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September 25, 2013
File: 190500014

Mr. Todd Caffoe, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road
Avon, NY 14414

RE: Enhanced Reductive Dechlorination
Progress Report
Ward Street Site, BCA Site No.: C828117
8-28 Ward Street Site, BCA Site No.: C828136
Rochester, New York

Dear Todd:

On behalf of Germanow-Simon Corporation (Germanow-Simon), and pursuant to the Department-approved Enhanced Reductive Dechlorination Supplemental Injection Plan and associated correspondence, Stantec Consulting Services Inc. (Stantec) has prepared this progress report to summarize ongoing results of the enhanced reductive dechlorination (ERD) remedial program implemented at the Ward Street Site (BCA Site #C828117) and the 8-28 Ward Street Site (BCA Site #C828136) in the City of Rochester, Monroe County, New York (Figure 1). The activities described herein were performed in accordance with the *Remedial Program Supplement, Enhanced Reductive Dechlorination Work Plan* dated March 2011 and the *Proposed Supplemental Injection Program* dated October 2012, and the Department's approval of these documents.

1. Groundwater Monitoring Program Results

Three rounds of quarterly groundwater sampling have been completed at well locations within the ERD treatment area to evaluate the progress of chlorinated solvent degradation following the November 2012 supplemental injection event. The most recent sampling event took place from July 2-5, 2013. Groundwater samples have been collected from select monitoring well locations and analyzed for dissolved chlorinated volatile organic compound (VOC) concentrations, dissolved metals (arsenic, iron, manganese, and sodium), total organic carbon (TOC), conductivity, pH, oxidation reduction potential (ORP), dissolved oxygen (DO) and microbial populations during some or all of the three events (dissolved metals and microbial populations were not analyzed during the July sampling event). A discussion of the data is provided below. Monitoring well locations are identified on Figure 2. Data from the sampling events conducted from September 2011 through July 2013 are summarized in Tables 9-3 and 9-7. Laboratory analysis reports associated with the ERD groundwater monitoring program are provided in Appendix A. Appendix B contains the groundwater sampling records.

Dissolved-Phase Chlorinated VOCs

Time series plots of chlorinated VOC concentrations over time are presented in Appendix C. For graphical purposes, all J values were plotted at the reported value and all non-detect values were plotted at the reportable detection limit.

VOC reduction continues to proceed very well within the treatment area. During the most recent sampling event conducted in July 2013, tetrachloroethylene (PCE) was below laboratory reporting levels in all 13 wells sampled and trichloroethylene (TCE) was reported below laboratory reporting levels in 11 of the 13 wells. In addition, cis-1,2-dichloroethylene (cis-1,2-DCE) concentrations declined or remained constant in 11 of the 13 wells, and VC concentrations remained constant or decreased in nine of the 13 wells. Total VOC concentrations decreased or remained constant in the July 2013 analytical results in nine of the 13 wells.

Seven of the wells sampled in July 2013 (MW-16, MW-23R, MW-200, MW-200R, MW-208, MW-209, and MW-212R) were reported with total VOC concentrations below 200 ppb.

Minor exceptions to the downward trends were observed at MW-23 and MW-207R, which exhibited increases in total VOC concentrations to 1,498 and 2,043 ppb, respectively. Concentrations of the chlorinated compounds of interest for the site, however, continued to decrease at MW-23 and MW-207R, with no detectable concentrations of PCE or TCE, and only cis-1,2-DCE (862 ppb and 193 ppb, respectively) and VC (636 ppb and 1,850 ppb, respectively) detected above laboratory reporting levels during the July 2013 sampling event. The observed increases in these dissolved-phase concentrations at MW-23 and MW-207R, involving the daughter products (cis-1,2-DCE and VC) of the degradation process, indicates that the remedial application is proceeding as expected in the treatment area.

The next groundwater sampling event is proposed for late September 2013/early October and is proposed to involve the same 13 wells for TCL VOCs using ASP Category B deliverables. The sampling results will be reviewed to confirm contaminant degradation is continuing to progress, such that the final sampling event involving the collection of approximately 9-10 soil borings can be performed and the groundwater monitoring program can be discontinued at the conclusion of the next event.

As stated in the *Enhanced Reductive Dechlorination Semi-Annual Progress Report* dated June 25, 2013, based on the significant VOC reduction achieved by application of the ERD process, Germanow-Simon is moving forward with efforts to decommission the multi-phase vacuum extraction (MPVE) system at this time. The decommissioning of the MPVE system is expected to be completed during the fall of 2013.

Total Organic Carbon, Sodium, Conductivity and Groundwater Geochemistry

In July 2013, ORP levels decreased or remained constant in ten of the 13 wells while DO levels remained similar to or decreased from the levels measured in April 2013. Groundwater ORP and DO levels were generally observed to decrease after the November 2012 injection and have remained low since that time. These results indicate that the desired anaerobic and reducing conditions have been reinforced by the November 2012 injection program and have persisted through July 2013. Tables 9-3 and 9-7 summarize the monitoring results for TOC, sodium, conductivity, and geochemistry parameters recorded to date for the ERD application at the site.

2. Proposed Groundwater Monitoring Activities

In accordance with the Final Engineering Reports and Site Management Plans for the Ward Street and 8-28 Ward Street sites, the *Remedial Program Supplement, Enhanced Reductive Dechlorination Work Plan* dated March 2011, the *Proposed Supplemental Injection Program* dated October 2012, and the Department's approval of these documents, it is proposed to conduct one final round of quarterly groundwater monitoring in order to confirm the effectiveness of the remedial activities at the sites as outlined in the following table.

Reference: Enhanced Reductive Dechlorination Semi-Annual Progress Report
Ward Street Site, BCA Site No. C828117
8-28 Ward Street Site, BCA Site No. C282136
Rochester, New York

Dates	Wells to be sampled during each event	Field parameters to be collected	Laboratory analytical parameters for all wells and all events
Late Sept. 2013	• MW-16 • MW-16R • MW-22 • MW-22R • MW-23 • MW-23R • MW-105 • MW-200 • MW-200R • MW-207R • MW-208 • MW-209 • MW-212R	• Temperature • pH • Specific conductivity • Turbidity • Dissolved oxygen • ORP	• TCL VOCs (by ASP Category B) • TOC (by Standard Method 5310) • Total Na (by USEPA Method 3005/6010)

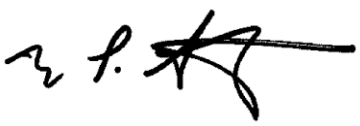
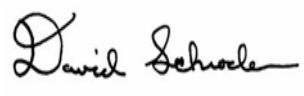
Quality Assurance/Quality Control procedures for VOCs will be in accordance with ASP Category B requirements including collection of a matrix spike, matrix spike duplicate, blind field duplicate and a trip blank. Groundwater samples will continue to be collected using low-flow/low-stress sampling procedures. Laboratory analysis will be conducted by Paradigm Environmental Services, Inc., of Rochester, NY.

Closing

On behalf of Germanow-Simon, Stantec looks forward to continuing to work with the Department to complete the quarterly groundwater monitoring phase of the remediation at the Ward Street Sites with the upcoming sampling event. Please do not hesitate to contact us should you have any questions regarding the information presented herein or the balance of the activities proposed for 2013.

Sincerely,

STANTEC CONSULTING SERVICES INC.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Reference: Enhanced Reductive Dechlorination Semi-Annual Progress Report
Ward Street Site, BCA Site No. C828117
8-28 Ward Street Site, BCA Site No. C282136
Rochester, New York

Attachments:

Figure 1 – Site Location Map
Figure 2 – Well Locations
Table 9-3 – Summary of Volatile Organic Compounds in Groundwater – September 2011 to July 2013
Table 9-7 – Summary of Field Parameters in Groundwater – September 2011 to July 2013
Appendix A – Laboratory Analysis Reports
Appendix B – Groundwater Sampling Records
Appendix C – Graphs of VOC Concentrations over time

ec. Bart Putzig, P.E. (NYSDEC)
John Frazer (MCDOH)
Mark Gregor (City of Rochester)
John Dole (Germanow-Simon)
Thomas F. Walsh (Hiscock & Barclay, LLP)

FIGURES

This map may contain data from a variety of sources. This map is not intended to replace a survey by a Licensed Surveyor. Stantec does not certify the accuracy of the data. This map is for reference only and should not be used for construction.

Cartographic Design By: Andy Less

Geographic Information Systems

Document Path: U:\1405205\docs\ERD\Figures\June 2013\Fig 1 Site Location Map.mxd

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Figure 1 - Site Location Map

Ward Street Sites
Rochester, NY

MW-213
MW-9R
MW-215
MW-20
MW-214
MW-9
MW-218
MW-216
MW-3
MW-217
MW-219
MW-19
MW-5
MW-32
GQ8/MW5
GQ1/MW1
MW-106
GQ2/MW2
MW-107
MW-46
MW-46R
Sub-Slab Depressurization System Piping
MW-200
MW-201
MW-105
MW-203
MW-200R
GQ3/MW3
Treatment Unit
MW-202
MW-203R
MW-45
MW-47
GQ4/MW4
MW-204R
MW-204
MW-205
MPVE Unit (50HP)
MW-212R
MW-212
MW-101
Manifold
MW-15
MW-22
MW-14
MW-205R
MW-22R
MW-208R
MW-210R
MW-210
MW-206R
MW-207R
MW-207
MW-208
MW-209
MW-23R
MW-23
MW-211
MW-16
MW-16R
MW-18
MW-211R

Legend

Monitoring and Extraction Wells

Well Type

- Extraction Well
- Monitoring Well
- As-Built Trenching Limits
- Existing MPVE System
- 8-28 Ward Street Site Property Line
- Ward Street Site Property Line
- Decommissioned Well as of 10/14/2011
- Extraction Well – Injected into as of 11/28/2012
- Extraction Well – Injected into as of 12/2/2011 and 11/28/2012
- Extraction Well – Injected into as of 12/2/2011

Geographic Information Systems

Cartographic Design By: Andrew Less

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0 5 10 20 30 40 Feet

1 inch = 30 feet

Figure 2 - Well Locations

Ward Street Sites
Rochester, NY

TABLES

Table 9-3

Summary of Volatile Organic Compounds in Groundwater – September 2011 to July 2013

GERMANOW-SIMON CORPORATION

PROGRESS REPORT NO. 9 – SEMI-ANNUAL REPORT – MPVE OM&M, WARD STREET SITE

ROCHESTER, NY

Area of Interest			**On-Site Area 1: Building B Annex**																												
Sample Location			**MW15**		**MW22**									**MW22R**								**MW105**								
Sample Date			**27-Sep-11**	**5-Jan-12**	**27-Sep-11**	**4-Jan-12**	**4-Jan-12**	**2-Feb-12**	**29-Feb-12**	**4-Jun-12**	**22-Jan-13**	**12-Apr-13**	**2-Jul-13**	**27-Sep-11**	**4-Jan-12**	**2-Feb-12**	**29-Feb-12**	**4-Jun-12**	**22-Jan-13**	**12-Apr-13**	**2-Jul-13**	**28-Sep-11**	**4-Jan-12**	**2-Feb-12**	**29-Feb-12**	**4-Jun-12**	**4-Sep-12**	**22-Jan-13**	**11-Apr-13**	**2-Jul-13**
Sample ID			**WSR-MW-15-GW-12**	**WSR-MW-15-GW-13**	**WSR-MW-22-GW-12**	**WSR-MW-22-GW-13**	**WSR-MW-DUP-GW-13**	**WSR-MW-22-GW-14**	**WSR-MW-22-GW-15**	**WSR-MW-22-GW-16**	**WSR-MW-22-GW**	**WSR-MW-22-GW**	**WSR-MW-22-GW**	**WSR-MW-22R-GW-12**	**WSR-MW-22R-GW-13**	**WSR-MW-22R-GW-14**	**WSR-MW-22R-GW-15**	**WSR-MW-22R-GW-16**	**WSR-MW-22R-GW**	**WSR-MW-22R-GW**	**WSR-MW-22R-GW**	**WSR-MW-105-GW-12**	**WSR-MW-105-GW-13**	**WSR-MW-105-GW-14**	**WSR-MW-105-GW-15**	**WSR-MW-105-GW-16**	**WSR-MW-105-GW-17**	**WSR-MW-105-GW**	**WSR-MW-105-GW**	**WSR-MW-105-GW**
Sampling Company			**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**
Laboratory			**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**
Laboratory Work Order			**P11-4090**	**P12-0069**	**P11-4090**	**P12-0041**	**P12-0041**	**12:0443**	**12:0868**	**12:2335**	**13:0329**	**131283**	**132471**	**P11-4090**	**P12-0041**	**12:0443**	**12:0868**	**12:2335**	**13:0329**	**131283**	**132471**	**P11-4106**	**P12-0041**	**12:0443**	**12:0868**	**12:2335**	**12:3644**	**13:0329**	**131259**	**132471**
Laboratory Sample ID			**14081**	**12:0069-04**	**14079**	**12:0041-03**	**12:0041-04**	**12:0443-03**	**12:0868-04**	**12:2335-02**	**130329-06**	**131283-03**	**132471-05**	**14080**	**12:0041-05**	**12:0443-04**	**12:0868-03**	**12:2335-03**	**130329-07**	**131283-02**	**132471-06**	**14152**	**12:0041-02**	**12:0443-02**	**12:0868-02**	**12:2335-05**	**12:3644-02**	**130329-05**	**131259-02**	**132471-02**
Sample Type	**Units**	**TOGS**					**Field Duplicate**																							
Volatile Organic Compounds																														
Acetone	µg/L	50^{A}	10.0 U	10.0 U	***500 U***	**238^{A}**	**223^{A}**	35.3 B	**181^{A}**	10.0 U	**150^{A}**	**118^{A}**	**95.8^{A}**	***500 U***	50.0 U	**333 B^{A}**	10.0 U	10.0 U	10 U	***100 U***	23.7	50.0 U	50.0 U	35.4 B	20.0 U	10.0 U	20.0 U	50 U	32.8	10.0 U
Benzene	µg/L	1^{B}	0.700 U	0.700 U	***35.0 U***	0.700 U	0.700 U	***1.75 U***	***1.40 U***	0.700 U	0.70 U	0.700 U	0.700 U	***35.0 U***	***3.50 U***	***3.50 U***	0.7 U	0.700 U	0.70 U	***7.00 U***	0.700 U	***3.50 U***	***3.50 U***	***1.75 U***	***1.40 U***	0.700 U	***1.40 U***	***3.5 U***	0.700 U	0.700 U
Bromobenzene	µg/L	5$_{**}^{B}$	-	-	-	-	-	-	-	-	5.0 U	5.00 U	-	-	-	-	-	-	5.0 U	***50.0 U***	-	-	-	-	-	-	-	***25 U***	5.00 U	-
Bromodichloromethane	µg/L	50^{A}	2.00 U	2.00 U	***100 U***	2.00 U	2.00 U	5.00 U	4.00 U	2.00 U	2.0 U	2.00 U	2.00 U	***100 U***	10.0 U	10.0 U	2.00 U	2.00 U	2.0 U	20.0 U	2.00 U	10.0 U	10.0 U	5.00 U	4.00 U	2.00 U	4.00 U	10 U	2.00 U	2.00 U
Bromoform (Tribromomethane)	µg/L	50^{A}	5.00 U	5.00 U	***250 U***	5.00 U	5.00 U	12.5 U	10.0 U	5.00 U	5.0 U	5.00 U	5.00 U	***250 U***	25.0 U	25.0 U	5.00 U	5.00 U	5.0 U	50.0 U	5.00 U	25.0 U	25.0 U	12.5 U	10.0 U	5.00 U	10.0 U	25 U	5.00 U	5.00 U
Bromomethane (Methyl bromide)	µg/L	5$_{**}^{B}$	2.00 U	2.00 U	***100 U***	2.00 U	2.00 U	5.00 U	4.00 U	2.00 U	2.0 U	2.00 U	2.00 U	***100 U***	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.0 U	***20.0 U***	2.00 U	***10.0 U***	***10.0 U***	5.00 U	4.00 U	2.00 U	4.00 U	***10 U***	2.00 U	2.00 U
Butylbenzene, n-	µg/L	5$_{**}^{B}$	5.00 U	5.00 U	***250 U***	5.00 U	5.00 U	***12.5 U***	4.00 U	2.00 U	-	-	-	***250 U***	***25.0 U***	***25.0 U***	2.00 U	2.00 U	-	-	-	***25.0 U***	***25.0 U***	***12.5 U***	4.00 U	2.00 U	-	-	-	-
Butylbenzene, sec- (2-Phenylbutane)	µg/L	5$_{**}^{B}$	5.00 U	5.00 U	***250 U***	5.00 U	5.00 U	***12.5 U***	4.00 U	2.00 U	-	-	-	***250 U***	***25.0 U***	***25.0 U***	2.00 U	2.00 U	-	-	-	***25.0 U***	***25.0 U***	***12.5 U***	4.00 U	2.00 U	-	-	-	-
Butylbenzene, tert-	µg/L	5$_{**}^{B}$	5.00 U	5.00 U	***250 U***	5.00 U	5.00 U	***12.5 U***	4.00 U	2.00 U	-	-	-	***250 U***	***25.0 U***	***25.0 U***	2.00 U	2.00 U	-	-	-	***25.0 U***	***25.0 U***	***12.5 U***	4.00 U	2.00 U	-	-	-	-
Carbon Disulfide	µg/L	60^{A}	5.00 U	5.00 U	***250 U***	5.00 U	5.00 U	12.5 U	4.00 U	2.00 U	2.0 U	2.00 U	2.00 U	***250 U***	25.0 U	25.0 U	2.00 U	2.00 U	2.0 U	20.0 U	2.00 U	25.0 U	25.0 U	12.5 U	4.00 U	2.00 U	4.00 U	10 U	2.00 U	2.00 U
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5^{B}	2.00 U	2.00 U	***100 U***	2.00 U	2.00 U	5.00 U	4.00 U	2.00 U	2.0 U	2.00 U	2.00 U	***100 U***	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.0 U	***20.0 U***	2.00 U	***10.0 U***	***10.0 U***	5.00 U	4.00 U	2.00 U	4.00 U	***10 U***	2.00 U	2.00 U
Chlorobenzene (Monochlorobenzene)	µg/L	5$_{**}^{B}$	2.00 U	2.00 U	***100 U***	2.00 U	2.00 U	5.00 U	4.00 U	2.00 U	2.0 U	2.00 U	2.00 U	***100 U***	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.0 U	***20.0 U***	2.00 U	***10.0 U***	***10.0 U***	5.00 U	4.00 U	2.00 U	4.00 U	***10 U***	2.00 U	2.00 U
Chlorobromomethane	µg/L	5$_{**}^{B}$	5.00 U	5.00 U	***250 U***	5.00 U	5.00 U	***12.5 U***	***10.0 U***	5.00 U	5.0 U	5.00 U	5.00 U	***250 U***	***25.0 U***	***25.0 U***	5.00 U	5.00 U	5.0 U	***50.0 U***	5.00 U	***25.0 U***	***25.0 U***	***12.5 U***	***10.0 U***	5.00 U	-	***25 U***	5.00 U	5.00 U
Chloroethane (Ethyl Chloride)	µg/L	5$_{**}^{B}$	2.00 U	2.00 U	***100 U***	2.00 U	2.00 U	5.00 U	4.00 U	2.00 U	2.0 U	2.00 U	2.00 U	***100 U***	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.0 U	***20.0 U***	2.00 U	***10.0 U***	***10.0 U***	5.00 U	4.00 U	2.00 U	4.00 U	***10 U***	2.00 U	2.00 U
Chloroethyl Vinyl Ether, 2-	µg/L	n/v	-	-	-	-	-	-	-	-	10 U	10.0 U	-	-	-	-	-	-	10 U	100 U	-	-	-	-	-	-	20.0 U	50 U	10.0 U	-
Chloroform (Trichloromethane)	µg/L	7^{B}	2.00 U	2.00 U	***100 U***	5.86	5.64	5.00 U	4.00 U	2.00 U	2.3	2.00 U	2.00 U	***100 U***	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.0 U	***20.0 U***	2.00 U	***10.0 U***	***10.0 U***	5.00 U	4.00 U	2.00 U	4.00 U	***10 U***	2.00 U	2.00 U
Chloromethane	µg/L	5$_{**}^{B}$	2.00 U	2.00 U	***100 U***	2.00 U	2.00 U	5.00 U	4.00 U	2.00 U	2.0 U	2.00 U	2.00 U	***100 U***	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.0 U	***20.0 U***	2.00 U	***10.0 U***	***10.0 U***	5.00 U	4.00 U	2.00 U	4.00 U	***10 U***	2.00 U	2.00 U
Cyclohexane	µg/L	n/v	10.0 U	10.0 U	500 U	10.0 U	10.0 U	25.0 U	20.0 U	10.0 U	10 U	10.0 U	10.0 U	500 U	50.0 U	50.0 U	10.0 U	10.0 U	10 U	100 U	10.0 U	50.0 U	50.0 U	25.0 U	20.0 U	10.0 U	-	50 U	10.0 U	10.0 U
Dibromo-3-Chloropropane, 1,2- (DBCP)	µg/L	0.04^{B}	***10.0 U***	***10.0 U***	***500 U***	***10.0 U***	***10.0 U***	***25.0 U***	***20.0 U***	***10.0 U***	***10 U***	***10.0 U***	***10.0 U***	***500 U***	***50.0 U***	***50.0 U***	***10.0 U***	***10.0 U***	***10 U***	***100 U***	***10.0 U***	***50.0 U***	***50.0 U***	***25.0 U***	***20.0 U***	***10.0 U***	-	***50 U***	***10.0 U***	***10.0 U***
Dibromochloromethane	µg/L	50^{A}	2.00 U	2.00 U	***100 U***	2.00 U	2.00 U	5.00 U	4.00 U	2.00 U	2.0 U	2.00 U	2.00 U	***100 U***	10.0 U	10.0 U	2.00 U	2.00 U	2.0 U	20.0 U	2.00 U	10.0 U	10.0 U	5.00 U	4.00 U	2.00 U	4.00 U	10 U	2.00 U	2.00 U
Dichlorobenzene, 1,2-	µg/L	3^{B}	2.00 U	2.00 U	***100 U***	2.00 U	2.00 U	***5.00 U***	***4.00 U***	2.00 U	2.0 U	2.00 U	2.00 U	***100 U***	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.0 U	***20.0 U***	2.00 U	***10.0 U***	***10.0 U***	***5.00 U***	***4.00 U***	2.00 U	***4.00 U***	***10 U***	2.00 U	2.00 U
Dichlorobenzene, 1,3-	µg/L	3^{B}	2.00 U	2.00 U	***100 U***	2.00 U	2.00 U	***5.00 U***	***4.00 U***	2.00 U	2.0 U	2.00 U	2.00 U	***100 U***	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.0 U	***20.0 U***	2.00 U	***10.0 U***	***10.0 U***	***5.00 U***	***4.00 U***	2.00 U	***4.00 U***	***10 U***	2.00 U	2.00 U
Dichlorobenzene, 1,4-	µg/L	3^{B}	2.00 U	2.00 U	***100 U***	2.00 U	2.00 U	***5.00 U***	***4.00 U***	2.00 U	2.0 U	2.00 U	2.00 U	***100 U***	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.0 U	***20.0 U***	2.00 U	***10.0 U***	***10.0 U***	***5.00 U***	***4.00 U***	2.00 U	***4.00 U***	***10 U***	2.00 U	2.00 U
Dichlorodifluoromethane (Freon 12)	µg/L	5$_{**}^{B}$	5.00 U	5.00 U	***250 U***	5.00 U	5.00 U	***12.5 U***	4.00 U	2.00 U	2.0 U	2.00 U	2.00 U	***250 U***	***25.0 U***	***25.0 U***	2.00 U	2.00 U	2.0 U	***20.0 U***	2.00 U	***25.0 U***	***25.0 U***	***12.5 U***	4.00 U	2.00 U	-	***10 U***	2.00 U	2.00 U
Dichloroethane, 1,1-	µg/L	5$_{**}^{B}$	2.00 U	2.00 U	***100 U***	2.00 U	2.00 U	5.00 U	4.00 U	2.00 U	2.0 U	2.00 U	2.00 U	***100 U***	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.0 U	***20.0 U***	2.00 U	***10.0 U***	***10.0 U***	5.00 U	4.00 U	2.00 U	4.00 U	***10 U***	2.00 U	2.00 U
Dichloroethane, 1,2-	µg/L	0.6^{B}	***2.00 U***	***2.00 U***	***100 U***	***2.00 U***	***2.00 U***	***5.00 U***	***4.00 U***	***2.00 U***	***2.0 U***	***2.00 U***	***2.00 U***	***100 U***	***10.0 U***	***10.0 U***	***2.00 U***	***2.00 U***	***2.0 U***	***20.0 U***	***2.00 U***	***10.0 U***	***10.0 U***	***5.00 U***	***4.00 U***	***2.00 U***	***4.00 U***	***10 U***	***2.00 U***	***2.00 U***
Dichloroethene, 1,1-	µg/L	5$_{**}^{B}$	2.00 U	2.00 U	***100 U***	2.00 U	2.00 U	5.00 U	4.00 U	2.00 U	2.0 U	2.00 U	2.00 U	***100 U***	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.0 U	***20.0 U***	2.00 U	***10.0 U***	***10.0 U***	5.00 U	4.00 U	2.00 U	4.00 U	***10 U***	2.00 U	2.00 U
Dichloroethylene, cis-1,2-	µg/L	5$_{**}^{B}$	2.00 U	2.00 U	**1390^{B}**	**134^{B}**	**138^{B}**	**229^{B}**	**205^{B}**	**21.8^{B}**	**38^{B}**	3.80	**7.43^{B}**	**883^{B}**	**439^{B}**	**657^{B}**	**99.7^{B}**	**107^{B}**	**17^{B}**	***20.0 U***	**16.6^{B}**	**480^{B}**	**179^{B}**	**220^{B}**	**155^{B}**	**81.9^{B}**	**145^{B}**	**210^{B}**	**159^{B}**	**83.6^{B}**
Dichloroethylene, trans-1,2-	µg/L	5$_{**}^{B}$	2.00 U	2.00 U	***100 U***	2.14	2.22	**9.52^{B}**	4.60	**5.52^{B}**	4.2	4.36	3.31	***100 U***	***10.0 U***	***10.0 U***	**11.0^{B}**	**6.97^{B}**	**16^{B}**	***20.0 U***	**18.7^{B}**	**358^{B}**	**134^{B}**	**183^{B}**	**120^{B}**	**59.0^{B}**	**115^{B}**	**120^{B}**	**83.6^{B}**	**86.4^{B}**
Dichloropropane, 1,2-	µg/L	1^{B}	***2.00 U***	***2.00 U***	***100 U***	***2.00 U***	***2.00 U***	***5.00 U***	***4.00 U***	***2.00 U***	-	-	***2.00 U***	***100 U***	***10.0 U***	***10.0 U***	***2.00 U***	***2.00 U***	-	-	***2.00 U***	***10.0 U***	***10.0 U***	***5.00 U***	***4.00 U***	***2.00 U***	***4.00 U***	-	-	***2.00 U***
Dichloropropane, 1,3-	µg/L	5$_{**}^{B}$	-	-	-	-	-	-	-	-	2.0 U	2.00 U	-	-	-	-	-	-	2.0 U	***20.0 U***	-	-	-	-	-	-	-	***10 U***	2.00 U	-
Dichloropropane, 2,2-	µg/L	5$_{**}^{B}$	-	-	-	-	-	-	-	-	2.0 U	2.00 U	-	-	-	-	-	-	2.0 U	***20.0 U***	-	-	-	-	-	-	-	***10 U***	2.00 U	-
Dichloropropene, cis-1,3-	µg/L	0.4$_{p}^{B}$	***2.00 U***	***2.00 U***	***100 U***	***2.00 U***	***2.00 U***	***5.00 U***	***4.00 U***	***2.00 U***	-	-	***2.00 U***	***100 U***	***10.0 U***	***10.0 U***	***2.00 U***	***2.00 U***	-	-	***2.00 U***	***10.0 U***	***10.0 U***	***5.00 U***	***4.00 U***	***2.00 U***	***4.00 U***	-	-	***2.00 U***
Dichloropropene, trans-1,3-	µg/L	0.4$_{p}^{B}$	***2.00 U***	***2.00 U***	***100 U***	***2.00 U***	***2.00 U***	***5.00 U***	***4.00 U***	***2.00 U***	***2.0 U***	***2.00 U***	***2.00 U***	***100 U***	***10.0 U***	***10.0 U***	***2.00 U***	***2.00 U***	***2.0 U***	***20.0 U***	***2.00 U***	***10.0 U***	***10.0 U***	***5.00 U***	***4.00 U***	***2.00 U***	***4.00 U***	***10 U***	***2.00 U***	***2.00 U***
Dioxane, 1,4-	µg/L	n/v	-	-	-	-	-	-	-	-	20 U	20.0 U	20.0 U	-	-	-	-	-	20 U	200 U	20.0 U	-	-	-	-	-	-	100 U	20.0 U	20.0 U
Ethylbenzene	µg/L	5$_{**}^{B}$	2.00 U	2.00 U	***100 U***	2.00 U	2.00 U	5.00 U	4.00 U	2.00 U	2.0 U	2.00 U	2.00 U	***100 U***	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.0 U	***20.0 U***	2.00 U	***10.0 U***	***10.0 U***	5.00 U	4.00 U	2.00 U	4.00 U	***10 U***	2.00 U	2.00 U
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.0006^{B}	***2.00 U***	***2.00 U***	***100 U***	***2.00 U***	***2.00 U***	***5.00 U***	***4.00 U***	***2.00 U***	***2.0 U***	***2.00 U***	***2.00 U***	***100 U***	***10.0 U***	***10.0 U***	***2.00 U***	***2.00 U***	***2.0 U***	***20.0 U***	***2.00 U***	***10.0 U***	***10.0 U***	***5.00 U***	***4.00 U***	***2.00 U***	-	***10 U***	***2.00 U***	***2.00 U***
Hexanone, 2- (Methyl Butyl Ketone)	µg/L	50^{A}	5.00 U	5.00 U	***250 U***	36.3	36.4	12.5 U	30.0	5.00 U	8.5	6.50	5.00 U	***250 U***	25.0 U	27	5.00 U	5.00 U	5.0 U	50.0 U	5.00 U	25.0 U	25.0 U	12.5 U	10.0 U	5.00 U	10.0 U	25 U	5.00 U	5.00 U
Isopropylbenzene	µg/L	5$_{**}^{B}$	5.00 U	5.00 U	***250 U***	5.00 U	5.00 U	***12.5 U***	4.00 U	2.00 U	-	2.00 U	2.00 U	***250 U***	***25.0 U***	***25.0 U***	2.00 U	2.00 U	-	***20.0 U***	2.00 U	***25.0 U***	***25.0 U***	***12.5 U***	4.00 U	2.00 U	-	-	2.00 U	2.00 U
Isopropyltoluene, p- (Cymene)	µg/L	5$_{**}^{B}$	2.00 U	2.00 U	***100 U***	2.00 U	2.00 U	5.00 U	4.00 U	2.00 U	-	-	-	***100 U***	***10.0 U***	***10.0 U***	2.00 U	2.00 U	-	-	-	***10.0 U***	***10.0 U***	5.00 U	4.00 U	2.00 U	-	-	-	-
Methyl Acetate	µg/L	n/v	2.00 U	2.00 U	100 U	2.00 U	2.00 U	5.00 U	4.00 U	2.00 U	2.0 U	2.00 U	2.00 U	100 U	10.0 U	18.4	2.00 U	8.61	2.0 U	20.0 U	2.00 U	10.0 U	10.0 U	5.00 U	4.00 U	2.00 U	-	10 U	2.00 U	2.00 U
Methyl Ethyl Ketone (MEK)	µg/L	50^{A}	10.0 U	10.0 U	***500 U***	**180^{A}**	**174^{A}**	25.0 U	**135^{A}**	10.0 U	**200^{A}**	**118^{A}**	**96.2^{A}**	***500 U***	**76.0^{A}**	**206^{A}**	**95.5^{A}**	10.0 U	**160^{A}**	**302^{A}**	**195^{A}**	50.0 U	50.0 U	25.0 U	20.0 U	10.0 U	20.0 U	**110^{A}**	32.2	10.0 U
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	5.00 U	5.00 U	250 U	12.9	13.5	12.5 U	27.8	38.6	15	15.9	12.7	250 U	25.0 U	25.0 U	5.00 U	5.00 U	5.0 U	50.0 U	5.00 U	25.0 U	25.0 U	12.5 U	10.0 U	5.00 U	10.0 U	25 U	5.00 U	5.00 U
Methyl tert-butyl ether (MTBE)	µg/L	10^{A}	2.00 U	2.00 U	***100 U***	2.00 U	2.00 U	5.00 U	4.00 U	2.00 U	2.0 U	2.00 U	2.00 U	***100 U***	10.0 U	10.0 U	2.00 U	2.00 U	2.0 U	***20.0 U***	2.00 U	10.0 U	10.0 U	5.00 U	4.00 U	2.00 U	-	10 U	2.00 U	2.00 U
Methylcyclohexane	µg/L	n/v	2.00 U	2.00 U	100 U	2.00 U	2.00 U	5.00 U	4.00 U	2.00 U	2.0 U	2.00 U	2.00 U	100 U	10.0 U	10.0 U	2.00 U	2.00 U	2.0 U	20.0 U	2.00 U	10.0 U	10.0 U	5.00 U	4.00 U	2.00 U	-	10 U	2.00 U	2.00 U
Methylene Chloride (Dichloromethane)	µg/L	5$_{**}^{B}$	5.00 U	5.00 U	***250 U***	5.00 U	5.00 U	***12.5 U***	***10.0 U***	5.00 U	5.0 U	5.00 U	5.00 U	***250 U***	***25.0 U***	***25.0 U***	5.00 U	5.00 U	5.0 U	***50.0 U***	5.00 U	***25.0 U***	***25.0 U***	***12.5 U***	***10.0 U***	5.00 U	***10.0 U***	***25 U***	5.00 U	5.00 U
Naphthalene	µg/L	10^{B}	5.00 U	5.00 U	***250 U***	5.00 U	5.00 U	***12.5 U***	10.0 U	5.00 U	-	-	-	***250 U***	***25.0 U***	***25.0 U***	5.00 U	5.00 U	-	-	-	***25.0 U***	***25.0 U***	***12.5 U***	10.0 U	5.00 U	-	-	-	-
Propylbenzene, n-	µg/L	5$_{**}^{B}$	5.00 U	5.00 U	***250 U***	5.00 U	5.00 U	***12.5 U***	4.00 U	2.00 U	-	-	-	***250 U***	***25.0 U***	***25.0 U***	2.00 U	2.00 U	-	-	-	***25.0 U***	***25.0 U***	***12.5 U***	4.00 U	2.00 U	-	-	-	-
Styrene	µg/L	5$_{**}^{B}$	5.00 U	5.00 U	***250 U***	5.00 U	5.00 U	***12.5 U***	***10.0 U***	5.00 U	5.0 U	5.00 U	5.00 U	***250 U***	***25.0 U***	***25.0 U***	5.00 U	5.00 U	5.0 U	***50.0 U***	5.00 U	***25.0 U***	***25.0 U***	***12.5 U***	***10.0 U***	5.00 U	***10.0 U***	***25 U***	5.00 U	5.00 U
Tetrachloroethane, 1,1,2,2-	µg/L	5$_{**}^{B}$	2.00 U	2.00 U	***100 U***	2.00 U	2.00 U	5.00 U	4.00 U	2.00 U	2.0 U	2.00 U	2.00 U	***100 U***	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.0 U	***20.0 U***	2.00 U	***10.0 U***	***10.0 U***	5.00 U	4.00 U	2.00 U	4.00 U	***10 U***	2.00 U	2.00 U
Tetrachloroethylene (PCE)	µg/L	5$_{**}^{B}$	2.00 U	2.00 U	***100 U***	**7.02^{B}**	**7.22^{B}**	5.00 U	4.00 U	2.00 U	2.1	2.00 U	2.00 U	***100 U***	**45.5^{B}**	***10.0 U***	2.00 U	2.00 U	2.0 U	***20.0 U***	2.00 U	***10.0 U***	***10.0 U***	**6.71^{B}**	4.92	**5.21^{B}**	**5.59^{B}**	***10 U***	2.00 U	2.00 U
Toluene	µg/L	5$_{**}^{B}$	2.00 U	2.00 U	***100 U***	2.00 U	2.00 U	5.00 U	4.00 U	2.00 U	2.0 U	2.00 U	2.00 U	***100 U***	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.0 U	***20.0 U***	2.00 U	***10.0 U***	***10.0 U***	5.00 U	4.00 U	2.00 U	4.00 U	***10 U***	2.00 U	2.00 U
Trichlorobenzene, 1,2,3-	µg/L	5$_{**}^{B}$	5.00 U	5.00 U	***250 U***	5.00 U	5.00 U	***12.5 U***	***10.0 U***	5.00 U	5.0 U	5.00 U	5.00 U	***250 U***	***25.0 U***	***25.0 U***	5.00 U	5.00 U	5.0 U	***50.0 U***	5.00 U	***25.0 U***	***25.0 U***	***12.5 U***	***10.0 U***	5.00 U	-	***25 U***	5.00 U	5.00 U
Trichlorobenzene, 1,2,4-	µg/L	5$_{**}^{B}$	5.00 U	5.00 U	***250 U***	5.00 U	5.00 U	***12.5 U***	***10.0 U***	5.00 U	5.0 U	5.00 U	5.00 U	***250 U***	***25.0 U***	***25.0 U***	5.00 U	5.00 U	5.0 U	***50.0 U***	5.00 U	***25.0 U***	***25.0 U***	***12.5 U***	***10.0 U***	5.00 U	-	***25 U***	5.00 U	5.00 U
Trichloroethane, 1,1,1-	µg/L	5$_{**}^{B}$	2.00 U	2.00 U	***100 U***	2.00 U	2.00 U	5.00 U	4.00 U	2.00 U	2.0 U	2.00 U	2.00 U	***100 U***	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.0 U	***20.0 U***	2.00 U	***10.0 U***	***10.0 U***	5.00 U	4.00 U	2.00 U	4.00 U	***10 U***	2.00 U	2.00 U
Trichloroethane, 1,1,2-	µg/L	1^{B}	***2.00 U***	***2.00 U***	***100 U***	***2.00 U***	***2.00 U***	***5.00 U***	***4.00 U***	***2.00 U***	***2.0 U***	***2.00 U***	***2.00 U***	***100 U***	***10.0 U***	***10.0 U***	***2.00 U***	***2.00 U***	***2.0 U***	***20.0 U***	***2.00 U***	***10.0 U***	***10.0 U***	***5.00 U***	***4.00 U***	***2.00 U***	***4.00 U***	***10 U***	***2.00 U***	***2.00 U***
Trichloroethylene (TCE)	µg/L	5$_{**}^{B}$	2.00 U	2.00 U	***100 U***	**23.7^{B}**	**23.9^{B}**	**5.05^{B}**	**13.7^{B}**	**8.54^{B}**	**13^{B}**	2.00 U	2.00 U	***100 U***	**32.2^{B}**	**87.9^{B}**	2.00 U	2.58	2.7	***20.0 U***	2.00 U	**431^{B}**	**221^{B}**	**264^{B}**	**200^{B}**	**139^{B}**	**229^{B}**	**230^{B}**	**13.9^{B}**	**20.3^{B}**
Trichlorofluoromethane (Freon 11)	µg/L	5$_{**}^{B}$	2.00 U	2.00 U	***100 U***	2.00 U	2.00 U	5.00 U	4.00 U	2.00 U	2.0 U	2.00 U	2.00 U	***100 U***	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.0 U	***20.0 U***	2.00 U	***10.0 U***	***10.0 U***	5.00 U	4.00 U	2.00 U	4.00 U	***10 U***	2.00 U	2.00 U
Trichlorotrifluoroethane (Freon 113)	µg/L	5$_{**}^{B}$	2.00 U	2.00 U	***100 U***	2.00 U	2.00 U	5.00 U	4.00 U	2.00 U	2.0 U	2.00 U	2.00 U	***100 U***	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.0 U	***20.0 U***	2.00 U	***10.0 U***	***10.0 U***	5.00 U	4.00 U	2.00 U	-	***10 U***	2.00 U	2.00 U
Trimethylbenzene, 1,2,4-	µg/L	5$_{**}^{B}$	5.00 U	5.00 U	***250 U***	5.00 U	5.00 U	***12.5 U***	4.00 U	2.00 U	-	-	-	***250 U***	***25.0 U***	***25.0 U***	2.00 U	2.00 U	-	-	-	***25.0 U***	***25.0 U***	***12.5 U***	4.00 U	2.00 U	-	-	-	-
Trimethylbenzene, 1,3,5-	µg/L	5$_{**}^{B}$	5.00 U	5.00 U	***250 U***	5.00 U	5.00 U	***12.5 U***	4.00 U	2.00 U	-	-	-	***250 U***	***25.0 U***	***25.0 U***	2.00 U	2.00 U	-	-	-	***25.0 U***	***25.0 U***	***12.5 U***	4.00 U	2.00 U	-	-	-	-
Vinyl Acetate	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.0 U	-	-	-
Vinyl chloride	µg/L	2^{B}	2.00 U	2.00 U	**303^{B}**	**16.2^{B}**	**16.0^{B}**	**73.3^{B}**	**241^{B}**	**40.9^{B}**	**31^{B}**	**2.27^{B}**	**3.49^{B}**	**133^{B}**	**14.6^{B}**	**354^{B}**	**49.8^{B}**	**52.2^{B}**	**37^{B}**	**24.9^{B}**	**26.3^{B}**	***10.0 U***	***10.0 U***	***5.00 U***	***4.00 U***	2.00 U	***4.00 U***	***10 U***	**23.6^{B}**	**18.8^{B}**
Xylene, m & p-	µg/L	5$_{**}^{B}$	2.00 U	2.00 U	***100 U***	2.00 U	2.00 U	5.00 U	4.00 U	2.00 U	2.0 U	2.00 U	2.00 U	***100 U***	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.0 U	***20.0 U***	2.00 U	***10.0 U***	***10.0 U***	5.00 U	4.00 U	2.00 U	4.00 U	***10 U***	2.00 U	2.00 U
Xylene, o-	µg/L	5$_{**}^{B}$	2.00 U	2.00 U	***100 U***	2.00 U	2.00 U	5.00 U	4.00 U	2.00 U	2.0 U	2.00 U	2.00 U	***100 U***	***10.0 U***	***10.0 U***	2.00 U	2.00 U	2.0 U	***20.0 U***	2.00 U	***10.0 U***	***10.0 U***	5.00 U	4.00 U	2.00 U	4.00 U	***10 U***	2.00 U	2.00 U
Total VOC	µg/L	n/v	ND	ND	1693	656.12	639.88	352.17	838.1	115.36	464.1	268.83	218.93	1016	607.3	1683.3	256	177.36	232.7	326.9	280.3	1269	534	709.11	479.92	285.11	494.59	670	345.1	209.1
Miscellaneous Parameters																														
Arsenic	mg/L	0.025^{B}	0.010 U	0.010 U	0.013	0.010 U	0.010 U	**0.040^{B}**	**0.139^{B}**	**0.071^{B}**	-	0.0100 U	-	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	-	0.0100 U	-	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	-	-	0.0194	-
Iron	mg/L	0.3$_{*}^{B}$	0.100 U	0.100 U	**23.6^{B}**	**1.23^{B}**	**1.45^{B}**	**4.41^{B}**	0.100 U	**0.584^{B}**	-	0.136	-	**3.14^{B}**	0.100 U	0.159	0.225	**2.32^{B}**	-	0.256	-	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	-	-	**3.91^{B} L**	-
Manganese	mg/L	0.3$_{*}^{B}$	0.060	**0.459^{B}**	**1.35^{B}**	**1.00^{B}**	**1.02^{B}**	**0.527^{B}**	0.222	**0.343^{B}**	-	0.135	-	0.096	0.127	0.097	0.099	0.125	-	0.106	-	0.092	0.021	0.033	0.041	0.015 U	-	-	0.0860 L	-
Sodium	mg/L	20^{B}	**191^{B}**	**181^{B}**	**543^{B}**	**843^{B}**	**825^{B}**	**690^{B}**	**532^{B}**	**471^{B}**	**1100^{B}**	**991^{B}**	**967^{B}**	**425^{B}**	**548^{B}**	**497^{B}**	**496^{B}**	**434^{B}**	**1300^{B}**	**900^{B}**	**875^{B}**	**318^{B}**	**346^{B}**	**352^{B}**	**342^{B}**	**356^{B}**	**361^{B}**	**1100^{B}**	**302^{B}**	**456^{B}**
Total Organic Carbon	mg/L	n/v	18.7	15.2	60.2	687	697	255	172	195	1000	681	430	9.2	322	39.6	17.3	68.8	1400	667	370	3.2	3	3.2	2.9	3.3	3.2	1200	164	12.0

See last page for notes.

Table 9-3
Summary of Volatile Organic Compounds in Groundwater – September 2011 to July 2013
GERMANOW-SIMON CORPORATION
PROGRESS REPORT NO. 9 – SEMI-ANNUAL REPORT – MPVE OM&M, WARD STREET SITE
ROCHESTER, NY

Area of Interest			On-Site Area 1: Building B Annex								
Sample Location			MW200								
Sample Date			28-Sep-11	3-Feb-12	3-Feb-12	1-Mar-12	6-Jun-12	22-Jan-13	22-Jan-13	10-Apr-13	2-Jul-13
Sample ID			WSR-MW-200-GW-18	WSR-MW-200-GW-19	WSR-MW-DUP-GW-19	WSR-MW-200-GW-20	WSR-MW-200-GW-21	WSR-MW-200-GW	WSR-MW-DUP-GW	WSR-MW-200-GW	WSR-MW-200-GW
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order			P11-4106	12:0472	12:0472	12:0906	12:2392	13:0329	13:0329	131242	132471
Laboratory Sample ID			14154	12:0472-02	12:0472-03	12:0906-02	12:2392-02	130329-02	130329-03	131242-05	132471-04
Sample Type	Units	TOGS			Field Duplicate				Field Duplicate		
Volatile Organic Compounds											
Acetone	µg/L	50^{A}	50.0 U	100 U	100 U	100 U	11.4	10 U	10 U	10.0 U	10.0 U
Benzene	µg/L	1^{B}	3.50 U	7.00 U	7.00 U	7.00 U	0.700 U	0.70 U	0.70 U	0.700 U	0.700 U
Bromobenzene	µg/L	5_{**}^{B}	-	-	-	-	-	5.0 U	5.0 U	5.00 U	-
Bromodichloromethane	µg/L	50^{A}	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.00 U
Bromoform (Tribromomethane)	µg/L	50^{A}	25.0 U	50.0 U	50.0 U	50.0 U	5.00 U	5.0 U	5.0 U	5.00 U	5.00 U
Bromomethane (Methyl bromide)	µg/L	5_{**}^{B}	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.00 U
Butylbenzene, n-	µg/L	5_{**}^{B}	25.0 U	20.0 U	20.0 U	20.0 U	2.00 U	-	-	-	-
Butylbenzene, sec- (2-Phenylbutane)	µg/L	5_{**}^{B}	25.0 U	20.0 U	20.0 U	20.0 U	2.00 U	-	-	-	-
Butylbenzene, tert-	µg/L	5_{**}^{B}	25.0 U	20.0 U	20.0 U	20.0 U	2.00 U	-	-	-	-
Carbon Disulfide	µg/L	60^{A}	25.0 U	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.00 U
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5^{B}	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.00 U
Chlorobenzene (Monochlorobenzene)	µg/L	5_{**}^{B}	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.00 U
Chlorobromomethane	µg/L	5_{**}^{B}	25.0 U	50.0 U	50.0 U	50.0 U	5.00 U	5.0 U	5.0 U	5.00 U	5.00 U
Chloroethane (Ethyl Chloride)	µg/L	5_{**}^{B}	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.00 U
Chloroethyl Vinyl Ether, 2-	µg/L	n/v	-	-	-	-	-	10 U	10 U	10.0 U	-
Chloroform (Trichloromethane)	µg/L	7^{B}	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.00 U
Chloromethane	µg/L	5_{**}^{B}	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.00 U
Cyclohexane	µg/L	n/v	50.0 U	100 U	100 U	100 U	10.0 U	10 U	10 U	10.0 U	10.0 U
Dibromo-3-Chloropropane, 1,2- (DBCP)	µg/L	0.04^{B}	50.0 U	100 U	100 U	100 U	10.0 U	10 U	10 U	10.0 U	10.0 U
Dibromochloromethane	µg/L	50^{A}	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.00 U
Dichlorobenzene, 1,2-	µg/L	3^{B}	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.00 U
Dichlorobenzene, 1,3-	µg/L	3^{B}	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.00 U
Dichlorobenzene, 1,4-	µg/L	3^{B}	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.00 U
Dichlorodifluoromethane (Freon 12)	µg/L	5_{**}^{B}	25.0 U	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.00 U
Dichloroethane, 1,1-	µg/L	5_{**}^{B}	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.00 U
Dichloroethane, 1,2-	µg/L	0.6^{B}	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.00 U
Dichloroethene, 1,1-	µg/L	5_{**}^{B}	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.00 U
Dichloroethylene, cis-1,2-	µg/L	5_{**}^{B}	1070^{B}	1920^{B}	2130^{B}	476^{B}	19.1^{B}	2.8	2.8	5.84^{B}	5.26^{B}
Dichloroethylene, trans-1,2-	µg/L	5_{**}^{B}	14.0^{B}	20.0 U	20.0 U	20.0 U	4.49	2.9	3.1	2.00 U	2.00 U
Dichloropropane, 1,2-	µg/L	1^{B}	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	-	-	-	2.00 U
Dichloropropane, 1,3-	µg/L	5_{**}^{B}	-	-	-	-	-	2.0 U	2.0 U	2.00 U	-
Dichloropropane, 2,2-	µg/L	5_{**}^{B}	-	-	-	-	-	2.0 U	2.0 U	2.00 U	-
Dichloropropene, cis-1,3-	µg/L	0.4_{p}^{B}	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	-	-	-	2.00 U
Dichloropropene, trans-1,3-	µg/L	0.4_{p}^{B}	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.00 U
Dioxane, 1,4-	µg/L	n/v	-	-	-	-	-	20 U	20 U	20.0 U	20.0 U
Ethylbenzene	µg/L	5_{**}^{B}	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.00 U
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.0006^{B}	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.00 U
Hexanone, 2- (Methyl Butyl Ketone)	µg/L	50^{A}	25.0 U	50.0 U	50.0 U	50.0 U	5.00 U	5.0 U	5.0 U	5.00 U	5.00 U
Isopropylbenzene	µg/L	5_{**}^{B}	25.0 U	20.0 U	20.0 U	20.0 U	2.00 U	-	-	2.00 U	2.00 U
Isopropyltoluene, p- (Cymene)	µg/L	5_{**}^{B}	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	-	-	-	-
Methyl Acetate	µg/L	n/v	10.0 U	20.0 U	20.0 U	20.0 U	5.11	2.0 U	2.0 U	2.00 U	2.00 U
Methyl Ethyl Ketone (MEK)	µg/L	50^{A}	50.0 U	100 U	100 U	100 U	19.4	36	38	10.0 U	10.0 U
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	25.0 U	50.0 U	50.0 U	50.0 U	5.00 U	5.0 U	5.0 U	5.00 U	5.00 U
Methyl tert-butyl ether (MTBE)	µg/L	10^{A}	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.00 U
Methylcyclohexane	µg/L	n/v	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.00 U
Methylene Chloride (Dichloromethane)	µg/L	5_{**}^{B}	25.0 U	50.0 U	50.0 U	50.0 U	5.00 U	5.0 U	5.0 U	5.00 U	5.00 U
Naphthalene	µg/L	10^{B}	25.0 U	50.0 U	50.0 U	50.0 U	5.00 U	-	-	-	-
Propylbenzene, n-	µg/L	5_{**}^{B}	25.0 U	20.0 U	20.0 U	20.0 U	2.00 U	-	-	-	-
Styrene	µg/L	5_{**}^{B}	25.0 U	50.0 U	50.0 U	50.0 U	5.00 U	5.0 U	5.0 U	5.00 U	5.00 U
Tetrachloroethane, 1,1,2,2-	µg/L	5_{**}^{B}	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.00 U
Tetrachloroethylene (PCE)	µg/L	5_{**}^{B}	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.00 U
Toluene	µg/L	5_{**}^{B}	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.00 U
Trichlorobenzene, 1,2,3-	µg/L	5_{**}^{B}	25.0 U	50.0 U	50.0 U	50.0 U	5.00 U	5.0 U	5.0 U	5.00 U	5.00 U
Trichlorobenzene, 1,2,4-	µg/L	5_{**}^{B}	25.0 U	50.0 U	50.0 U	50.0 U	5.00 U	5.0 U	5.0 U	5.00 U	5.00 U
Trichloroethane, 1,1,1-	µg/L	5_{**}^{B}	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.00 U
Trichloroethane, 1,1,2-	µg/L	1^{B}	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.00 U
Trichloroethylene (TCE)	µg/L	5_{**}^{B}	1150^{B}	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.38
Trichlorofluoromethane (Freon 11)	µg/L	5_{**}^{B}	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.00 U
Trichlorotrifluoroethane (Freon 113)	µg/L	5_{**}^{B}	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.00 U
Trimethylbenzene, 1,2,4-	µg/L	5_{**}^{B}	25.0 U	20.0 U	20.0 U	20.0 U	2.00 U	-	-	-	-
Trimethylbenzene, 1,3,5-	µg/L	5_{**}^{B}	25.0 U	20.0 U	20.0 U	20.0 U	2.00 U	-	-	-	-
Vinyl Acetate	µg/L	n/v	-	-	-	-	-	-	-	-	-
Vinyl chloride	µg/L	2^{B}	10.0 U	44.7^{B}	45.6^{B}	1650^{B}	11.5^{B}	2.4^{B}	2.3^{B}	2.00 U	3.02^{B}
Xylene, m & p-	µg/L	5_{**}^{B}	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.00 U
Xylene, o-	µg/L	5_{**}^{B}	10.0 U	20.0 U	20.0 U	20.0 U	2.00 U	2.0 U	2.0 U	2.00 U	2.00 U
Total VOC	µg/L	n/v	2234	1964.7	2175.6	2126	71	44.1	46.2	5.84	10.66
Miscellaneous Parameters											
Arsenic	mg/L	0.025^{B}	-	0.049^{B}	0.05^{B}	0.054^{B}	0.025	-	-	0.0350^{B}	-
Iron	mg/L	0.3_{*}^{B}	-	1.88^{B}	2.19^{B}	4.81^{B}	1.55^{B}	-	-	3.14^{B} L	-
Manganese	mg/L	0.3_{*}^{B}	-	2.76^{B}	2.57^{B}	1.32^{B}	0.527^{B}	-	-	0.390^{B} L	-
Sodium	mg/L	20^{B}	-	773^{B}	757^{B}	755^{B}	525^{B}	930^{B}	940^{B}	375^{B}	563^{B}
Total Organic Carbon	mg/L	n/v	-	575	590	626	142	450	470	91.2	78.0

Area of Interest	On-Site Area 1: Building B Annex							
Sample Location	MW200R							
Sample Date	28-Sep-11	3-Feb-12	29-Feb-12	4-Jun-12	22-Jan-13	10-Apr-13	10-Apr-13	2-Jul-13
Sample ID	WSR-MW-200R-GW-18	WSR-MW-200R-GW-19	WSR-MW-200R-GW-20	WSR-MW-200R-GW-21	WSR-MW-200R-GW	WSR-MW-200R-GW	WSR-MW-DUP-GW	WSR-MW-200R-GW
Sampling Company	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order	P11-4106	12:0472	12:0868	12:2335	13:0329	131242	131242	132471
Laboratory Sample ID	14153	12:0472-04	12:0868-05	12:2335-04	130329-04	131242-04	131242-06	132471-03
Sample Type							Field Duplicate	
Volatile Organic Compounds								
Acetone	250 U	500 U	100 U	31.3	50 U	48.2	53.5^{A}	34.3
Benzene	17.5 U	35.0 U	7.00 U	0.700 U	3.5 U	0.700 U	0.700 U	0.700 U
Bromobenzene	-	-	-	-	25 U	5.00 U	5.00 U	-
Bromodichloromethane	50.0 U	100 U	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Bromoform (Tribromomethane)	125 U	250 U	50.0 U	5.00 U	25 U	5.00 U	5.00 U	5.00 U
Bromomethane (Methyl bromide)	50.0 U	100 U	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Butylbenzene, n-	125 U	100 U	20.0 U	2.00 U	-	-	-	-
Butylbenzene, sec- (2-Phenylbutane)	125 U	100 U	20.0 U	2.00 U	-	-	-	-
Butylbenzene, tert-	125 U	100 U	20.0 U	2.00 U	-	-	-	-
Carbon Disulfide	125 U	100 U	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Carbon Tetrachloride (Tetrachloromethane)	50.0 U	100 U	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Chlorobenzene (Monochlorobenzene)	50.0 U	100 U	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Chlorobromomethane	125 U	250 U	50.0 U	5.00 U	25 U	5.00 U	5.00 U	5.00 U
Chloroethane (Ethyl Chloride)	50.0 U	100 U	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Chloroethyl Vinyl Ether, 2-	-	-	-	-	50 U	10.0 U	10.0 U	-
Chloroform (Trichloromethane)	50.0 U	100 U	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Chloromethane	50.0 U	100 U	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Cyclohexane	250 U	500 U	100 U	10.0 U	50 U	10.0 U	10.0 U	10.0 U
Dibromo-3-Chloropropane, 1,2- (DBCP)	250 U	500 U	100 U	10.0 U	50 U	10.0 U	10.0 U	10.0 U
Dibromochloromethane	50.0 U	100 U	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Dichlorobenzene, 1,2-	50.0 U	100 U	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Dichlorobenzene, 1,3-	50.0 U	100 U	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Dichlorobenzene, 1,4-	50.0 U	100 U	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Dichlorodifluoromethane (Freon 12)	125 U	100 U	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Dichloroethane, 1,1-	50.0 U	100 U	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Dichloroethane, 1,2-	50.0 U	100 U	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Dichloroethene, 1,1-	50.0 U	100 U	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Dichloroethylene, cis-1,2-	2690^{B}	699^{B}	377^{B}	27.0^{B}	38^{B}	7.47^{B}	8.61^{B}	4.24
Dichloroethylene, trans-1,2-	252^{B}	100 U	67.4^{B}	42.4^{B}	36^{B}	20.4^{B}	20.9^{B}	11.7^{B}
Dichloropropane, 1,2-	50.0 U	100 U	20.0 U	2.00 U	-	-	-	2.00 U
Dichloropropane, 1,3-	-	-	-	-	10 U	2.00 U	2.00 U	-
Dichloropropane, 2,2-	-	-	-	-	10 U	2.00 U	2.00 U	-
Dichloropropene, cis-1,3-	50.0 U	100 U	20.0 U	2.00 U	-	-	-	2.00 U
Dichloropropene, trans-1,3-	50.0 U	100 U	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Dioxane, 1,4-	-	-	-	-	100 U	20.0 U	20.0 U	20.0 U
Ethylbenzene	50.0 U	100 U	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Ethylene Dibromide (Dibromoethane, 1,2-)	50.0 U	100 U	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Hexanone, 2- (Methyl Butyl Ketone)	125 U	250 U	50.0 U	5.00 U	25 U	5.00 U	5.00 U	5.00 U
Isopropylbenzene	125 U	100 U	20.0 U	2.00 U	-	2.00 U	2.00 U	2.00 U
Isopropyltoluene, p- (Cymene)	50.0 U	100 U	20.0 U	2.00 U	-	-	-	-
Methyl Acetate	50.0 U	100 U	20.0 U	41.5	10 U	2.00 U	2.00 U	2.00 U
Methyl Ethyl Ketone (MEK)	250 U	500 U	100 U	29.0	150^{A}	104^{A}	111^{A}	36.6
Methyl Isobutyl Ketone (MIBK)	125 U	250 U	50.0 U	5.00 U	25 U	5.00 U	5.00 U	5.00 U
Methyl tert-butyl ether (MTBE)	50.0 U	100 U	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Methylcyclohexane	50.0 U	100 U	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Methylene Chloride (Dichloromethane)	125 U	250 U	50.0 U	5.00 U	25 U	5.00 U	5.00 U	5.00 U
Naphthalene	125 U	250 U	50.0 U	5.00 U	-	-	-	-
Propylbenzene, n-	125 U	100 U	20.0 U	2.00 U	-	-	-	-
Styrene	125 U	250 U	50.0 U	5.00 U	25 U	5.00 U	5.00 U	5.00 U
Tetrachloroethane, 1,1,2,2-	50.0 U	100 U	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Tetrachloroethylene (PCE)	50.0 U	222^{B}	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Toluene	50.0 U	100 U	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Trichlorobenzene, 1,2,3-	125 U	250 U	50.0 U	5.00 U	25 U	5.00 U	5.00 U	5.00 U
Trichlorobenzene, 1,2,4-	125 U	250 U	50.0 U	5.00 U	25 U	5.00 U	5.00 U	5.00 U
Trichloroethane, 1,1,1-	50.0 U	100 U	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Trichloroethane, 1,1,2-	50.0 U	100 U	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Trichloroethylene (TCE)	4460^{B}	100 U	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Trichlorofluoromethane (Freon 11)	50.0 U	100 U	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Trichlorotrifluoroethane (Freon 113)	50.0 U	100 U	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Trimethylbenzene, 1,2,4-	125 U	100 U	20.0 U	2.00 U	-	-	-	-
Trimethylbenzene, 1,3,5-	125 U	100 U	20.0 U	2.00 U	-	-	-	-
Vinyl Acetate	-	-	-	-	-	-	-	-
Vinyl chloride	50.0 U	2560^{B}	1050^{B}	106^{B}	380^{B}	81.5^{B}	94.7^{B}	58.9^{B}
Xylene, m & p-	50.0 U	100 U	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Xylene, o-	50.0 U	100 U	20.0 U	2.00 U	10 U	2.00 U	2.00 U	2.00 U
Total VOC	7402	3481	1494.4	277.2	604	261.57	288.71	145.74
Miscellaneous Parameters								
Arsenic	-	0.051^{B}	0.017	0.031^{B}	-	0.0100 U	-	-
Iron	-	17^{B}	2.34^{B}	0.100 U	-	0.611^{B} L	-	-
Manganese	-	0.289	0.177	0.155	-	0.207 L	-	-
Sodium	-	593^{B}	562^{B}	551^{B}	850^{B}	370^{B}	-	415^{B}
Total Organic Carbon	-	430	175	314	1000	559	-	50.0

Area of Interest	On-Site Area 1: Building B Annex										
Sample Location	MW201	MW202	MW203	MW203R	MW204		MW205	MW205R	MW206R		
Sample Date	4-Sep-12	4-Sep-12	28-Sep-11	28-Sep-11	4-Sep-12	4-Sep-12	28-Sep-11	28-Sep-11	27-Sep-11	27-Sep-11	6-Sep-12
Sample ID	WSR-MW-201-GW	WSR-MW-202-GW	WSR-MW-203-GW-1	WSR-MW-203R-GW-1	WSR-MW-204-GW	WSR-MW-DUP-GW	WSR-MW-205-GW-1	WSR-MW-205R-GW-1	WSR-MW-206R-GW-12	WSR-MW-Dup-GW-12	WSR-MW-206R-GW
Sampling Company	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order	12:3644	12:3644	P11-4105	P11-4105	12:3644	12:3644	P11-4105	P11-4105	P11-4089	P11-4089	12:3694
Laboratory Sample ID	12:3644-03	12:3644-06	14146	14145	12:3644-04	12:3644-05	14147	14148	14072	14073	12:3694-03
Sample Type						Field Duplicate				Field Duplicate	
Volatile Organic Compounds											
Acetone	10.0 U	10.0 U	10.0 U	25.0 U	10.0 U	10.0 U	10.0 U	20.0 U	50.0 U	200 U	50.0 U
Benzene	0.700 U	0.700 U	0.700 U	1.75 U	0.700 U	0.700 U	0.700 U	1.40 U	3.50 U	14.0 U	3.50 U
Bromobenzene	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	2.00 U	2.00 U	2.00 U	5.00 U	2.00 U	2.00 U	2.00 U	4.00 U	10.0 U	40.0 U	10.0 U
Bromoform (Tribromomethane)	5.00 U	5.00 U	5.00 U	12.5 U	5.00 U	5.00 U	5.00 U	10.0 U	25.0 U	100 U	25.0 U
Bromomethane (Methyl bromide)	2.00 U	2.00 U	2.00 U	5.00 U	2.00 U	2.00 U	2.00 U	4.00 U	10.0 U	40.0 U	10.0 U
Butylbenzene, n-	-	-	5.00 U	12.5 U	-	-	5.00 U	10.0 U	25.0 U	100 U	-
Butylbenzene, sec- (2-Phenylbutane)	-	-	5.00 U	12.5 U	-	-	5.00 U	10.0 U	25.0 U	100 U	-
Butylbenzene, tert-	-	-	5.00 U	12.5 U	-	-	5.00 U	10.0 U	25.0 U	100 U	-
Carbon Disulfide	2.00 U	2.00 U	5.00 U	12.5 U	2.00 U	2.00 U	5.00 U	10.0 U	25.0 U	100 U	10.0 U
Carbon Tetrachloride (Tetrachloromethane)	2.00 U	2.00 U	2.00 U	5.00 U	2.00 U	2.00 U	2.00 U	4.00 U	10.0 U	40.0 U	10.0 U
Chlorobenzene (Monochlorobenzene)	2.00 U	2.00 U	2.00 U	5.00 U	2.00 U	2.00 U	2.00 U	4.00 U	10.0 U	40.0 U	10.0 U
Chlorobromomethane	-	-	5.00 U	12.5 U	-	-	5.00 U	10.0 U	25.0 U	100 U	-
Chloroethane (Ethyl Chloride)	2.00 U	2.00 U	2.00 U	5.00 U	2.00 U	2.00 U	2.00 U	4.00 U	10.0 U	40.0 U	10.0 U
Chloroethyl Vinyl Ether, 2-	10.0 U	10.0 U	-	-	10.0 U	10.0 U	-	-	-	-	50.0 U
Chloroform (Trichloromethane)	2.00 U	2.00 U	2.00 U	5.00 U	2.00 U	2.00 U	2.00 U	4.00 U	10.0 U	40.0 U	10.0 U
Chloromethane	2.00 U	2.00 U	2.00 U	5.00 U	2.00 U	2.00 U	2.00 U	4.00 U	10.0 U	40.0 U	10.0 U
Cyclohexane	-	-	10.0 U	25.0 U	-	-	10.0 U	20.0 U	50.0 U	200 U	-
Dibromo-3-Chloropropane, 1,2- (DBCP)	-	-	10.0 U	25.0 U	-	-	10.0 U	20.0 U	50.0 U	200 U	-
Dibromochloromethane	2.00 U	2.00 U	2.00 U	5.00 U	2.00 U	2.00 U	2.00 U	4.00 U	10.0 U	40.0 U	10.0 U
Dichlorobenzene, 1,2-	2.00 U	2.00 U	2.00 U	5.00 U	2.00 U	2.00 U	2.00 U	4.00 U	10.0 U	40.0 U	10.0 U
Dichlorobenzene, 1,3-	2.00 U	2.00 U	2.00 U	5.00 U	2.00 U	2.00 U	2.00 U	4.00 U	10.0 U	40.0 U	10.0 U
Dichlorobenzene, 1,4-	2.00 U	2.00 U	2.00 U	5.00 U	2.00 U	2.00 U	2.00 U	4.00 U	10.0 U	40.0 U	10.0 U
Dichlorodifluoromethane (Freon 12)	-	-	5.00 U	12.5 U	-	-	5.00 U	10.0 U	25.0 U	100 U	-
Dichloroethane, 1,1-	2.00 U	2.00 U	2.00 U	5.00 U	2.00 U	2.00 U	2.00 U	4.00 U	10.0 U	40.0 U	10.0 U
Dichloroethane, 1,2-	2.00 U	2.00 U	2.00 U	5.00 U	2.00 U	2.00 U	2.00 U	4.00 U	10.0 U	40.0 U	10.0 U
Dichloroethene, 1,1-	2.00 U	2.00 U	2.00 U	5.00 U	2.00 U	2.00 U	2.00 U	4.00 U	10.0 U	40.0 U	10.0 U
Dichloroethylene, cis-1,2-	5.11^{B}	37.0^{B}	2.61	351^{B}	5.44^{B}	5.95^{B}	84.1^{B}	187^{B}	517^{B}	618^{B}	37.1^{B}
Dichloroethylene, trans-1,2-	2.00 U	2.14	2.00 U	48.8^{B}	11.8^{B}	11.7^{B}	2.00 U	17.6^{B}	15.5^{B}	40.0 U	10.0 U
Dichloropropane, 1,2-	2.00 U	2.00 U	2.00 U	5.00 U	2.00 U	2.00 U	2.00 U	4.00 U	10.0 U	40.0 U	10.0 U
Dichloropropane, 1,3-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 2,2-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	2.00 U	2.00 U	2.00 U	5.00 U	2.00 U	2.00 U	2.00 U	4.00 U	10.0 U	40.0 U	10.0 U
Dichloropropene, trans-1,3-	2.00 U	2.00 U	2.00 U	5.00 U	2.00 U	2.00 U	2.00 U	4.00 U	10.0 U	40.0 U	10.0 U
Dioxane, 1,4-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	2.00 U	2.00 U	2.00 U	5.00 U	2.00 U	2.00 U	2.00 U	4.00 U	10.0 U	40.0 U	10.0 U
Ethylene Dibromide (Dibromoethane, 1,2-)	-	-	2.00 U	5.00 U	-	-	2.00 U	4.00 U	10.0 U	40.0 U	-
Hexanone, 2- (Methyl Butyl Ketone)	5.00 U	5.00 U	5.00 U	12.5 U	5.00 U	5.00 U	5.00 U	10.0 U	25.0 U	100 U	25.0 U
Isopropylbenzene	-	-	5.00 U	12.5 U	-	-	5.00 U	10.0 U	25.0 U	100 U	-
Isopropyltoluene, p- (Cymene)	-	-	2.00 U	5.00 U	-	-	2.00 U	4.00 U	10.0 U	40.0 U	-
Methyl Acetate	-	-	2.00 U	5.00 U	-	-	2.00 U	4.00 U	10.0 U	40.0 U	-
Methyl Ethyl Ketone (MEK)	10.0 U	10.0 U	10.0 U	25.0 U	10.0 U	10.0 U	10.0 U	20.0 U	50.0 U	200 U	50.0 U
Methyl Isobutyl Ketone (MIBK)	5.00 U	5.00 U	5.00 U	12.5 U	5.00 U	5.00 U	5.00 U	10.0 U	25.0 U	100 U	25.0 U
Methyl tert-butyl ether (MTBE)	-	-	2.00 U	5.00 U	-	-	2.00 U	4.00 U	10.0 U	40.0 U	-
Methylcyclohexane	-	-	2.00 U	5.00 U	-	-	2.00 U	4.00 U	10.0 U	40.0 U	-
Methylene Chloride (Dichloromethane)	5.00 U	5.00 U	5.00 U	12.5 U	5.00 U	5.00 U	5.00 U	10.0 U	25.0 U	100 U	25.0 U
Naphthalene	-	-	5.00 U	12.5 U	-	-	5.00 U	10.0 U	25.0 U	100 U	-
Propylbenzene, n-	-	-	5.00 U	12.5 U	-	-	5.00 U	10.0 U	25.0 U	100 U	-
Styrene	5.00 U	5.00 U	5.00 U	12.5 U	5.00 U	5.00 U	5.00 U	10.0 U	25.0 U	100 U	25.0 U
Tetrachloroethane, 1,1,2,2-	2.00 U	2.00 U	2.00 U	5.00 U	2.00 U	2.00 U	2.00 U	4.00 U	10.0 U	40.0 U	10.0 U
Tetrachloroethylene (PCE)	2.00 U	2.00 U	2.00 U	5.00 U	3.75	4.19	2.15	4.00 U	10.0 U	40.0 U	10.0 U
Toluene	2.00 U	2.00 U	2.00 U	5.00 U	2.00 U	2.00 U	2.00 U	4.00 U	10.0 U	40.0 U	10.0 U
Trichlorobenzene, 1,2,3-	-	-	5.00 U	12.5 U	-	-	5.00 U	10.0 U	25.0 U	100 U	-
Trichlorobenzene, 1,2,4-	-	-	5.00 U	12.5 U	-	-	5.00 U	10.0 U	25.0 U	100 U	-
Trichloroethane, 1,1,1-	2.00 U	2.00 U	2.00 U	5.00 U	2.00 U	2.00 U	2.00 U	4.00 U	10.0 U	40.0 U	10.0 U
Trichloroethane, 1,1,2-	2.00 U	2.00 U	2.00 U	5.00 U	2.00 U	2.00 U	2.00 U	4.00 U	10.0 U	40.0 U	10.0 U
Trichloroethylene (TCE)	2.00 U	2.00 U	2.81	59.0^{B}	2.30	2.79	16.0^{B}	5.30^{B}	24.1^{B}	40.0 U	10.0 U
Trichlorofluoromethane (Freon 11)	2.00 U	2.00 U	2.00 U	5.00 U	2.00 U	2.00 U	2.00 U	4.00 U	10.0 U	40.0 U	10.0 U
Trichlorotrifluoroethane (Freon 113)	-	-	2.00 U	5.00 U	-	-	2.00 U	4.00 U	10.0 U	40.0 U	-
Trimethylbenzene, 1,2,4-	-	-	5.00 U	12.5 U	-	-	5.00 U	10.0 U	25.0 U	100 U	-
Trimethylbenzene, 1,3,5-	-	-	5.00 U	12.5 U	-	-	5.00 U	10.0 U	25.0 U	100 U	-
Vinyl Acetate	5.00 U	5.00 U	-	-	5.00 U	5.00 U	-	-	-	-	25.0 U
Vinyl chloride	84.5^{B}	29.7^{B}	2.00 U	11.0^{B}	18.9^{B}	17.1^{B}	2.00 U	4.00 U	475^{B}	548^{B}	88.4^{B}
Xylene, m & p-	2.00 U	2.00 U	2.00 U	5.00 U	2.00 U	2.00 U	2.00 U	4.00 U	10.0 U	40.0 U	10.0 U
Xylene, o-	2.00 U	2.00 U	2.00 U	5.00 U	2.00 U	2.00 U	2.00 U	4.00 U	10.0 U	40.0 U	10.0 U
Total VOC	89.61	68.84	5.42	469.8	42.19	41.73	102.25	209.9	1031.6	1166	125.5
Miscellaneous Parameters											
Arsenic	-	-	-	-	-	-	-	-	-	-	-
Iron	-	-	-	-	-	-	-	-	-	-	-
Manganese	-	-	-	-	-	-	-	-	-	-	-
Sodium	507^{B}	847^{B}	-	-	477^{B}	484^{B}	-	-	-	-	505^{B}
Total Organic Carbon	18.8	60.8	-	-	178	86.4	-	-	-	-	76.5

See last page for notes.

Table 9-3
Summary of Volatile Organic Compounds in Groundwater – September 2011 to July 2013
GERMANOW-SIMON CORPORATION
PROGRESS REPORT NO. 9 – SEMI-ANNUAL REPORT – MPVE OM&M, WARD STREET SITE
ROCHESTER, NY

Area of Interest			On-Site Area 1: Building B Annex																										
Sample Location			**MW207R**									**MW208**									**MW208R**		**MW209**						
Sample Date			**27-Sep-11**	**27-Sep-11**	**6-Feb-12**	**2-Mar-12**	**6-Jun-12**	**6-Sep-12**	**24-Jan-13**	**12-Apr-13**	**5-Jul-13**	**27-Sep-11**	**3-Feb-12**	**1-Mar-12**	**6-Jun-12**	**5-Sep-12**	**23-Jan-13**	**11-Apr-13**	**3-Jul-13**	**3-Jul-13**	**27-Sep-11**	**5-Sep-12**	**4-Jan-12**	**2-Feb-12**	**1-Mar-12**	**6-Jun-12**	**23-Jan-13**	**10-Apr-13**	**3-Jul-13**
Sample ID			**WSR-MW-207R-GW-12**	**WSR-MW-Dup-GW-13**	**WSR-MW-207R-GW-13**	**WSR-MW-207R-GW-14**	**WSR-MW-207R-GW-15**	**WSR-MW-207R-GW-16**	**WSR-MW-207R-GW**	**WSR-MW-207R-GW**	**WSR-MW-207R-GW**	**WSR-MW-208-GW-1**	**WSR-MW-208-GW-2**	**WSR-MW-208-GW-3**	**WSR-MW-208-GW-4**	**WSR-MW-208-GW-5**	**WSR-MW-208-GW**	**WSR-MW-208-GW**	**WSR-MW-208-GW**	**WSR-MW-Dup-GW**	**WSR-MW-208R-GW-1**	**WSR-MW-208R-GW-5**	**WSR-MW-209-GW-1**	**WSR-MW-209-GW-2**	**WSR-MW-209-GW-3**	**WSR-MW-209-GW-4**	**WSR-MW-209-GW**	**WSR-MW-209-GW**	**WSR-MW-209-GW**
Sampling Company			**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**	**STANTEC**
Laboratory			**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**	**PARAROCH**
Laboratory Work Order			**P11-4089**	**P11-4089**	**12:0488**	**12:0936**	**12:2392**	**12:3694**	**13:0365**	**131283**	**132505**	**P11-4089**	**12:0472**	**12:0906**	**12:2392**	**12:3668**	**13:0353**	**131259**	**132490**	**132490**	**P11-4089**	**12:3668**	**P12-0041**	**12:0443**	**12:0906**	**12:2392**	**13:0353**	**131242**	**132490**
Laboratory Sample ID			**14074**	**14075**	**12:0488-04**	**12:0936-03**	**12:2392-03**	**12:3694-02**	**130365-02**	**131283-04**	**132505-04**	**14077**	**12:0472-05**	**12:0906-04**	**12:2392-04**	**12:3668-02**	**130353-02**	**131259-03**	**132490-03**	**132490-04**	**14078**	**12:3668-03**	**12:0041-06**	**12:0443-05**	**12:0906-03**	**12:2392-05**	**130353-03**	**131242-07**	**132490-02**
Sample Type	**Units**	**TOGS**		**Field Duplicate**																**Field Duplicate**									
Volatile Organic Compounds																													
Acetone	µg/L	50^{A}	50.0 U	50.0 U	***100 U***	***100 U***	50.0 U	50.0 U	50 U	50.0 U	***200 U***	***250 U***	***500 U***	***500 U***	***250 U***	***100 U***	14	10.0 U	10.0 U	10.0 U	***100 U***	10.0 U	25.0 U	**140 B^{A}**	25.0 U	10.0 U	10 U	37.8	10.0 U
Benzene	µg/L	1^{B}	***3.50 U***	***3.50 U***	***7.00 U***	***7.00 U***	***3.50 U***	***3.50 U***	***3.5 U***	***3.50 U***	***14.0 U***	***17.5 U***	***35.0 U***	***35.0 U***	***17.5 U***	***7.00 U***	0.70 U	0.700 U	0.700 U	0.700 U	***7.00 U***	0.700 U	***1.75 U***	***7.00 U***	***1.75 U***	0.700 U	0.70 U	0.700 U	0.700 U
Bromobenzene	µg/L	5_{**}^{B}	-	-	-	-	-	-	***25 U***	***25.0 U***	-	-	-	-	-	-	5.0 U	5.00 U	-	-	-	-	-	-	-	-	5.0 U	5.00 U	-
Bromodichloromethane	µg/L	50^{A}	10.0 U	10.0 U	20.0 U	20.0 U	10.0 U	10.0 U	10 U	10.0 U	40.0 U	50.0 U	***100 U***	***100 U***	50.0 U	20.0 U	2.0 U	2.00 U	2.00 U	2.00 U	20.0 U	2.00 U	5.00 U	20.0 U	5.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Bromoform (Tribromomethane)	µg/L	50^{A}	25.0 U	25.0 U	50.0 U	50.0 U	25.0 U	25.0 U	25 U	25.0 U	***100 U***	***125 U***	***250 U***	***250 U***	***125 U***	50.0 U	5.0 U	5.00 U	5.00 U	5.00 U	50.0 U	5.00 U	12.5 U	50.0 U	12.5 U	5.00 U	5.0 U	5.00 U	5.00 U
Bromomethane (Methyl bromide)	µg/L	5_{**}^{B}	***10.0 U***	***10.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	***10.0 U***	***10 U***	***10.0 U***	***40.0 U***	***50.0 U***	***100 U***	***100 U***	***50.0 U***	***20.0 U***	2.0 U	2.00 U	2.00 U	2.00 U	***20.0 U***	2.00 U	5.00 U	***20.0 U***	5.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Butylbenzene, n-	µg/L	5_{**}^{B}	***25.0 U***	***25.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	-	-	-	-	***125 U***	***100 U***	***100 U***	***50.0 U***	-	-	-	-	-	***50.0 U***	-	***12.5 U***	***50.0 U***	5.00 U	2.00 U	-	-	-
Butylbenzene, sec- (2-Phenylbutane)	µg/L	5_{**}^{B}	***25.0 U***	***25.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	-	-	-	-	***125 U***	***100 U***	***100 U***	***50.0 U***	-	-	-	-	-	***50.0 U***	-	***12.5 U***	***50.0 U***	5.00 U	2.00 U	-	-	-
Butylbenzene, tert-	µg/L	5_{**}^{B}	***25.0 U***	***25.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	-	-	-	-	***125 U***	***100 U***	***100 U***	***50.0 U***	-	-	-	-	-	***50.0 U***	-	***12.5 U***	***50.0 U***	5.00 U	2.00 U	-	-	-
Carbon Disulfide	µg/L	60^{A}	25.0 U	25.0 U	20.0 U	20.0 U	10.0 U	10.0 U	10 U	10.0 U	40.0 U	***125 U***	***100 U***	***100 U***	50.0 U	20.0 U	2.0 U	2.00 U	2.00 U	2.00 U	50.0 U	2.00 U	6.28	50.0 U	5.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5^{B}	***10.0 U***	***10.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	***10.0 U***	***10 U***	***10.0 U***	***40.0 U***	***50.0 U***	***100 U***	***100 U***	***50.0 U***	***20.0 U***	2.0 U	2.00 U	2.00 U	2.00 U	***20.0 U***	2.00 U	5.00 U	***20.0 U***	5.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Chlorobenzene (Monochlorobenzene)	µg/L	5_{**}^{B}	***10.0 U***	***10.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	***10.0 U***	***10 U***	***10.0 U***	***40.0 U***	***50.0 U***	***100 U***	***100 U***	***50.0 U***	***20.0 U***	2.0 U	2.00 U	2.00 U	2.00 U	***20.0 U***	2.00 U	5.00 U	***20.0 U***	5.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Chlorobromomethane	µg/L	5_{**}^{B}	***25.0 U***	***25.0 U***	***50.0 U***	***50.0 U***	***25.0 U***	-	***25 U***	***25.0 U***	***100 U***	***125 U***	***250 U***	***250 U***	***125 U***	-	5.0 U	5.00 U	5.00 U	5.00 U	***50.0 U***	-	***12.5 U***	***50.0 U***	***12.5 U***	5.00 U	5.0 U	5.00 U	5.00 U
Chloroethane (Ethyl Chloride)	µg/L	5_{**}^{B}	***10.0 U***	***10.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	***10.0 U***	***10 U***	***10.0 U***	***40.0 U***	***50.0 U***	***100 U***	***100 U***	***50.0 U***	***20.0 U***	2.0 U	2.00 U	2.00 U	2.00 U	***20.0 U***	2.00 U	5.00 U	***20.0 U***	5.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Chloroethyl Vinyl Ether, 2-	µg/L	n/v	-	-	-	-	-	50.0 U	50 U	50.0 U	-	-	-	-	-	100 U	10 U	10.0 U	-	-	-	10.0 U	-	-	-	-	10 U	10.0 U	-
Chloroform (Trichloromethane)	µg/L	7^{B}	***10.0 U***	***10.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	***10.0 U***	***10 U***	***10.0 U***	***40.0 U***	***50.0 U***	***100 U***	***100 U***	***50.0 U***	***20.0 U***	2.0 U	2.00 U	2.00 U	2.00 U	***20.0 U***	2.00 U	5.00 U	***20.0 U***	5.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Chloromethane	µg/L	5_{**}^{B}	***10.0 U***	***10.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	***10.0 U***	***10 U***	***10.0 U***	***40.0 U***	***50.0 U***	***100 U***	***100 U***	***50.0 U***	***20.0 U***	2.0 U	2.00 U	2.00 U	2.00 U	***20.0 U***	2.00 U	5.00 U	***20.0 U***	5.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Cyclohexane	µg/L	n/v	50.0 U	50.0 U	100 U	100 U	50.0 U	-	50 U	50.0 U	200 U	250 U	500 U	500 U	250 U	-	10 U	10.0 U	10.0 U	10.0 U	100 U	-	25.0 U	100 U	25.0 U	10.0 U	10 U	10.0 U	10.0 U
Dibromo-3-Chloropropane, 1,2- (DBCP)	µg/L	0.04^{B}	***50.0 U***	***50.0 U***	***100 U***	***100 U***	***50.0 U***	-	***50 U***	***50.0 U***	***200 U***	***250 U***	***500 U***	***500 U***	***250 U***	-	***10 U***	***10.0 U***	***10.0 U***	***10.0 U***	***100 U***	-	***25.0 U***	***100 U***	***25.0 U***	***10.0 U***	***10 U***	***10.0 U***	***10.0 U***
Dibromochloromethane	µg/L	50^{A}	10.0 U	10.0 U	20.0 U	20.0 U	10.0 U	10.0 U	10 U	10.0 U	40.0 U	50.0 U	***100 U***	***100 U***	50.0 U	20.0 U	2.0 U	2.00 U	2.00 U	2.00 U	20.0 U	2.00 U	5.00 U	20.0 U	5.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Dichlorobenzene, 1,2-	µg/L	3^{B}	***10.0 U***	***10.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	***10.0 U***	***10 U***	***10.0 U***	***40.0 U***	***50.0 U***	***100 U***	***100 U***	***50.0 U***	***20.0 U***	2.0 U	2.00 U	2.00 U	2.00 U	***20.0 U***	2.00 U	***5.00 U***	***20.0 U***	***5.00 U***	2.00 U	2.0 U	2.00 U	2.00 U
Dichlorobenzene, 1,3-	µg/L	3^{B}	***10.0 U***	***10.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	***10.0 U***	***10 U***	***10.0 U***	***40.0 U***	***50.0 U***	***100 U***	***100 U***	***50.0 U***	***20.0 U***	2.0 U	2.00 U	2.00 U	2.00 U	***20.0 U***	2.00 U	***5.00 U***	***20.0 U***	***5.00 U***	2.00 U	2.0 U	2.00 U	2.00 U
Dichlorobenzene, 1,4-	µg/L	3^{B}	***10.0 U***	***10.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	***10.0 U***	***10 U***	***10.0 U***	***40.0 U***	***50.0 U***	***100 U***	***100 U***	***50.0 U***	***20.0 U***	2.0 U	2.00 U	2.00 U	2.00 U	***20.0 U***	2.00 U	***5.00 U***	***20.0 U***	***5.00 U***	2.00 U	2.0 U	2.00 U	2.00 U
Dichlorodifluoromethane (Freon 12)	µg/L	5_{**}^{B}	***25.0 U***	***25.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	-	***10 U***	***10.0 U***	***40.0 U***	***125 U***	***100 U***	***100 U***	***50.0 U***	-	2.0 U	2.00 U	2.00 U	2.00 U	***50.0 U***	-	***12.5 U***	***50.0 U***	5.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Dichloroethane, 1,1-	µg/L	5_{**}^{B}	***10.0 U***	***10.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	***10.0 U***	***10 U***	***10.0 U***	***40.0 U***	***50.0 U***	***100 U***	***100 U***	***50.0 U***	***20.0 U***	2.0 U	2.00 U	2.00 U	2.00 U	***20.0 U***	2.00 U	5.00 U	***20.0 U***	5.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Dichloroethane, 1,2-	µg/L	0.6^{B}	***10.0 U***	***10.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	***10.0 U***	***10 U***	***10.0 U***	***40.0 U***	***50.0 U***	***100 U***	***100 U***	***50.0 U***	***20.0 U***	***2.0 U***	***2.00 U***	***2.00 U***	***2.00 U***	***20.0 U***	***2.00 U***	***5.00 U***	***20.0 U***	***5.00 U***	***2.00 U***	***2.0 U***	***2.00 U***	***2.00 U***
Dichloroethene, 1,1-	µg/L	5_{**}^{B}	***10.0 U***	***10.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	***10.0 U***	***10 U***	***10.0 U***	***40.0 U***	***50.0 U***	***100 U***	***100 U***	***50.0 U***	***20.0 U***	2.0 U	2.00 U	2.00 U	2.00 U	***20.0 U***	2.00 U	5.00 U	***20.0 U***	5.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Dichloroethylene, cis-1,2-	µg/L	5_{**}^{B}	**908^{B}**	**913^{B}**	**1330^{B}**	**1480^{B}**	**432^{B}**	**98.4^{B}**	**500^{B}**	**250^{B}**	**193^{B}**	**583^{B}**	**4380^{B}**	**1860^{B}**	**1070^{B}**	**1680^{B}**	**35^{B}**	2.48	2.38	2.67	**1310^{B}**	**89.5^{B}**	**325^{B}**	**972^{B}**	**315^{B}**	**44.6^{B}**	**21^{B}**	2.26	2.95
Dichloroethylene, trans-1,2-	µg/L	5_{**}^{B}	**22.7^{B}**	**22.3^{B}**	***20.0 U***	***20.0 U***	**13.9^{B}**	**26.0^{B}**	**24^{B}**	***10.0 U***	***40.0 U***	***50.0 U***	***100 U***	***100 U***	***50.0 U***	**30.6^{B}**	4.2	2.00 U	2.00 U	2.00 U	***20.0 U***	**6.44^{B}**	5.00 U	***20.0 U***	**5.28^{B}**	3.34	3.2	2.73	2.00 U
Dichloropropane, 1,2-	µg/L	1^{B}	***10.0 U***	***10.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	***10.0 U***	-	-	***40.0 U***	***50.0 U***	***100 U***	***100 U***	***50.0 U***	***20.0 U***	-	-	***2.00 U***	***2.00 U***	***20.0 U***	***2.00 U***	***5.00 U***	***20.0 U***	***5.00 U***	***2.00 U***	-	-	***2.00 U***
Dichloropropane, 1,3-	µg/L	5_{**}^{B}	-	-	-	-	-	-	***10 U***	***10.0 U***	-	-	-	-	-	-	2.0 U	2.00 U	-	-	-	-	-	-	-	-	2.0 U	2.00 U	-
Dichloropropane, 2,2-	µg/L	5_{**}^{B}	-	-	-	-	-	-	***10 U***	***10.0 U***	-	-	-	-	-	-	2.0 U	2.00 U	-	-	-	-	-	-	-	-	2.0 U	2.00 U	-
Dichloropropene, cis-1,3-	µg/L	0.4_{p}^{B}	***10.0 U***	***10.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	***10.0 U***	-	-	***40.0 U***	***50.0 U***	***100 U***	***100 U***	***50.0 U***	***20.0 U***	-	-	***2.00 U***	***2.00 U***	***20.0 U***	***2.00 U***	***5.00 U***	***20.0 U***	***5.00 U***	***2.00 U***	-	-	***2.00 U***
Dichloropropene, trans-1,3-	µg/L	0.4_{p}^{B}	***10.0 U***	***10.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	***10.0 U***	***10 U***	***10.0 U***	***40.0 U***	***50.0 U***	***100 U***	***100 U***	***50.0 U***	***20.0 U***	***2.0 U***	***2.00 U***	***2.00 U***	***2.00 U***	***20.0 U***	***2.00 U***	***5.00 U***	***20.0 U***	***5.00 U***	***2.00 U***	***2.0 U***	***2.00 U***	***2.00 U***
Dioxane, 1,4-	µg/L	n/v	-	-	-	-	-	-	100 U	100 U	400 U	-	-	-	-	-	20 U	20.0 U	20.0 U	20.0 U	-	-	-	-	-	-	20 U	20.0 U	20.0 U
Ethylbenzene	µg/L	5_{**}^{B}	***10.0 U***	***10.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	***10.0 U***	***10 U***	***10.0 U***	***40.0 U***	***50.0 U***	***100 U***	***100 U***	***50.0 U***	***20.0 U***	2.0 U	2.00 U	2.00 U	2.00 U	***20.0 U***	2.00 U	5.00 U	***20.0 U***	5.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.0006^{B}	***10.0 U***	***10.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	-	***10 U***	***10.0 U***	***40.0 U***	***50.0 U***	***100 U***	***100 U***	***50.0 U***	-	***2.0 U***	***2.00 U***	***2.00 U***	***2.00 U***	***20.0 U***	-	***5.00 U***	***20.0 U***	***5.00 U***	***2.00 U***	***2.0 U***	***2.00 U***	***2.00 U***
Hexanone, 2- (Methyl Butyl Ketone)	µg/L	50^{A}	25.0 U	25.0 U	50.0 U	50.0 U	25.0 U	25.0 U	25 U	25.0 U	***100 U***	***125 U***	***250 U***	***250 U***	***125 U***	50.0 U	5.0 U	5.00 U	5.00 U	5.00 U	50.0 U	5.00 U	12.5 U	50.0 U	12.5 U	5.00 U	5.0 U	5.00 U	5.00 U
Isopropylbenzene	µg/L	5_{**}^{B}	***25.0 U***	***25.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	-	-	***10.0 U***	***40.0 U***	***125 U***	***100 U***	***100 U***	***50.0 U***	-	-	2.00 U	2.00 U	2.00 U	***50.0 U***	-	***12.5 U***	***50.0 U***	5.00 U	2.00 U	-	2.00 U	2.00 U
Isopropyltoluene, p- (Cymene)	µg/L	5_{**}^{B}	***10.0 U***	***10.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	-	-	-	-	***50.0 U***	***100 U***	***100 U***	***50.0 U***	-	-	-	-	-	***20.0 U***	-	5.00 U	***20.0 U***	5.00 U	2.00 U	-	-	-
Methyl Acetate	µg/L	n/v	10.0 U	10.0 U	20.0 U	20.0 U	10.0 U	-	10 U	10.0 U	40.0 U	50.0 U	100 U	100 U	50.0 U	-	2.0 U	2.00 U	2.00 U	2.00 U	20.0 U	-	5.00 U	20.0 U	5.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Methyl Ethyl Ketone (MEK)	µg/L	50^{A}	50.0 U	50.0 U	***100 U***	***100 U***	50.0 U	50.0 U	**140^{A}**	**61.0^{A}**	***200 U***	***250 U***	***500 U***	***500 U***	***250 U***	***100 U***	22	10.0 U	10.0 U	10.0 U	***100 U***	10.0 U	**56.0^{A}**	***100 U***	25.0 U	10.0 U	21	12.5	10.0 U
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	25.0 U	25.0 U	50.0 U	50.0 U	25.0 U	25.0 U	25 U	25.0 U	100 U	125 U	250 U	250 U	125 U	50.0 U	5.0 U	5.00 U	5.00 U	5.00 U	50.0 U	5.00 U	12.5 U	50.0 U	12.5 U	5.00 U	5.0 U	5.00 U	5.00 U
Methyl tert-butyl ether (MTBE)	µg/L	10^{A}	10.0 U	10.0 U	***20.0 U***	***20.0 U***	10.0 U	-	10 U	10.0 U	***40.0 U***	***50.0 U***	***100 U***	***100 U***	***50.0 U***	-	2.0 U	2.00 U	2.00 U	2.00 U	***20.0 U***	-	5.00 U	***20.0 U***	5.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Methylcyclohexane	µg/L	n/v	10.0 U	10.0 U	20.0 U	20.0 U	10.0 U	-	10 U	10.0 U	40.0 U	50.0 U	100 U	100 U	50.0 U	-	2.0 U	2.00 U	2.00 U	2.00 U	20.0 U	-	5.00 U	20.0 U	5.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Methylene Chloride (Dichloromethane)	µg/L	5_{**}^{B}	***25.0 U***	***25.0 U***	***50.0 U***	***50.0 U***	***25.0 U***	***25.0 U***	***25 U***	***25.0 U***	***100 U***	***125 U***	***250 U***	***250 U***	***125 U***	***50.0 U***	5.0 U	5.00 U	5.00 U	5.00 U	***50.0 U***	5.00 U	***12.5 U***	***50.0 U***	***12.5 U***	5.00 U	5.0 U	5.00 U	5.00 U
Naphthalene	µg/L	10^{B}	***25.0 U***	***25.0 U***	***50.0 U***	***50.0 U***	***25.0 U***	-	-	-	-	***125 U***	***250 U***	***250 U***	***125 U***	-	-	-	-	-	***50.0 U***	-	***12.5 U***	***50.0 U***	***12.5 U***	5.00 U	-	-	-
Propylbenzene, n-	µg/L	5_{**}^{B}	***25.0 U***	***25.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	-	-	-	-	***125 U***	***100 U***	***100 U***	***50.0 U***	-	-	-	-	-	***50.0 U***	-	***12.5 U***	***50.0 U***	5.00 U	2.00 U	-	-	-
Styrene	µg/L	5_{**}^{B}	***25.0 U***	***25.0 U***	***50.0 U***	***50.0 U***	***25.0 U***	***25.0 U***	***25 U***	***25.0 U***	***100 U***	***125 U***	***250 U***	***250 U***	***125 U***	***50.0 U***	5.0 U	5.00 U	5.00 U	5.00 U	***50.0 U***	5.00 U	***12.5 U***	***50.0 U***	***12.5 U***	5.00 U	5.0 U	5.00 U	5.00 U
Tetrachloroethane, 1,1,2,2-	µg/L	5_{**}^{B}	***10.0 U***	***10.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	***10.0 U***	***10 U***	***10.0 U***	***40.0 U***	***50.0 U***	***100 U***	***100 U***	***50.0 U***	***20.0 U***	2.0 U	2.00 U	2.00 U	2.00 U	***20.0 U***	2.00 U	5.00 U	***20.0 U***	5.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Tetrachloroethylene (PCE)	µg/L	5_{**}^{B}	**132^{B}**	**130^{B}**	***20.0 U***	***20.0 U***	***10.0 U***	***10.0 U***	**19^{B}**	***10.0 U***	***40.0 U***	**3010^{B}**	**360^{B}**	***100 U***	**393^{B}**	**256^{B}**	2.0 U	2.00 U	2.00 U	2.00 U	**111^{B}**	2.00 U	**26.9^{B}**	***20.0 U***	5.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Toluene	µg/L	5_{**}^{B}	***10.0 U***	***10.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	***10.0 U***	***10 U***	***10.0 U***	***40.0 U***	***50.0 U***	***100 U***	***100 U***	***50.0 U***	***20.0 U***	2.0 U	2.00 U	2.00 U	2.00 U	***20.0 U***	2.00 U	5.00 U	***20.0 U***	5.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Trichlorobenzene, 1,2,3-	µg/L	5_{**}^{B}	***25.0 U***	***25.0 U***	***50.0 U***	***50.0 U***	***25.0 U***	-	***25 U***	***25.0 U***	***100 U***	***125 U***	***250 U***	***250 U***	***125 U***	-	5.0 U	5.00 U	5.00 U	5.00 U	***50.0 U***	-	***12.5 U***	***50.0 U***	***12.5 U***	5.00 U	5.0 U	5.00 U	5.00 U
Trichlorobenzene, 1,2,4-	µg/L	5_{**}^{B}	***25.0 U***	***25.0 U***	***50.0 U***	***50.0 U***	***25.0 U***	-	***25 U***	***25.0 U***	***100 U***	***125 U***	***250 U***	***250 U***	***125 U***	-	5.0 U	5.00 U	5.00 U	5.00 U	***50.0 U***	-	***12.5 U***	***50.0 U***	***12.5 U***	5.00 U	5.0 U	5.00 U	5.00 U
Trichloroethane, 1,1,1-	µg/L	5_{**}^{B}	***10.0 U***	***10.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	***10.0 U***	***10 U***	***10.0 U***	***40.0 U***	***50.0 U***	***100 U***	***100 U***	***50.0 U***	***20.0 U***	2.0 U	2.00 U	2.00 U	2.00 U	***20.0 U***	2.00 U	5.00 U	***20.0 U***	5.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Trichloroethane, 1,1,2-	µg/L	1^{B}	***10.0 U***	***10.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	***10.0 U***	***10 U***	***10.0 U***	***40.0 U***	***50.0 U***	***100 U***	***100 U***	***50.0 U***	***20.0 U***	***2.0 U***	***2.00 U***	***2.00 U***	***2.00 U***	***20.0 U***	***2.00 U***	***5.00 U***	***20.0 U***	***5.00 U***	***2.00 U***	***2.0 U***	***2.00 U***	***2.00 U***
Trichloroethylene (TCE)	µg/L	5_{**}^{B}	**182^{B}**	**184^{B}**	***20.0 U***	***20.0 U***	***10.0 U***	***10.0 U***	**55^{B}**	***10.0 U***	***40.0 U***	**276^{B}**	***100 U***	**278^{B}**	**57.8^{B}**	**42.0^{B}**	2.0 U	2.00 U	2.00 U	2.00 U	***20.0 U***	2.03	**32.3^{B}**	***20.0 U***	5.00 U	4.64	2.0 U	2.00 U	2.00 U
Trichlorofluoromethane (Freon 11)	µg/L	5_{**}^{B}	***10.0 U***	***10.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	***10.0 U***	***10 U***	***10.0 U***	***40.0 U***	***50.0 U***	***100 U***	***100 U***	***50.0 U***	***20.0 U***	2.0 U	2.00 U	2.00 U	2.00 U	***20.0 U***	2.00 U	5.00 U	***20.0 U***	5.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Trichlorotrifluoroethane (Freon 113)	µg/L	5_{**}^{B}	***10.0 U***	***10.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	-	***10 U***	***10.0 U***	***40.0 U***	***50.0 U***	***100 U***	***100 U***	***50.0 U***	-	2.0 U	2.00 U	2.00 U	2.00 U	***20.0 U***	-	5.00 U	***20.0 U***	5.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Trimethylbenzene, 1,2,4-	µg/L	5_{**}^{B}	***25.0 U***	***25.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	-	-	-	-	***125 U***	***100 U***	***100 U***	***50.0 U***	-	-	-	-	-	***50.0 U***	-	***12.5 U***	***50.0 U***	5.00 U	2.00 U	-	-	-
Trimethylbenzene, 1,3,5-	µg/L	5_{**}^{B}	***25.0 U***	***25.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	-	-	-	-	***125 U***	***100 U***	***100 U***	***50.0 U***	-	-	-	-	-	***50.0 U***	-	***12.5 U***	***50.0 U***	5.00 U	2.00 U	-	-	-
Vinyl Acetate	µg/L	n/v	-	-	-	-	-	25.0 U	-	-	-	-	-	-	-	50.0 U	-	-	-	-	-	5.00 U	-	-	-	-	-	-	-
Vinyl chloride	µg/L	2^{B}	**203^{B}**	**213^{B}**	**1010^{B}**	**936^{B}**	**627^{B}**	**184^{B}**	**1000^{B}**	**327^{B}**	**1850^{B}**	***50.0 U***	***100 U***	***100 U***	**644^{B}**	**2160^{B}**	**33^{B}**	2.00 U	**2.08^{B}**	2.00 U	**361^{B}**	**105^{B}**	***5.00 U***	**190^{B}**	**233^{B}**	**47.2^{B}**	**43^{B}**	2.00 U	**2.81^{B}**
Xylene, m & p-	µg/L	5_{**}^{B}	***10.0 U***	***10.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	***10.0 U***	***10 U***	***10.0 U***	***40.0 U***	***50.0 U***	***100 U***	***100 U***	***50.0 U***	***20.0 U***	2.0 U	2.00 U	2.00 U	2.00 U	***20.0 U***	2.00 U	5.00 U	***20.0 U***	5.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Xylene, o-	µg/L	5_{**}^{B}	***10.0 U***	***10.0 U***	***20.0 U***	***20.0 U***	***10.0 U***	***10.0 U***	***10 U***	***10.0 U***	***40.0 U***	***50.0 U***	***100 U***	***100 U***	***50.0 U***	***20.0 U***	2.0 U	2.00 U	2.00 U	2.00 U	***20.0 U***	2.00 U	5.00 U	***20.0 U***	5.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Total VOC	µg/L	n/v	1447.7	1462.3	2340	2416	1072.9	308.4	1738	638	2043	3869	4740	2138	2164.8	4168.6	108.2	2.48	4.46	2.67	1782	202.97	446.48	1302	553.28	99.78	88.2	55.29	5.76
Miscellaneous Parameters																													
Arsenic	mg/L	0.025^{B}	-	-	0.010 U	0.014	0.010 U	-	-	0.0100 U	-	-	0.024	0.010 U	0.010 U	-	-	**0.0255^{B}**	-	-	-	-	**0.026^{B}**	**0.08^{B}**	0.024	0.021	-	0.0152	-
Iron	mg/L	0.3_{*}^{B}	-	-	0.100 U	0.100 U	0.100 U	-	-	0.100 U	-	-	**5.66^{B}**	**1.50^{B}**	**0.306^{B}**	-	-	**0.477^{B} L**	-	-	-	-	**28.1 M^{B}**	**21.7^{B}**	**7.78^{B}**	**2.32^{B}**	-	**4.99^{B} L**	-
Manganese	mg/L	0.3_{*}^{B}	-	-	0.045	0.145	0.057	-	-	0.0207	-	-	0.119	0.202	0.224	-	-	0.138 L	-	-	-	-	**1.98 M^{B}**	**0.743^{B}**	**0.547^{B}**	**0.373^{B}**	-	0.214 L	-
Sodium	mg/L	20^{B}	-	-	**543^{B}**	**439^{B}**	**538^{B}**	**531^{B}**	**840^{B}**	**493^{B}**	**485^{B}**	-	**262^{B}**	**264^{B}**	**242^{B}**	**353^{B}**	**570^{B}**	**191^{B}**	**306^{B}**	-	-	**523^{B}**	**1260^{B}**	**1300^{B}**	**1080^{B}**	**657^{B}**	**1200^{B}**	**442^{B}**	**587^{B}**
Total Organic Carbon	mg/L	n/v	-	-	18.5	8.7	9.4	1.7	530	131	28.0	-	9.9	10.2	6.7	9.8	300	47.6	14.0	-	-	73.9	652	1940	288.0	21.2	850	585	44.0

See last page for notes.

Table 9-3
Summary of Volatile Organic Compounds in Groundwater – September 2011 to July 2013
GERMANOW-SIMON CORPORATION
PROGRESS REPORT NO. 9 – SEMI-ANNUAL REPORT – MPVE OM&M, WARD STREET SITE
ROCHESTER, NY

Area of Interest			On-Site Area 1: Building B Annex										Off-Site Area 1: MW-16/ Ward Street																			
Sample Location			MW210	MW210R	MW212R								MW16								MW16R										MW211R	
Sample Date			28-Sep-11	28-Sep-11	27-Sep-11	5-Jan-12	6-Feb-12	2-Mar-12	5-Jun-12	24-Jan-13	12-Apr-13	5-Jul-13	27-Sep-11	3-Feb-12	2-Mar-12	5-Jun-12	5-Sep-12	23-Jan-13	11-Apr-13	3-Jul-13	28-Sep-11	5-Jan-12	3-Feb-12	1-Mar-12	1-Mar-12	5-Jun-12	5-Sep-12	23-Jan-13	11-Apr-13	3-Jul-13	27-Sep-11	6-Sep-12
Sample ID			WSR-MW-210-GW-1	WSR-MW-210R-GW-1	WSR-MW-212R-GW-12	WSR-MW-212R-GW-13	WSR-MW-212R-GW-14	WSR-MW-212R-GW-15	WSR-MW-212R-GW-16	WSR-MW-212R-GW	WSR-MW-212R-GW	WSR-MW-212R-GW	WSR-MW-16-GW-18	WSR-MW-16-GW-19	WSR-MW-16-GW-20	WSR-MW-16-GW-21	WSR-MW-16-GW-22	WSR-MW-16-GW	WSR-MW-16-GW	WSR-MW-16-GW	WSR-MW-16R-GW-18	WSR-MW-16R-GW-19	WSR-MW-16R-GW-20	WSR-MW-16R-GW-21	WSR-MW-DUP-GW-21	WSR-MW-16R-GW-22	WSR-MW-16R-GW-23	WSR-MW-16R-GW	WSR-MW-16R-GW	WSR-MW-16R-GW	WSR-MW-211R-GW-12	WSR-MW-211R-GW
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order			P11-4105	P11-4105	P11-4090	P12-0069	12:0488	12:0936	12:2364	13:0365	131283	132505	P11-4090	12:0472	12:0936	12:2364	12:3668	13:0353	131259	132490	P11-4106	P12-0069	12:0472	12:0906	12:0906	12:2364	12:3668	13:0353	131259	132490	P11-4089	12:3694
Laboratory Sample ID			14143	14144	14082	12:0069-03	12:0488-05	12:0936-04	12:2364-07	130365-03	131283-05	132505-05	14083	12:0472-06	12:0936-02	12:2364-06	12:3668-05	130353-05	131259-05	132490-06	14149	12:0069-02	12:0472-07	12:0906-05	12:0906-06	12:2364-05	12:3668-04	130353-04	131259-04	132490-05	14076	12:3694-04
Sample Type	Units	TOGS																							Field Duplicate							
Volatile Organic Compounds																																
Acetone	µg/L	50^{A}	10.0 U	50.0 U	50.0 U	***250 U***	50.0 U	***250 U***	***100 U***	***100 U***	10.0 U	50.0 U	***500 U***	***500 U***	***500 U***	***500 U***	***500 U***	10 U	10.0 U	10.0 U	50.0 U	25.0 U	***500 U***	***100 U***	***100 U***	***500 U***	***500 U***	***250 U***	***100 U***	***100 U***	50.0 U	35.8
Benzene	µg/L	1^{B}	0.700 U	***3.50 U***	***3.50 U***	***17.5 U***	***3.50 U***	***17.5 U***	***7.00 U***	***7.0 U***	0.700 U	***3.50 U***	***35.0 U***	***35.0 U***	***35.0 U***	***35.0 U***	***35.0 U***	0.70 U	0.700 U	0.700 U	***3.50 U***	***1.75 U***	***35.0 U***	***7.00 U***	***7.00 U***	***35.0 U***	***35.0 U***	***18 U***	***7.00 U***	***7.00 U***	***3.50 U***	0.700 U
Bromobenzene	µg/L	5_{**}^{B}	-	-	-	-	-	-	-	***50 U***	5.00 U	-	-	-	-	-	-	5.0 U	5.00 U	-	-	-	-	-	-	-	-	***130 U***	***50.0 U***	-	-	-
Bromodichloromethane	µg/L	50^{A}	2.00 U	10.0 U	10.0 U	50.0 U	10.0 U	50.0 U	20.0 U	20 U	2.00 U	10.0 U	***100 U***	***100 U***	***100 U***	***100 U***	***100 U***	2.0 U	2.00 U	2.00 U	10.0 U	5.00 U	***100 U***	20.0 U	20.0 U	***100 U***	***100 U***	50 U	20.0 U	20.0 U	10.0 U	2.00 U
Bromoform (Tribromomethane)	µg/L	50^{A}	5.00 U	25.0 U	25.0 U	***125 U***	25.0 U	***125 U***	50.0 U	50 U	5.00 U	25.0 U	***250 U***	***250 U***	***250 U***	***250 U***	***250 U***	5.0 U	5.00 U	5.00 U	25.0 U	12.5 U	***250 U***	50.0 U	50.0 U	***250 U***	***250 U***	***130 U***	50.0 U	50.0 U	25.0 U	5.00 U
Bromomethane (Methyl bromide)	µg/L	5_{**}^{B}	2.00 U	***10.0 U***	***10.0 U***	***50.0 U***	***10.0 U***	***50.0 U***	***20.0 U***	***20 U***	2.00 U	***10.0 U***	***100 U***	***100 U***	***100 U***	***100 U***	***100 U***	2.0 U	2.00 U	2.00 U	***10.0 U***	5.00 U	***100 U***	***20.0 U***	***20.0 U***	***100 U***	***100 U***	***50 U***	***20.0 U***	***20.0 U***	***10.0 U***	2.00 U
Butylbenzene, n-	µg/L	5_{**}^{B}	5.00 U	***25.0 U***	***25.0 U***	***125 U***	***10.0 U***	***50.0 U***	***20.0 U***	-	-	-	***250 U***	***100 U***	***100 U***	***100 U***	-	-	-	-	***25.0 U***	***12.5 U***	***100 U***	***20.0 U***	***20.0 U***	***100 U***	-	-	-	-	***25.0 U***	-
Butylbenzene, sec- (2-Phenylbutane)	µg/L	5_{**}^{B}	5.00 U	***25.0 U***	***25.0 U***	***125 U***	***10.0 U***	***50.0 U***	***20.0 U***	-	-	-	***250 U***	***100 U***	***100 U***	***100 U***	-	-	-	-	***25.0 U***	***12.5 U***	***100 U***	***20.0 U***	***20.0 U***	***100 U***	-	-	-	-	***25.0 U***	-
Butylbenzene, tert-	µg/L	5_{**}^{B}	5.00 U	***25.0 U***	***25.0 U***	***125 U***	***10.0 U***	***50.0 U***	***20.0 U***	-	-	-	***250 U***	***100 U***	***100 U***	***100 U***	-	-	-	-	***25.0 U***	***12.5 U***	***100 U***	***20.0 U***	***20.0 U***	***100 U***	-	-	-	-	***25.0 U***	-
Carbon Disulfide	µg/L	60^{A}	5.00 U	25.0 U	25.0 U	***125 U***	10.0 U	50.0 U	20.0 U	20 U	2.00 U	10.0 U	***250 U***	***100 U***	***100 U***	***100 U***	***100 U***	2.0 U	2.00 U	2.00 U	25.0 U	12.5 U	***100 U***	20.0 U	20.0 U	***100 U***	***100 U***	50 U	20.0 U	20.0 U	25.0 U	2.00 U
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5^{B}	2.00 U	***10.0 U***	***10.0 U***	***50.0 U***	***10.0 U***	***50.0 U***	***20.0 U***	***20 U***	2.00 U	***10.0 U***	***100 U***	***100 U***	***100 U***	***100 U***	***100 U***	2.0 U	2.00 U	2.00 U	***10.0 U***	5.00 U	***100 U***	***20.0 U***	***20.0 U***	***100 U***	***100 U***	***50 U***	***20.0 U***	***20.0 U***	***10.0 U***	2.00 U
Chlorobenzene (Monochlorobenzene)	µg/L	5_{**}^{B}	2.00 U	***10.0 U***	***10.0 U***	***50.0 U***	***10.0 U***	***50.0 U***	***20.0 U***	***20 U***	2.00 U	***10.0 U***	***100 U***	***100 U***	***100 U***	***100 U***	***100 U***	2.0 U	2.00 U	2.00 U	***10.0 U***	5.00 U	***100 U***	***20.0 U***	***20.0 U***	***100 U***	***100 U***	***50 U***	***20.0 U***	***20.0 U***	***10.0 U***	2.00 U
Chlorobromomethane	µg/L	5_{**}^{B}	5.00 U	***25.0 U***	***25.0 U***	***125 U***	***25.0 U***	***125 U***	***50.0 U***	***50 U***	5.00 U	***25.0 U***	***250 U***	***250 U***	***250 U***	***250 U***	-	5.0 U	5.00 U	5.00 U	***25.0 U***	***12.5 U***	***250 U***	***50.0 U***	***50.0 U***	***250 U***	-	***130 U***	***50.0 U***	***50.0 U***	***25.0 U***	-
Chloroethane (Ethyl Chloride)	µg/L	5_{**}^{B}	2.00 U	***10.0 U***	***10.0 U***	***50.0 U***	***10.0 U***	***50.0 U***	***20.0 U***	***20 U***	2.00 U	***10.0 U***	***100 U***	***100 U***	***100 U***	***100 U***	***100 U***	2.0 U	2.00 U	2.00 U	***10.0 U***	5.00 U	***100 U***	***20.0 U***	***20.0 U***	***100 U***	***100 U***	***50 U***	***20.0 U***	***20.0 U***	***10.0 U***	2.00 U
Chloroethyl Vinyl Ether, 2-	µg/L	n/v	-	-	-	-	-	-	-	100 U	10.0 U	-	-	-	-	-	500 U	10 U	10.0 U	-	-	-	-	-	-	-	500 U	250 U	100 U	-	-	10.0 U
Chloroform (Trichloromethane)	µg/L	7^{B}	2.00 U	***10.0 U***	***10.0 U***	***50.0 U***	***10.0 U***	***50.0 U***	***20.0 U***	***20 U***	2.00 U	***10.0 U***	***100 U***	***100 U***	***100 U***	***100 U***	***100 U***	2.0 U	2.00 U	2.00 U	***10.0 U***	5.00 U	***100 U***	***20.0 U***	***20.0 U***	***100 U***	***100 U***	***50 U***	***20.0 U***	***20.0 U***	***10.0 U***	2.00 U
Chloromethane	µg/L	5_{**}^{B}	2.00 U	***10.0 U***	***10.0 U***	***50.0 U***	***10.0 U***	***50.0 U***	***20.0 U***	***20 U***	2.00 U	***10.0 U***	***100 U***	***100 U***	***100 U***	***100 U***	***100 U***	2.0 U	2.00 U	2.00 U	***10.0 U***	5.00 U	***100 U***	***20.0 U***	***20.0 U***	***100 U***	***100 U***	***50 U***	***20.0 U***	***20.0 U***	***10.0 U***	2.00 U
Cyclohexane	µg/L	n/v	10.0 U	50.0 U	50.0 U	250 U	50.0 U	250 U	100 U	100 U	10.0 U	50.0 U	500 U	500 U	500 U	500 U	-	10 U	10.0 U	10.0 U	50.0 U	25.0 U	500 U	100 U	100 U	500 U	-	250 U	100 U	100 U	50.0 U	-
Dibromo-3-Chloropropane, 1,2- (DBCP)	µg/L	0.04^{B}	***10.0 U***	***50.0 U***	***50.0 U***	***250 U***	***50.0 U***	***250 U***	***100 U***	***100 U***	***10.0 U***	***50.0 U***	***500 U***	***500 U***	***500 U***	***500 U***	-	***10 U***	***10.0 U***	***10.0 U***	***50.0 U***	***25.0 U***	***500 U***	***100 U***	***100 U***	***500 U***	-	***250 U***	***100 U***	***100 U***	***50.0 U***	-
Dibromochloromethane	µg/L	50^{A}	2.00 U	10.0 U	10.0 U	50.0 U	10.0 U	50.0 U	20.0 U	20 U	2.00 U	10.0 U	***100 U***	***100 U***	***100 U***	***100 U***	***100 U***	2.0 U	2.00 U	2.00 U	10.0 U	5.00 U	***100 U***	20.0 U	20.0 U	***100 U***	***100 U***	50 U	20.0 U	20.0 U	10.0 U	2.00 U
Dichlorobenzene, 1,2-	µg/L	3^{B}	2.00 U	***10.0 U***	***10.0 U***	***50.0 U***	***10.0 U***	***50.0 U***	***20.0 U***	***20 U***	2.00 U	***10.0 U***	***100 U***	***100 U***	***100 U***	***100 U***	***100 U***	2.0 U	2.00 U	2.00 U	***10.0 U***	***5.00 U***	***100 U***	***20.0 U***	***20.0 U***	***100 U***	***100 U***	***50 U***	***20.0 U***	***20.0 U***	***10.0 U***	2.00 U
Dichlorobenzene, 1,3-	µg/L	3^{B}	2.00 U	***10.0 U***	***10.0 U***	***50.0 U***	***10.0 U***	***50.0 U***	***20.0 U***	***20 U***	2.00 U	***10.0 U***	***100 U***	***100 U***	***100 U***	***100 U***	***100 U***	2.0 U	2.00 U	2.00 U	***10.0 U***	***5.00 U***	***100 U***	***20.0 U***	***20.0 U***	***100 U***	***100 U***	***50 U***	***20.0 U***	***20.0 U***	***10.0 U***	2.00 U
Dichlorobenzene, 1,4-	µg/L	3^{B}	2.00 U	***10.0 U***	***10.0 U***	***50.0 U***	***10.0 U***	***50.0 U***	***20.0 U***	***20 U***	2.00 U	***10.0 U***	***100 U***	***100 U***	***100 U***	***100 U***	***100 U***	2.0 U	2.00 U	2.00 U	***10.0 U***	***5.00 U***	***100 U***	***20.0 U***	***20.0 U***	***100 U***	***100 U***	***50 U***	***20.0 U***	***20.0 U***	***10.0 U***	2.00 U
Dichlorodifluoromethane (Freon 12)	µg/L	5_{**}^{B}	5.00 U	***25.0 U***	***25.0 U***	***125 U***	***10.0 U***	***50.0 U***	***20.0 U***	***20 U***	2.00 U	***10.0 U***	***250 U***	***100 U***	***100 U***	***100 U***	-	2.0 U	2.00 U	2.00 U	***25.0 U***	***12.5 U***	***100 U***	***20.0 U***	***20.0 U***	***100 U***	-	***50 U***	***20.0 U***	***20.0 U***	***25.0 U***	-
Dichloroethane, 1,1-	µg/L	5_{**}^{B}	2.00 U	***10.0 U***	***10.0 U***	***50.0 U***	***10.0 U***	***50.0 U***	***20.0 U***	***20 U***	2.00 U	***10.0 U***	***100 U***	***100 U***	***100 U***	***100 U***	***100 U***	2.0 U	2.00 U	2.00 U	***10.0 U***	5.00 U	***100 U***	***20.0 U***	***20.0 U***	***100 U***	***100 U***	***50 U***	***20.0 U***	***20.0 U***	***10.0 U***	2.00 U
Dichloroethane, 1,2-	µg/L	0.6^{B}	***2.00 U***	***10.0 U***	***10.0 U***	***50.0 U***	***10.0 U***	***50.0 U***	***20.0 U***	***20 U***	***2.00 U***	***10.0 U***	***100 U***	***100 U***	***100 U***	***100 U***	***100 U***	***2.0 U***	***2.00 U***	***2.00 U***	***10.0 U***	***5.00 U***	***100 U***	***20.0 U***	***20.0 U***	***100 U***	***100 U***	***50 U***	***20.0 U***	***20.0 U***	***10.0 U***	***2.00 U***
Dichloroethene, 1,1-	µg/L	5_{**}^{B}	2.00 U	***10.0 U***	***10.0 U***	***50.0 U***	***10.0 U***	***50.0 U***	***20.0 U***	***20 U***	2.00 U	***10.0 U***	***100 U***	***100 U***	***100 U***	***100 U***	***100 U***	2.0 U	2.00 U	2.00 U	***10.0 U***	5.00 U	***100 U***	***20.0 U***	***20.0 U***	***100 U***	***100 U***	***50 U***	***20.0 U***	***20.0 U***	***10.0 U***	2.00 U
Dichloroethylene, cis-1,2-	µg/L	5_{**}^{B}	**19.1**^{B}	**468**^{B}	**1120**^{B}	**3300**^{B}	**579**^{B}	**653**^{B}	***20.0 U***	**240**^{B}	**19.9**^{B}	**11.5**^{B}	**1790**^{B}	**8600**^{B}	**2770**^{B}	**2720**^{B}	**772**^{B}	**8.3**^{B}	**23.6**^{B}	**9.39**^{B}	**1150**^{B}	**110**^{B}	**3810**^{B}	**2260**^{B}	**2360**^{B}	**2630**^{B}	**1410**^{B}	**1000**^{B}	**841**^{B}	**664**^{B}	**420**^{B}	**9.27**^{B}
Dichloroethylene, trans-1,2-	µg/L	5_{**}^{B}	2.00 U	***10.0 U***	**63.5**^{B}	***50.0 U***	**16.7**^{B}	***50.0 U***	**21.6**^{B}	**23**^{B}	**17.2**^{B}	**23.5**^{B}	***100 U***	***100 U***	***100 U***	***100 U***	***100 U***	2.0 U	**24.3**^{B}	4.89	**10.6**^{B}	5.00 U	***100 U***	***20.0 U***	***20.0 U***	***100 U***	***100 U***	***50 U***	***20.0 U***	***20.0 U***	***10.0 U***	2.35
Dichloropropane, 1,2-	µg/L	1^{B}	***2.00 U***	***10.0 U***	***10.0 U***	***50.0 U***	***10.0 U***	***50.0 U***	***20.0 U***	-	-	***10.0 U***	***100 U***	***100 U***	***100 U***	***100 U***	***100 U***	-	-	***2.00 U***	***10.0 U***	***5.00 U***	***100 U***	***20.0 U***	***20.0 U***	***100 U***	***100 U***	-	-	***20.0 U***	***10.0 U***	***2.00 U***
Dichloropropane, 1,3-	µg/L	5_{**}^{B}	-	-	-	-	-	-	-	***20 U***	2.00 U	-	-	-	-	-	-	2.0 U	2.00 U	-	-	-	-	-	-	-	-	***50 U***	***20.0 U***	-	-	-
Dichloropropane, 2,2-	µg/L	5_{**}^{B}	-	-	-	-	-	-	-	***20 U***	2.00 U	-	-	-	-	-	-	2.0 U	2.00 U	-	-	-	-	-	-	-	-	***50 U***	***20.0 U***	-	-	-
Dichloropropene, cis-1,3-	µg/L	0.4_{p}^{B}	***2.00 U***	***10.0 U***	***10.0 U***	***50.0 U***	***10.0 U***	***50.0 U***	***20.0 U***	-	-	***10.0 U***	***100 U***	***100 U***	***100 U***	***100 U***	***100 U***	-	-	***2.00 U***	***10.0 U***	***5.00 U***	***100 U***	***20.0 U***	***20.0 U***	***100 U***	***100 U***	-	-	***20.0 U***	***10.0 U***	***2.00 U***
Dichloropropene, trans-1,3-	µg/L	0.4_{p}^{B}	***2.00 U***	***10.0 U***	***10.0 U***	***50.0 U***	***10.0 U***	***50.0 U***	***20.0 U***	***20 U***	***2.00 U***	***10.0 U***	***100 U***	***100 U***	***100 U***	***100 U***	***100 U***	***2.0 U***	***2.00 U***	***2.00 U***	***10.0 U***	***5.00 U***	***100 U***	***20.0 U***	***20.0 U***	***100 U***	***100 U***	***50 U***	***20.0 U***	***20.0 U***	***10.0 U***	***2.00 U***
Dioxane, 1,4-	µg/L	n/v	-	-	-	-	-	-	-	200 U	20.0 U	100 U	-	-	-	-	-	20 U	20.0 U	20.0 U	-	-	-	-	-	-	-	500 U	200 U	200 U	-	-
Ethylbenzene	µg/L	5_{**}^{B}	2.00 U	***10.0 U***	***10.0 U***	***50.0 U***	***10.0 U***	***50.0 U***	***20.0 U***	***20 U***	2.00 U	***10.0 U***	***100 U***	***100 U***	***100 U***	***100 U***	***100 U***	2.0 U	2.00 U	2.00 U	***10.0 U***	5.00 U	***100 U***	***20.0 U***	***20.0 U***	***100 U***	***100 U***	***50 U***	***20.0 U***	***20.0 U***	***10.0 U***	2.00 U
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.0006^{B}	***2.00 U***	***10.0 U***	***10.0 U***	***50.0 U***	***10.0 U***	***50.0 U***	***20.0 U***	***20 U***	***2.00 U***	***10.0 U***	***100 U***	***100 U***	***100 U***	***100 U***	-	***2.0 U***	***2.00 U***	***2.00 U***	***10.0 U***	***5.00 U***	***100 U***	***20.0 U***	***20.0 U***	***100 U***	-	***50 U***	***20.0 U***	***20.0 U***	***10.0 U***	-
Hexanone, 2- (Methyl Butyl Ketone)	µg/L	50^{A}	5.00 U	25.0 U	25.0 U	***125 U***	25.0 U	***125 U***	50.0 U	50 U	5.00 U	25.0 U	***250 U***	***250 U***	***250 U***	***250 U***	***250 U***	5.0 U	5.00 U	5.00 U	25.0 U	12.5 U	***250 U***	50.0 U	50.0 U	***250 U***	***250 U***	***130 U***	50.0 U	50.0 U	25.0 U	5.00 U
Isopropylbenzene	µg/L	5_{**}^{B}	5.00 U	***25.0 U***	***25.0 U***	***125 U***	***10.0 U***	***50.0 U***	***20.0 U***	-	2.00 U	***10.0 U***	***250 U***	***100 U***	***100 U***	***100 U***	-	-	2.00 U	2.00 U	***25.0 U***	***12.5 U***	***100 U***	***20.0 U***	***20.0 U***	***100 U***	-	-	***20.0 U***	***20.0 U***	***25.0 U***	-
Isopropyltoluene, p- (Cymene)	µg/L	5_{**}^{B}	2.00 U	***10.0 U***	***10.0 U***	***50.0 U***	***10.0 U***	***50.0 U***	***20.0 U***	-	-	-	***100 U***	***100 U***	***100 U***	***100 U***	-	-	-	-	***10.0 U***	5.00 U	***100 U***	***20.0 U***	***20.0 U***	***100 U***	-	-	-	-	***10.0 U***	-
Methyl Acetate	µg/L	n/v	2.00 U	10.0 U	10.0 U	50.0 U	10.0 U	50.0 U	20.0 U	20 U	2.00 U	10.0 U	100 U	100 U	100 U	100 U	-	2.0 U	2.00 U	2.00 U	10.0 U	5.00 U	100 U	20.0 U	20.0 U	100 U	-	50 U	20.0 U	20.0 U	10.0 U	-
Methyl Ethyl Ketone (MEK)	µg/L	50^{A}	10.0 U	50.0 U	50.0 U	***250 U***	50.0 U	***250 U***	***100 U***	**120**^{A}	31.7	50.0 U	***500 U***	***500 U***	***500 U***	***500 U***	***500 U***	33	10.0 U	10.0 U	50.0 U	25.0 U	***500 U***	***100 U***	***100 U***	***500 U***	***500 U***	***250 U***	***100 U***	***100 U***	50.0 U	37.7
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	5.00 U	25.0 U	25.0 U	125 U	25.0 U	125 U	50.0 U	50 U	5.00 U	25.0 U	250 U	250 U	250 U	250 U	250 U	5.0 U	5.00 U	5.00 U	25.0 U	12.5 U	250 U	50.0 U	50.0 U	250 U	250 U	130 U	50.0 U	50.0 U	25.0 U	5.00 U
Methyl tert-butyl ether (MTBE)	µg/L	10^{A}	2.00 U	10.0 U	10.0 U	***50.0 U***	10.0 U	***50.0 U***	***20.0 U***	***20 U***	2.00 U	10.0 U	***100 U***	***100 U***	***100 U***	***100 U***	-	2.0 U	2.00 U	2.00 U	10.0 U	5.00 U	***100 U***	***20.0 U***	***20.0 U***	***100 U***	-	***50 U***	***20.0 U***	***20.0 U***	10.0 U	-
Methylcyclohexane	µg/L	n/v	2.00 U	10.0 U	10.0 U	50.0 U	10.0 U	50.0 U	20.0 U	20 U	2.00 U	10.0 U	100 U	100 U	100 U	100 U	-	2.0 U	2.00 U	2.00 U	10.0 U	5.00 U	100 U	20.0 U	20.0 U	100 U	-	50 U	20.0 U	20.0 U	10.0 U	-
Methylene Chloride (Dichloromethane)	µg/L	5_{**}^{B}	5.00 U	***25.0 U***	***25.0 U***	***125 U***	***25.0 U***	***125 U***	***50.0 U***	***50 U***	5.00 U	***25.0 U***	***250 U***	***250 U***	***250 U***	***250 U***	***250 U***	5.0 U	5.00 U	5.00 U	***25.0 U***	***12.5 U***	***250 U***	***50.0 U***	***50.0 U***	***250 U***	***250 U***	***130 U***	***50.0 U***	***50.0 U***	***25.0 U***	5.00 U
Naphthalene	µg/L	10^{B}	5.00 U	***25.0 U***	***25.0 U***	***125 U***	***25.0 U***	***125 U***	***50.0 U***	-	-	-	***250 U***	***250 U***	***250 U***	***250 U***	-	-	-	-	***25.0 U***	***12.5 U***	***250 U***	***50.0 U***	***50.0 U***	***250 U***	-	-	-	-	***25.0 U***	-
Propylbenzene, n-	µg/L	5_{**}^{B}	5.00 U	***25.0 U***	***25.0 U***	***125 U***	***10.0 U***	***50.0 U***	***20.0 U***	-	-	-	***250 U***	***100 U***	***100 U***	***100 U***	-	-	-	-	***25.0 U***	***12.5 U***	***100 U***	***20.0 U***	***20.0 U***	***100 U***	-	-	-	-	***25.0 U***	-
Styrene	µg/L	5_{**}^{B}	5.00 U	***25.0 U***	***25.0 U***	***125 U***	***25.0 U***	***125 U***	***50.0 U***	***50 U***	5.00 U	***25.0 U***	***250 U***	***250 U***	***250 U***	***250 U***	***250 U***	5.0 U	5.00 U	5.00 U	***25.0 U***	***12.5 U***	***250 U***	***50.0 U***	***50.0 U***	***250 U***	***250 U***	***130 U***	***50.0 U***	***50.0 U***	***25.0 U***	5.00 U
Tetrachloroethane, 1,1,2,2-	µg/L	5_{**}^{B}	2.00 U	***10.0 U***	***10.0 U***	***50.0 U***	***10.0 U***	***50.0 U***	***20.0 U***	***20 U***	2.00 U	***10.0 U***	***100 U***	***100 U***	***100 U***	***100 U***	***100 U***	2.0 U	2.00 U	2.00 U	***10.0 U***	5.00 U	***100 U***	***20.0 U***	***20.0 U***	***100 U***	***100 U***	***50 U***	***20.0 U***	***20.0 U***	***10.0 U***	2.00 U
Tetrachloroethylene (PCE)	µg/L	5_{**}^{B}	**11.5**^{B}	**38.4**^{B}	***10.0 U***	***50.0 U***	***10.0 U***	***50.0 U***	***20.0 U***	***20 U***	2.00 U	***10.0 U***	**2390**^{B}	***100 U***	***100 U***	***100 U***	***100 U***	2.0 U	2.00 U	2.00 U	**832**^{B}	**299**^{B}	***100 U***	**65.4**^{B}	**64.4**^{B}	***100 U***	***100 U***	***50 U***	***20.0 U***	***20.0 U***	**43.6**^{B}	2.20
Toluene	µg/L	5_{**}^{B}	2.00 U	***10.0 U***	***10.0 U***	***50.0 U***	***10.0 U***	***50.0 U***	***20.0 U***	***20 U***	2.00 U	***10.0 U***	***100 U***	***100 U***	***100 U***	***100 U***	***100 U***	2.0 U	2.00 U	2.00 U	***10.0 U***	5.00 U	***100 U***	***20.0 U***	***20.0 U***	***100 U***	***100 U***	***50 U***	***20.0 U***	***20.0 U***	***10.0 U***	2.00 U
Trichlorobenzene, 1,2,3-	µg/L	5_{**}^{B}	5.00 U	***25.0 U***	***25.0 U***	***125 U***	***25.0 U***	***125 U***	***50.0 U***	***50 U***	5.00 U	***25.0 U***	***250 U***	***250 U***	***250 U***	***250 U***	-	5.0 U	5.00 U	5.00 U	***25.0 U***	***12.5 U***	***250 U***	***50.0 U***	***50.0 U***	***250 U***	-	***130 U***	***50.0 U***	***50.0 U***	***25.0 U***	-
Trichlorobenzene, 1,2,4-	µg/L	5_{**}^{B}	5.00 U	***25.0 U***	***25.0 U***	***125 U***	***25.0 U***	***125 U***	***50.0 U***	***50 U***	5.00 U	***25.0 U***	***250 U***	***250 U***	***250 U***	***250 U***	-	5.0 U	5.00 U	5.00 U	***25.0 U***	***12.5 U***	***250 U***	***50.0 U***	***50.0 U***	***250 U***	-	***130 U***	***50.0 U***	***50.0 U***	***25.0 U***	-
Trichloroethane, 1,1,1-	µg/L	5_{**}^{B}	2.00 U	***10.0 U***	***10.0 U***	***50.0 U***	***10.0 U***	***50.0 U***	***20.0 U***	***20 U***	2.00 U	***10.0 U***	***100 U***	***100 U***	***100 U***	***100 U***	***100 U***	2.0 U	2.00 U	2.00 U	***10.0 U***	5.00 U	***100 U***	***20.0 U***	***20.0 U***	***100 U***	***100 U***	***50 U***	***20.0 U***	***20.0 U***	***10.0 U***	2.00 U
Trichloroethane, 1,1,2-	µg/L	1^{B}	***2.00 U***	***10.0 U***	***10.0 U***	***50.0 U***	***10.0 U***	***50.0 U***	***20.0 U***	***20 U***	***2.00 U***	***10.0 U***	***100 U***	***100 U***	***100 U***	***100 U***	***100 U***	***2.0 U***	***2.00 U***	***2.00 U***	***10.0 U***	***5.00 U***	***100 U***	***20.0 U***	***20.0 U***	***100 U***	***100 U***	***50 U***	***20.0 U***	***20.0 U***	***10.0 U***	***2.00 U***
Trichloroethylene (TCE)	µg/L	5_{**}^{B}	**118**^{B}	**51.2**^{B}	**55.1**^{B}	***50.0 U***	***10.0 U***	***50.0 U***	***20.0 U***	**34**^{B}	3.28	***10.0 U***	**1140**^{B}	***100 U***	***100 U***	***100 U***	***100 U***	2.0 U	2.00 U	2.00 U	**651**^{B}	**57.1**^{B}	***100 U***	***20.0 U***	***20.0 U***	***100 U***	***100 U***	***50 U***	**167**^{B}	***20.0 U***	**12.0**^{B}	**38.8**^{B}
Trichlorofluoromethane (Freon 11)	µg/L	5_{**}^{B}	2.00 U	***10.0 U***	***10.0 U***	***50.0 U***	***10.0 U***	***50.0 U***	***20.0 U***	***20 U***	2.00 U	***10.0 U***	***100 U***	***100 U***	***100 U***	***100 U***	***100 U***	2.0 U	2.00 U	2.00 U	***10.0 U***	5.00 U	***100 U***	***20.0 U***	***20.0 U***	***100 U***	***100 U***	***50 U***	***20.0 U***	***20.0 U***	***10.0 U***	2.00 U
Trichlorotrifluoroethane (Freon 113)	µg/L	5_{**}^{B}	2.00 U	***10.0 U***	***10.0 U***	***50.0 U***	***10.0 U***	***50.0 U***	***20.0 U***	***20 U***	2.00 U	***10.0 U***	***100 U***	***100 U***	***100 U***	***100 U***	-	2.0 U	2.00 U	2.00 U	***10.0 U***	5.00 U	***100 U***	***20.0 U***	***20.0 U***	***100 U***	-	***50 U***	***20.0 U***	***20.0 U***	***10.0 U***	-
Trimethylbenzene, 1,2,4-	µg/L	5_{**}^{B}	5.00 U	***25.0 U***	***25.0 U***	***125 U***	***10.0 U***	***50.0 U***	***20.0 U***	-	-	-	***250 U***	***100 U***	***100 U***	***100 U***	-	-	-	-	***25.0 U***	***12.5 U***	***100 U***	***20.0 U***	***20.0 U***	***100 U***	-	-	-	-	***25.0 U***	-
Trimethylbenzene, 1,3,5-	µg/L	5_{**}^{B}	5.00 U	***25.0 U***	***25.0 U***	***125 U***	***10.0 U***	***50.0 U***	***20.0 U***	-	-	-	***250 U***	***100 U***	***100 U***	***100 U***	-	-	-	-	***25.0 U***	***12.5 U***	***100 U***	***20.0 U***	***20.0 U***	***100 U***	-	-	-	-	***25.0 U***	-
Vinyl Acetate	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	250 U	-	-	-	-	-	-	-	-	-	250 U	-	-	-	-	5.00 U
Vinyl chloride	µg/L	2^{B}	2.00 U	**29.3**^{B}	**123**^{B}	***50.0 U***	**752**^{B}	**532**^{B}	**48.6**^{B}	**410**^{B}	**67.9**^{B}	**127**^{B}	***100 U***	***100 U***	**183**^{B}	**945**^{B}	**879**^{B}	**13**^{B}	**81.8**^{B}	**6.65**^{B}	**23.3**^{B}	***5.00 U***	**717**^{B}	**997**^{B}	**1030**^{B}	**1060**^{B}	**790**^{B}	**1100**^{B}	**558**^{B}	**1040**^{B}	**11.3**^{B}	**6.60**^{B}
Xylene, m & p-	µg/L	5_{**}^{B}	2.00 U	***10.0 U***	***10.0 U***	***50.0 U***	***10.0 U***	***50.0 U***	***20.0 U***	***20 U***	2.00 U	***10.0 U***	***100 U***	***100 U***	***100 U***	***100 U***	***100 U***	2.0 U	2.00 U	2.00 U	***10.0 U***	5.00 U	***100 U***	***20.0 U***	***20.0 U***	***100 U***	***100 U***	***50 U***	***20.0 U***	***20.0 U***	***10.0 U***	2.00 U
Xylene, o-	µg/L	5_{**}^{B}	2.00 U	***10.0 U***	***10.0 U***	***50.0 U***	***10.0 U***	***50.0 U***	***20.0 U***	***20 U***	2.00 U	***10.0 U***	***100 U***	***100 U***	***100 U***	***100 U***	***100 U***	2.0 U	2.00 U	2.00 U	***10.0 U***	5.00 U	***100 U***	***20.0 U***	***20.0 U***	***100 U***	***100 U***	***50 U***	***20.0 U***	***20.0 U***	***10.0 U***	2.00 U
Total VOC	µg/L	n/v	148.6	586.9	1361.6	3300	1347.7	1185	70.2	827	139.98	162	5320	8600	2953	3665	1651	54.3	129.7	20.93	2666.9	466.1	4527	3322.4	3454.4	3690	2200	2100	1566	1704	486.9	132.72
Miscellaneous Parameters																																
Arsenic	mg/L	0.025^{B}	-	-	0.010 U	**0.026**^{B}	0.010 U	0.021	0.010 U	-	0.0100 U	-	0.010 U	**0.048**^{B}	0.013	0.024	-	-	**0.0432**^{B}	-	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	-	-	0.0100 U	-	-	-
Iron	mg/L	0.3_{*}^{B}	-	-	**1.54**^{B}	0.100 U	0.100 U	0.100 U	0.100 U	-	0.100 U	-	**3.42**^{B}	**20.8**^{B}	**2.35**^{B}	**19.3**^{B}	-	-	**16.9**^{B} **L**	-	**1.81**^{B}	0.100 U	**0.381**^{B}	**1.00**^{B}	**1.05**^{B}	**2.68**^{B}	-	-	0.144 L	-	-	-
Manganese	mg/L	0.3_{*}^{B}	-	-	0.058	0.224	0.047	0.089	0.042	-	0.0349	-	0.294	0.117	0.155	0.109	-	-	0.218 L	-	0.068	0.015 U	0.072	0.287	0.242	0.109	-	-	0.146 L	-	-	-
Sodium	mg/L	20^{B}	-	-	**343**^{B}	**653**^{B}	**587**^{B}	**613**^{B}	**387**^{B}	**960**^{B}	**503**^{B}	**444**^{B}	**1270**^{B}	**1250**^{B}	**407**^{B}	**1280**^{B}	**2290**^{B}	**2000**^{B}	**1160**^{B}	**2040**^{B}	**461**^{B}	**675**^{B}	**1070**^{B}	**590**^{B}	**598**^{B}	**659**^{B}	**758**^{B}	**820**^{B}	**340**^{B}	**575**^{B}	-	**991**^{B}
Total Organic Carbon	mg/L	n/v	-	-	7.0	263	12.1	23.0	3.3	850	108	22.0	5.2	122	8.5	8.9	20.5	750	144	92.0	4.3	4.4	5.7	3.9	5.7	4.2	16.2	230	49.6	42.0	-	929

See last page for notes.

Table 9-3
Summary of Volatile Organic Compounds in Groundwater – September 2011 to July 2013
GERMANOW-SIMON CORPORATION
PROGRESS REPORT NO. 9 – SEMI-ANNUAL REPORT – MPVE OM&M, WARD STREET SITE
ROCHESTER, NY

Area of Interest			8-28 Ward St																	
Sample Location			MW23										MW23R							
Sample Date			28-Sep-11	5-Jan-12	6-Feb-12	2-Mar-12	5-Jun-12	5-Jun-12	6-Sep-12	24-Jan-13	10-Apr-13	5-Jul-13	28-Sep-11	5-Jan-12	6-Feb-12	2-Mar-12	5-Jun-12	6-Sep-12	24-Jan-13	10-Apr-13	5-Jul-13
Sample ID			WSR-MW-23-GW-7	828-MW-23-GW-8	828-MW-23-GW-9	828-MW-23-GW-10	828-MW-23-GW-11	828-MW-DUP-GW-11	828-MW-23-GW-12	828-MW-23-GW	828-MW-23-GW	828-MW-23-GW	WSR-MW-23R-GW-7	828-MW-23R-GW-8	828-MW-23R-GW-9	828-MW-23R-GW-10	828-MW-23R-GW-11	828-MW-23R-GW-12	828-MW-23R-GW	828-MW-23R-GW	828-MW-23R-GW
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order			P11-4106	P12-0069	12:0488	12:0936	12:2364	12:2364	12:3694	13:0365	131242	132505	P11-4106	P12-0069	12:0488	12:0936	12:2364	12:3694	13:0365	131242	132505
Laboratory Sample ID			14150	12:0069-06	12:0488-02	12:0936-05	12:2364-02	12:2364-03	12:3694-05	130365-05	131242-02	132505-03	14151	12:0069-05	12:0488-03	12:0936-06	12:2364-04	12:3694-06	130365-04	131242-03	132505-02
Sample Type	Units	TOGS						Field Duplicate													
Volatile Organic Compounds																					
Acetone	µg/L	50[A]	***100 U***	***500 U***	***500 U***	***500 U***	***1000 U***	***1000 U***	***1000 U***	***1000 U***	***100 U***	***100 U***	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	30.6	10 U	10.0 U	11.1
Benzene	µg/L	1[B]	***7.00 U***	***35.0 U***	***35.0 U***	***35.0 U***	***70.0 U***	***70.0 U***	***70.0 U***	***70 U***	***7.00 U***	***7.00 U***	0.700 U	0.700 U	0.700 U	0.700 U	0.700 U	0.700 U	0.70 U	0.700 U	0.700 U
Bromobenzene	µg/L	5-[B]	-	-	-	-	-	-	-	***500 U***	***50.0 U***	-	-	-	-	-	-	-	5.0 U	5.00 U	-
Bromodichloromethane	µg/L	50[A]	20.0 U	***100 U***	***100 U***	***100 U***	***200 U***	***200 U***	***200 U***	***200 U***	20.0 U	20.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Bromoform (Tribromomethane)	µg/L	50[A]	50.0 U	***250 U***	***250 U***	***250 U***	***500 U***	***500 U***	***500 U***	***500 U***	50.0 U	50.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.0 U	5.00 U	5.00 U
Bromomethane (Methyl bromide)	µg/L	5-[B]	***20.0 U***	***100 U***	***100 U***	***100 U***	***200 U***	***200 U***	***200 U***	***200 U***	***20.0 U***	***20.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Butylbenzene, n-	µg/L	5-[B]	***50.0 U***	***250 U***	***100 U***	***100 U***	***200 U***	***200 U***	-	-	-	-	5.00 U	5.00 U	2.00 U	2.00 U	2.00 U	-	-	-	-
Butylbenzene, sec- (2-Phenylbutane)	µg/L	5-[B]	***50.0 U***	***250 U***	***100 U***	***100 U***	***200 U***	***200 U***	-	-	-	-	5.00 U	5.00 U	2.00 U	2.00 U	2.00 U	-	-	-	-
Butylbenzene, tert-	µg/L	5-[B]	***50.0 U***	***250 U***	***100 U***	***100 U***	***200 U***	***200 U***	-	-	-	-	5.00 U	5.00 U	2.00 U	2.00 U	2.00 U	-	-	-	-
Carbon Disulfide	µg/L	60[A]	50.0 U	***250 U***	***100 U***	***100 U***	***200 U***	***200 U***	***200 U***	***200 U***	20.0 U	20.0 U	5.00 U	5.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	***20.0 U***	***100 U***	***100 U***	***100 U***	***200 U***	***200 U***	***200 U***	***200 U***	***20.0 U***	***20.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Chlorobenzene (Monochlorobenzene)	µg/L	5-[B]	***20.0 U***	***100 U***	***100 U***	***100 U***	***200 U***	***200 U***	***200 U***	***200 U***	***20.0 U***	***20.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Chlorobromomethane	µg/L	5-[B]	***50.0 U***	***250 U***	***250 U***	***250 U***	***500 U***	***500 U***	-	***500 U***	***50.0 U***	***50.0 U***	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	-	5.0 U	5.00 U	5.00 U
Chloroethane (Ethyl Chloride)	µg/L	5-[B]	***20.0 U***	***100 U***	***100 U***	***100 U***	***200 U***	***200 U***	***200 U***	***200 U***	***20.0 U***	***20.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Chloroethyl Vinyl Ether, 2-	µg/L	n/v	-	-	-	-	-	-	1000 U	1000 U	100 U	-	-	-	-	-	-	10.0 U	10 U	10.0 U	-
Chloroform (Trichloromethane)	µg/L	7[B]	***20.0 U***	***100 U***	***100 U***	***100 U***	***200 U***	***200 U***	***200 U***	***200 U***	***20.0 U***	***20.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Chloromethane	µg/L	5-[B]	***20.0 U***	***100 U***	***100 U***	***100 U***	***200 U***	***200 U***	***200 U***	***200 U***	***20.0 U***	***20.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Cyclohexane	µg/L	n/v	100 U	500 U	500 U	500 U	1000 U	1000 U	-	1000 U	100 U	100 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	-	10 U	10.0 U	10.0 U
Dibromo-3-Chloropropane, 1,2- (DBCP)	µg/L	0.04[B]	***100 U***	***500 U***	***500 U***	***500 U***	***1000 U***	***1000 U***	-	***1000 U***	***100 U***	***100 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	-	***10 U***	***10.0 U***	***10.0 U***
Dibromochloromethane	µg/L	50[A]	20.0 U	***100 U***	***100 U***	***100 U***	***200 U***	***200 U***	***200 U***	***200 U***	20.0 U	20.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Dichlorobenzene, 1,2-	µg/L	3[B]	***20.0 U***	***100 U***	***100 U***	***100 U***	***200 U***	***200 U***	***200 U***	***200 U***	***20.0 U***	***20.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Dichlorobenzene, 1,3-	µg/L	3[B]	***20.0 U***	***100 U***	***100 U***	***100 U***	***200 U***	***200 U***	***200 U***	***200 U***	***20.0 U***	***20.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Dichlorobenzene, 1,4-	µg/L	3[B]	***20.0 U***	***100 U***	***100 U***	***100 U***	***200 U***	***200 U***	***200 U***	***200 U***	***20.0 U***	***20.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Dichlorodifluoromethane (Freon 12)	µg/L	5-[B]	***50.0 U***	***250 U***	***100 U***	***100 U***	***200 U***	***200 U***	-	***200 U***	***20.0 U***	***20.0 U***	5.00 U	5.00 U	2.00 U	2.00 U	2.00 U	-	2.0 U	2.00 U	2.00 U
Dichloroethane, 1,1-	µg/L	5-[B]	***20.0 U***	***100 U***	***100 U***	***100 U***	***200 U***	***200 U***	***200 U***	***200 U***	***20.0 U***	***20.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Dichloroethane, 1,2-	µg/L	0.6[B]	***20.0 U***	***100 U***	***100 U***	***100 U***	***200 U***	***200 U***	***200 U***	***200 U***	***20.0 U***	***20.0 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.0 U***	***2.00 U***	***2.00 U***
Dichloroethene, 1,1-	µg/L	5-[B]	***20.0 U***	***100 U***	***100 U***	***100 U***	***200 U***	***200 U***	***200 U***	***200 U***	***20.0 U***	***20.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Dichloroethylene, cis-1,2-	µg/L	5-[B]	***20.0 U***	***100 U***	**4130[B]**	**10900[B]**	**5120[B]**	**5240[B]**	**3940[B]**	**8900[B]**	**242[B]**	**862[B]**	**63.8[B]**	**82.4[B]**	**17.4[B]**	**13.1[B]**	**32.6[B]**	**5.30[B]**	**5.8[B]**	**5.83[B]**	4.81
Dichloroethylene, trans-1,2-	µg/L	5-[B]	***20.0 U***	***100 U***	***100 U***	***100 U***	***200 U***	***200 U***	***200 U***	***200 U***	***20.0 U***	***20.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Dichloropropane, 1,2-	µg/L	1[B]	***20.0 U***	***100 U***	***100 U***	***100 U***	***200 U***	***200 U***	***200 U***	-	-	***20.0 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	-	-	***2.00 U***
Dichloropropane, 1,3-	µg/L	5-[B]	-	-	-	-	-	-	-	***200 U***	***20.0 U***	-	-	-	-	-	-	-	2.0 U	2.00 U	-
Dichloropropane, 2,2-	µg/L	5-[B]	-	-	-	-	-	-	-	***200 U***	***20.0 U***	-	-	-	-	-	-	-	2.0 U	2.00 U	-
Dichloropropene, cis-1,3-	µg/L	0.4[p][B]	***20.0 U***	***100 U***	***100 U***	***100 U***	***200 U***	***200 U***	***200 U***	-	-	***20.0 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	-	-	***2.00 U***
Dichloropropene, trans-1,3-	µg/L	0.4[p][B]	***20.0 U***	***100 U***	***100 U***	***100 U***	***200 U***	***200 U***	***200 U***	***200 U***	***20.0 U***	***20.0 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.0 U***	***2.00 U***	***2.00 U***
Dioxane, 1,4-	µg/L	n/v	-	-	-	-	-	-	-	200 U0	200 U	200 U	-	-	-	-	-	-	20 U	20.0 U	20.0 U
Ethylbenzene	µg/L	5-[B]	***20.0 U***	***100 U***	***100 U***	***100 U***	***200 U***	***200 U***	***200 U***	***200 U***	***20.0 U***	***20.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.0006[B]	***20.0 U***	***100 U***	***100 U***	***100 U***	***200 U***	***200 U***	-	***200 U***	***20.0 U***	***20.0 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	-	***2.0 U***	***2.00 U***	***2.00 U***
Hexanone, 2- (Methyl Butyl Ketone)	µg/L	50[A]	50.0 U	***250 U***	***250 U***	***250 U***	***500 U***	***500 U***	***500 U***	***500 U***	50.0 U	50.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.0 U	5.00 U	5.00 U
Isopropylbenzene	µg/L	5-[B]	***50.0 U***	***250 U***	***100 U***	***100 U***	***200 U***	***200 U***	-	-	***20.0 U***	***20.0 U***	5.00 U	5.00 U	2.00 U	2.00 U	2.00 U	-	-	2.00 U	2.00 U
Isopropyltoluene, p- (Cymene)	µg/L	5-[B]	***20.0 U***	***100 U***	***100 U***	***100 U***	***200 U***	***200 U***	-	-	-	-	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	-	-	-
Methyl Acetate	µg/L	n/v	20.0 U	100 U	100 U	100 U	200 U	200 U	-	200 U	20.0 U	20.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	2.0 U	2.00 U	2.00 U
Methyl Ethyl Ketone (MEK)	µg/L	50[A]	***100 U***	***500 U***	***500 U***	***500 U***	***1000 U***	***1000 U***	***1000 U***	***1000 U***	***100 U***	***100 U***	10.0 U	10.0 U	11.9	10.0 U	10.0 U	10.0 U	**130[A]**	**80.7[A]**	**76.9[A]**
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	50.0 U	250 U	250 U	250 U	500 U	500 U	500 U	500 U	50.0 U	50.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.0 U	5.00 U	5.00 U
Methyl tert-butyl ether (MTBE)	µg/L	10[A]	***20.0 U***	***100 U***	***100 U***	***100 U***	***200 U***	***200 U***	-	***200 U***	***20.0 U***	***20.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	2.0 U	2.00 U	2.00 U
Methylcyclohexane	µg/L	n/v	20.0 U	100 U	100 U	100 U	200 U	200 U	-	200 U	20.0 U	20.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	2.0 U	2.00 U	2.00 U
Methylene Chloride (Dichloromethane)	µg/L	5-[B]	***50.0 U***	***250 U***	***250 U***	***250 U***	***500 U***	***500 U***	***500 U***	***500 U***	***50.0 U***	***50.0 U***	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.0 U	5.00 U	5.00 U
Naphthalene	µg/L	10[B]	***50.0 U***	***250 U***	***250 U***	***250 U***	***500 U***	***500 U***	-	-	-	-	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	-	-	-	-
Propylbenzene, n-	µg/L	5-[B]	***50.0 U***	***250 U***	***100 U***	***100 U***	***200 U***	***200 U***	-	-	-	-	5.00 U	5.00 U	2.00 U	2.00 U	2.00 U	-	-	-	-
Styrene	µg/L	5-[B]	***50.0 U***	***250 U***	***250 U***	***250 U***	***500 U***	***500 U***	***500 U***	***500 U***	***50.0 U***	***50.0 U***	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.0 U	5.00 U	5.00 U
Tetrachloroethane, 1,1,2,2-	µg/L	5-[B]	***20.0 U***	***100 U***	***100 U***	***100 U***	***200 U***	***200 U***	***200 U***	***200 U***	***20.0 U***	***20.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Tetrachloroethylene (PCE)	µg/L	5-[B]	**2240[B]**	**4010[B]**	**2500[B]**	**107[B]**	**1150[B]**	**1130[B]**	***200 U***	***200 U***	***20.0 U***	***20.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Toluene	µg/L	5-[B]	***20.0 U***	***100 U***	***100 U***	***100 U***	***200 U***	***200 U***	***200 U***	***200 U***	***20.0 U***	***20.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Trichlorobenzene, 1,2,3-	µg/L	5-[B]	***50.0 U***	***250 U***	***250 U***	***250 U***	***500 U***	***500 U***	-	***500 U***	***50.0 U***	***50.0 U***	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	-	5.0 U	5.00 U	5.00 U
Trichlorobenzene, 1,2,4-	µg/L	5-[B]	***50.0 U***	***250 U***	***250 U***	***250 U***	***500 U***	***500 U***	-	***500 U***	***50.0 U***	***50.0 U***	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	-	5.0 U	5.00 U	5.00 U
Trichloroethane, 1,1,1-	µg/L	5-[B]	***20.0 U***	***100 U***	***100 U***	***100 U***	***200 U***	***200 U***	***200 U***	***200 U***	***20.0 U***	***20.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Trichloroethane, 1,1,2-	µg/L	1[B]	***20.0 U***	***100 U***	***100 U***	***100 U***	***200 U***	***200 U***	***200 U***	***200 U***	***20.0 U***	***20.0 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.0 U***	***2.00 U***	***2.00 U***
Trichloroethylene (TCE)	µg/L	5-[B]	**36.4[B]**	***100 U***	**407[B]**	***100 U***	**562[B]**	**549[B]**	***200 U***	***200 U***	***20.0 U***	***20.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Trichlorofluoromethane (Freon 11)	µg/L	5-[B]	***20.0 U***	***100 U***	***100 U***	***100 U***	***200 U***	***200 U***	***200 U***	***200 U***	***20.0 U***	***20.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Trichlorotrifluoroethane (Freon 113)	µg/L	5-[B]	***20.0 U***	***100 U***	***100 U***	***100 U***	***200 U***	***200 U***	-	***200 U***	***20.0 U***	***20.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	2.0 U	2.00 U	2.00 U
Trimethylbenzene, 1,2,4-	µg/L	5-[B]	***50.0 U***	***250 U***	***100 U***	***100 U***	***200 U***	***200 U***	-	-	-	-	5.00 U	5.00 U	2.00 U	2.00 U	2.00 U	-	-	-	-
Trimethylbenzene, 1,3,5-	µg/L	5-[B]	***50.0 U***	***250 U***	***100 U***	***100 U***	***200 U***	***200 U***	-	-	-	-	5.00 U	5.00 U	2.00 U	2.00 U	2.00 U	-	-	-	-
Vinyl Acetate	µg/L	n/v	-	-	-	-	-	-	500 U	-	-	-	-	-	-	-	-	5.00 U	-	-	-
Vinyl chloride	µg/L	2[B]	***20.0 U***	***100 U***	***100 U***	***100 U***	**1090[B]**	**1130[B]**	**1110[B]**	**970[B]**	**154[B]**	**636[B]**	**2.21[B]**	2.00 U	2.00 U	2.00 U	**5.95[B]**	**3.46[B]**	2.0 U	2.00 U	2.00 U
Xylene, m & p-	µg/L	5-[B]	***20.0 U***	***100 U***	***100 U***	***100 U***	***200 U***	***200 U***	***200 U***	***200 U***	***20.0 U***	***20.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Xylene, o-	µg/L	5-[B]	***20.0 U***	***100 U***	***100 U***	***100 U***	***200 U***	***200 U***	***200 U***	***200 U***	***20.0 U***	***20.0 U***	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.00 U	2.00 U
Total VOC	µg/L	n/v	2276.4	4010	7037	11007	7922	8049	5050	9870	396	1498	66.01	82.4	29.3	13.1	38.55	39.36	135.8	86.53	92.81
Miscellaneous Parameters																					
Arsenic	mg/L	0.025[B]	0.010 U	0.010 U	0.018	0.014	0.021	0.021	-	-	0.0217	-	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	-	-	0.0100 U	-
Iron	mg/L	0.3[B]	0.100 U	**111[B]**	**23.3[B]**	**12.5[B]**	**15.7[B]**	**15.5[B]**	-	-	**13.2[B] L**	-	**0.819[B]**	**3.04[B]**	**7.52[B]**	**3.08[B]**	**4.21[B]**	-	-	**3.08[B] L**	-
Manganese	mg/L	0.3[B]	0.226	**4.07[B]**	0.161	**0.523[B]**	0.165	0.189	-	-	**0.445[B] L**	-	0.040	0.129	0.053	0.081 M	0.034	-	-	0.0702 L	-
Sodium	mg/L	20[B]	**1450[B]**	**1660[B]**	**1090[B]**	**1090[B]**	**1130[B]**	**1150[B]**	**1120[B]**	**1300[B]**	**1000[B]**	**924[B]**	**417[B]**	**392[B]**	**751[B]**	**766[B]**	**458[B]**	**568[B]**	**1200[B]**	**529[B]**	**913[B]**
Total Organic Carbon	mg/L	n/v	3.7	1880	118	68.4	6.0	6.0	64.3	560	165	23.0	3.6	38.4	33.0	31.1	4.0	58.6	670	368	86.0

See last page for notes.

Table 9-3
Summary of Volatile Organic Compounds in Groundwater – September 2011 to July 2013
GERMANOW-SIMON CORPORATION
PROGRESS REPORT NO. 9 – SEMI-ANNUAL REPORT – MPVE OM&M, WARD STREET SITE
ROCHESTER, NY

Area of Interest																										
Sample Location														QAQC												
Sample Date			4-Jan-12	5-Jan-12	2-Feb-12	3-Feb-12	6-Feb-12	29-Feb-12	1-Mar-12	2-Mar-12	4-Jun-12	5-Jun-12	6-Jun-12	4-Sep-12	5-Sep-12	6-Sep-12	22-Jan-13	23-Jan-13	24-Jan-13	10-Apr-13	11-Apr-13	12-Apr-13	2-Jul-13	3-Jul-13	5-Jul-13
Sample ID			Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order			P12-0041	P12-0069	12:0443	12:0472	12:0488	12:0868	12:0906	12:0936	12:2335	12:2364	12:2392	12:3644	12:3668	12:3694	13:0329	13:0353	13:0365	131242	131259	131283	132471	132490	132505
Laboratory Sample ID			12:0041-01	12:0069-01	12:0443-01	12:0472-01	12:0488-01	12:0868-01	12:0906-01	12:0936-01	12:2335-01	12:2364-01	12:2392-01	12:3644-01	12:3668-01	12:3694-01	130329-01	130353-01	130365-01	131242-01	131259-01	131283-01	132471-01	132490-01	132505-01
Sample Type	Units	TOGS	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
Volatile Organic Compounds																										
Acetone	µg/L	50[A]	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	28.1 B	10.0 U	10.0 U	10 U	10 U	10 U	13.3	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Benzene	µg/L	1[B]	0.700 U	0.700 U	0.700 U	0.700 U	0.700 U	0.700 U	0.700 U	0.700 U	0.700 U	0.700 U	0.700 U	0.700 U	0.700 U	0.700 U	0.70 U	0.70 U	0.70 U	0.700 U	0.700 U	0.700 U	0.700 U	0.700 U	0.700 U
Bromobenzene	µg/L	5[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bromodichloromethane	µg/L	50[A]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Bromoform (Tribromomethane)	µg/L	50[A]	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.0 U	5.0 U	5.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bromomethane (Methyl bromide)	µg/L	5[B]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Butylbenzene, n-	µg/L	5[B]	5.00 U	5.00 U	5.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzene, sec- (2-Phenylbutane)	µg/L	5[B]	5.00 U	5.00 U	5.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzene, tert-	µg/L	5[B]	5.00 U	5.00 U	5.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	µg/L	60[A]	5.00 U	5.00 U	5.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5[B]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Chlorobenzene (Monochlorobenzene)	µg/L	5[B]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Chlorobromomethane	µg/L	5[B]	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	-	-	-	5.0 U	5.0 U	5.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chloroethane (Ethyl Chloride)	µg/L	5[B]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Chloroethyl Vinyl Ether, 2-	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	10.0 U	10.0 U	10.0 U	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	7[B]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Chloromethane	µg/L	5[B]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Cyclohexane	µg/L	n/v	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	-	-	-	10 U	10 U	10 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Dibromo-3-Chloropropane, 1,2- (DBCP)	µg/L	0.04[B]	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	-	-	-	***10 U***	***10 U***	***10 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***	***10.0 U***
Dibromochloromethane	µg/L	50[A]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichlorobenzene, 1,2-	µg/L	3[B]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichlorobenzene, 1,3-	µg/L	3[B]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichlorobenzene, 1,4-	µg/L	3[B]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichlorodifluoromethane (Freon 12)	µg/L	5[B]	5.00 U	5.00 U	5.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	-	-	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichloroethane, 1,1-	µg/L	5[B]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichloroethane, 1,2-	µg/L	0.6[B]	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.0 U***	***2.0 U***	***2.0 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***
Dichloroethene, 1,1-	µg/L	5[B]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichloroethylene, cis-1,2-	µg/L	5[B]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichloroethylene, trans-1,2-	µg/L	5[B]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichloropropane, 1,2-	µg/L	1[B]	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.0 U***	***2.0 U***	***2.0 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***
Dichloropropane, 1,3-	µg/L	5[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropane, 2,2-	µg/L	5[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dichloropropene, cis-1,3-	µg/L	0.4[B]p	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.0 U***	***2.0 U***	***2.0 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***
Dichloropropene, trans-1,3-	µg/L	0.4[B]p	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.0 U***	***2.0 U***	***2.0 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***
Dioxane, 1,4-	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20 U	20 U	20 U	20.0 U	20.0 U	20.0 U	< 20.0	< 20.0	< 20.0
Ethylbenzene	µg/L	5[B]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.0006[B]	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	-	-	-	***2.0 U***	***2.0 U***	***2.0 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***
Hexanone, 2- (Methyl Butyl Ketone)	µg/L	50[A]	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.0 U	5.0 U	5.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Isopropylbenzene	µg/L	5[B]	5.00 U	5.00 U	5.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	-	-	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Isopropyltoluene, p- (Cymene)	µg/L	5[B]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Acetate	µg/L	n/v	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	-	-	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Methyl Ethyl Ketone (MEK)	µg/L	50[A]	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10 U	10 U	10 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.0 U	5.0 U	5.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Methyl tert-butyl ether (MTBE)	µg/L	10[A]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	-	-	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Methylcyclohexane	µg/L	n/v	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	-	-	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Methylene Chloride (Dichloromethane)	µg/L	5[B]	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.0 U	5.0 U	5.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Naphthalene	µg/L	10[B]	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	-	-	-	-	-	-	-	-	-	-	-	-
Propylbenzene, n-	µg/L	5[B]	5.00 U	5.00 U	5.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	5[B]	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.0 U	5.0 U	5.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Tetrachloroethane, 1,1,2,2-	µg/L	5[B]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Tetrachloroethylene (PCE)	µg/L	5[B]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Toluene	µg/L	5[B]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Trichlorobenzene, 1,2,3-	µg/L	5[B]	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	-	-	-	5.0 U	5.0 U	5.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Trichlorobenzene, 1,2,4-	µg/L	5[B]	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	-	-	-	5.0 U	5.0 U	5.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Trichloroethane, 1,1,1-	µg/L	5[B]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Trichloroethane, 1,1,2-	µg/L	1[B]	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.0 U***	***2.0 U***	***2.0 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***	***2.00 U***
Trichloroethylene (TCE)	µg/L	5[B]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Trichlorofluoromethane (Freon 11)	µg/L	5[B]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Trichlorotrifluoroethane (Freon 113)	µg/L	5[B]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	-	-	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Trimethylbenzene, 1,2,4-	µg/L	5[B]	5.00 U	5.00 U	5.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	-	-	-	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,3,5-	µg/L	5[B]	5.00 U	5.00 U	5.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Acetate	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	5.00 U	5.00 U	5.00 U	-	-	-	-	-	-	-	-	-
Vinyl chloride	µg/L	2[B]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Xylene, m & p-	µg/L	5[B]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Xylene, o-	µg/L	5[B]	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.0 U	2.0 U	2.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Total VOC	µg/L	n/v	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	28.1	ND	ND	ND	ND	ND	13.3	ND	ND	ND	ND	ND
Miscellaneous Parameters																									
Arsenic	mg/L	0.025[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/L	0.3[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/L	0.3[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	mg/L	20[B]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon	mg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

TOGS	NYSDEC TOGS 1.1.1 (Reissued June 1998 with errata in January 1999 and addenda in April 2000 and June 2004)
[A]	TOGS 1.1.1 - Table 1 - Ambient Water Quality Standards and Guidance Values, Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1); Guidance
[B]	TOGS 1.1.1 - Table 1 - Ambient Water Quality Standards and Guidance Values, Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1); Standards
6.5[A]	Concentration exceeds the indicated standard.
15.2	Concentration was detected but did not exceed applicable standards.
0.50 U	Laboratory estimated quantitation limit exceeded standard.
0.03 U	The analyte was not detected above the laboratory estimated quantitation limit.
n/v	No standard/guideline value.
-	Parameter not analyzed / not available.
-	The standard for Iron and Manganese is 500 ug/L, which applies to the sum of these substances.
	As individual standards, the standard is 300 ug/L.
**	The principal organic contaminant standard for groundwater of 5 ug/L (described elsewhere in the TOGS table) applies to this substance.
[P]	Applies to the sum of cis- and trans-1,3-dichloropropene.
B	Indicates analyte was found in associated blank, as well as in the sample.
L	Laboratory Control Sample recovery outside accepted QC limits.
M	Denotes matrix spike recoveries outside QC limits. Matrix bias indicated.

Table 9-7
Summary of Field Parameters in Groundwater – September 2011 to July 2013
GERMANOW-SIMON CORPORATION
PROGRESS REPORT NO. 9 – SEMI-ANNUAL REPORT – MPVE OM&M, WARD STREET SITE
ROCHESTER, NY

Area of interest		On-Site Area 1: Building B Annex																												
Sample Location		MW15		MW22									MW22R								MW105									
Sample Date		27-Sep-11	5-Jan-12	27-Sep-11	4-Jan-12	2-Feb-12	29-Feb-12	4-Jun-12	22-Jan-13	12-Apr-13	2-Jul-13	27-Sep-11	4-Jan-12	2-Feb-12	29-Feb-12	4-Jun-12	22-Jan-13	12-Apr-13	2-Jul-13	28-Sep-11	4-Jan-12	2-Feb-12	29-Feb-12	4-Jun-12	4-Sep-12	22-Jan-13	11-Apr-13	2-Jul-13
Sample ID		WSR-MW-15-GW-12	WSR-MW-15-GW-13	WSR-MW-22-GW-12	WSR-MW-22-GW-13	WSR-MW-22-GW-14	WSR-MW-22-GW-15	WSR-MW-22-GW-16	WSR-MW-22-GW	WSR-MW-22-GW	WSR-MW-22-GW	WSR-MW-22R-GW-12	WSR-MW-22R-GW-13	WSR-MW-22R-GW-14	WSR-MW-22R-GW-15	WSR-MW-22R-GW-16	WSR-MW-22R-GW	WSR-MW-22R-GW	WSR-MW-22R-GW	WSR-MW-105-GW-12	WSR-MW-105-GW-13	WSR-MW-105-GW-14	WSR-MW-105-GW-15	WSR-MW-105-GW-16	WSR-MW-105-GW-17	WSR-MW-105-GW	WSR-MW-105-GW	WSR-MW-105-GW
Sampling Company	Units	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Field Parameters																														
Color (Visual)	none	0	clear	0	clear w/ black flecks	gray	clear w/ black flecks	clear	dark	Black in color	very slightly cloudy	0	dark	clear w/ black flecks	clear w/ black flecks	clear w/ black flecks	dark	Little black precipitate	Clear with black precipitate	clear	clear	clear	clear	clear	cloudy	clear	Black precipitate	clear with some brown precipitate
Conductivity, Field	mS/cm	3.13	3.33	5.86	5.96	0.517	4.69	0.520	5.80	5.51	5.04	3.64	4.19	0.420	4.13	0.446	6.10	5.40	5.11	2.50	2.72	0.267	2.36	0.318	2.60	4.66	2.71	2.55
Dissolved Oxygen, Field	mg/L	0	0.00	0.0	0.31	0.00	0.00	0.78	0.19	0.34	0.10	7.13	0.35	0.00	0.00	0.60	0.28	0.25	0.07	0.00	0.53	0.00	0.25	0.97	0.53	0.17	0.79	0.32
Odor	none	0	no odor	0	odor	odor	odor (sulfur?)	sulfur smell	sulfur	Sulfur odor	sulfur odor	0	sulfur smell	odor sulfur?	odor (sulfur?)	sulfur odor	sulfur odor	Strong sulfur odor	strong sulfur odor	none	no odor	no odor	no odor	sulfur odor	no odor	sulfur odor	Strong sulfur odor	none
Oxidation Reduction Potential	mV	95	-208	-187	-482	-533	-374	-321	-335.0	-338.5	-337.7	-65	-462	-349	-354	-450	-308.1	-291.8	-339.5	111	227	297	235	-132	195.3	-199.2	-219.6	-152.6
pH, Field	S.U.	6.88	7.22	7.00	6.96	7.06	7.40	6.83	6.71	10.25	7.16	6.57	6.98	7.01	7.09	6.72	6.66	10.10	6.92	6.87	7.25	7.28	7.33	7.09	7.16	6.90	7.37	8.47
Temperature, Field	deg C	20.92	13.36	19.55	20.57	18.73	19.82	18.4	18.1	18.2	19.2	19.01	19.87	17.74	18.71	18.4	17.7	17.7	18.7	20.46	20.49	19.22	20.43	19.4	21.3	18.9	18.7	19.6
Turbidity, Field	ntu	2.8	2.58	20	1.45	2.69	7.95	2.87	5.46	4.73	8.25	7.3	1.78	0.71	1.21	6.16	5.61	6.34	14.8	58.5	31.3	3.44	9.75	4.41	17.6	4.99	4.36	5.56
Volume Purged	gal	0.7	1.0	0.6	1.0 ~	2.7	0.4	1.0	1.4	3.0	1.0	1.4	1.0 ~	1.0	3.2	1.0	2.2	2.0	1.8	0.6	3 ~	3.5 ~	2.0	1.0	1.1	2.7	1.3	1.35

See last page for notes.

Table 9-7
Summary of Field Parameters in Groundwater – September 2011 to July 2013
GERMANOW-SIMON CORPORATION
PROGRESS REPORT NO. 9 – SEMI-ANNUAL REPORT – MPVE OM&M, WARD STREET SITE
ROCHESTER, NY

Area of interest		On-Site Area 1: Building B Annex (continued)																														
Sample Location		MW200						MW200R							MW201	MW202	MW203	MW203R	MW204	MW205	MW205R	MW206R		MW207R								
Sample Date		28-Sep-11	1-Mar-12	6-Jun-12	22-Jan-13	10-Apr-13	2-Jul-13	28-Sep-11	3-Feb-12	29-Feb-12	4-Jun-12	22-Jan-13	10-Apr-13	2-Jul-13	4-Sep-12	4-Sep-12	28-Sep-11	28-Sep-11	4-Sep-12	28-Sep-11	28-Sep-11	27-Sep-11	6-Sep-12	27-Sep-11	6-Feb-12	2-Mar-12	6-Jun-12	6-Sep-12	24-Jan-13	12-Apr-13	5-Jul-13
Sample ID		WSR-MW-200 GW-18	WSR-MW-200 GW-20	WSR-MW-200 GW-21	WSR-MW-200 GW	WSR-MW-200 GW	WSR-MW-200 GW	WSR-MW-200R-GW-18	WSR-MW-200R-GW-19	WSR-MW-200R-GW-20	WSR-MW-200R-GW-21	WSR-MW-200R-GW	WSR-MW-200R-GW	WSR-MW-200R-GW	WSR-MW-201 GW	WSR-MW-202 GW	WSR-MW-203 GW-1	WSR-MW-203R-GW-1	WSR-MW-204 GW	WSR-MW-205 GW-1	WSR-MW-205R-GW-1	WSR-MW-206R-GW-12	WSR-MW-206R-GW	WSR-MW-207R-GW-12	WSR-MW-207R-GW-13	WSR-MW-207R-GW-14	WSR-MW-207R-GW-15	WSR-MW-207R-GW-16	WSR-MW-207R-GW	WSR-MW-207R-GW	WSR-MW-207R-GW
Sampling Company	Units	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Field Parameters																																
Color (Visual)	none	clear	clear w/ black flecks	clear w/ black flecks	slightly black	Slightly yellow tint	clear with black precipitate	clear	black	clear w/ black flecks	clear	black	Black precipitate	clear with black precipitate	clear w/ black flecks	clear	clear	clear	clear w/ black flecks	clear	clear	clear	clear w/ black flecks	clear	clear w/ black flecks	clear w/ black flecks	clear	clear w/ black flecks	murky w/ black flecks	Black precipitate	clear with black precipitate
Conductivity, Field	mS/cm	2.23	4.00	0.286	3.92	3.49	3.24	3.13	0.434	3.99	0.447	4.49	3.45	3.08	2.48	3.58	5.7	0.86	4.71	0.55	0.60	0.43	4.18	0.50	0.541	4.32	0.490	4.59	49.93	3.85	4.00
Dissolved Oxygen, Field	mg/L	0.00	0.00	0.72	0.05	0.29	0.06	0.00	0.00	0.08	0.77	0.06	0.27	0.06	0.06	0.07	0.9	0.4	0.14	0.4	0.4	0.4	0.62	0.7	0.00	0.00	0.62	0.41	0.36	0.74	0.15
Odor	none	none	stale odor	no odor	sulfur odor	Sulfur odor	sulfur odor	none	odor	no odor	sulfur odor	sulfur odor	Stale well odor	stale, then sulfur	sulfur	sulfur	none	none	stale well odor	none	no	slight odor	sulfur	sulfur odor	odor	sulfur odor	strong sulfur odor	sulfur	sulfur odor	odor	strong sulfur odor
Oxidation Reduction Potential	mV	87	-210	-336	-300.4	-233.3	-109.4	-103	-485	-398	-377	-266.6	-292.2	-321.4	-223.9	-324.3	91	-122	-96.9	-130	-78	-138	-344.5	-134	-345	-374	-358	-301.6	-351.9	-346.1	-349.2
pH, Field	S.U.	6.78	7.23	7.17	7.21	7.17	7.00	6.81	6.85	7.02	6.79	6.62	7.02	9.80	7.38	7.47	7.19	7.18	6.95	7.28	6.98	6.87	6.98	6.93	6.73	7.22	6.68	6.87	6.77	8.04	6.78
Temperature, Field	deg C	20.85	20.79	19.9	19.5	19.2	20.2	19.94	18.62	19.78	19.0	18.7	18.3	19.2	22.1	21.6	15.6	19.0	21.7	18.8	18.2	18.1	20.6	17.9	14.27	13.28	15.9	20.1	14.0	11.7	18.7
Turbidity, Field	ntu	5.01	6.40	2.12	10.43	8.19	7.13	4.66	7.35	6.36	-0.72	6.78	10.39	7.86	11.29	2.38	10.40	73.1	12.4	27.7	12.4	3.65	3.12	4.21	-0.29	5.79	0.70	3.92	1.72	2.31	3.53
Volume Purged	gal	0.7	0.5	0.7	3.3	0.8	0.8	0.5	2.2	2.1	0.6	2.3	0.8	1.4	1.0	0.9	2.7	1.2	0.9	0.7	1.3	0.9	1.3	1.5	1.1	0.5	1.3	1.2	3.6	1.6	2.0

See last page for notes.

Table 9-7
Summary of Field Parameters in Groundwater – September 2011 to July 2013
GERMANOW-SIMON CORPORATION
PROGRESS REPORT NO. 9 – SEMI-ANNUAL REPORT – MPVE OM&M, WARD STREET SITE
ROCHESTER, NY

Area of interest		On-Site Area 1: Building B Annex (continued)																													
Sample Location		MW208								MW208R		MW209								MW210	MW210R	MW211R		MW16							
Sample Date		27-Sep-11	3-Feb-12	1-Mar-12	6-Jun-12	5-Sep-12	23-Jan-13	11-Apr-13	2-Jul-13	27-Sep-11	5-Sep-12	4-Jan-12	2-Feb-12	1-Mar-12	6-Jun-12	23-Jan-13	10-Apr-13	3-Jul-13	28-Sep-11	28-Sep-11	27-Sep-11	6-Sep-12	27-Sep-11	3-Feb-12	2-Mar-12	5-Jun-12	5-Sep-12	23-Jan-13	11-Apr-13	3-Jul-13
Sample ID		WSR-MW-208 GW-1	WSR-MW-208 GW-2	WSR-MW-208 GW-3	WSR-MW-208 GW-4	WSR-MW-208 GW-5	WSR-MW-208 GW	WSR-MW-208 GW	WSR-MW-208 GW	WSR-MW-208R-GW-1	WSR-MW-208R-GW-5	WSR-MW-209 GW-1	WSR-MW-209 GW-2	WSR-MW-209 GW-3	WSR-MW-209 GW-4	WSR-MW-209 GW	WSR-MW-209 GW	WSR-MW-209 GW	WSR-MW-210 GW-1	WSR-MW-210R-GW-1	WSR-MW-211R-GW-12	WSR-MW-211R-GW	WSR-MW-16 GW-18	WSR-MW-16 GW-19	WSR-MW-16 GW-20	WSR-MW-16 GW-21	WSR-MW-16 GW-22	WSR-MW-16 GW	WSR-MW-16 GW	WSR-MW-16 GW
Sampling Company	Units	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Field Parameters																															
Color (Visual)	none	clear	clear w/ black flecks	cloudy	clear	clear	dark	Black precipitate - yellow tint	clear with black precipitate	clear	black flecks	clear	slightly cloudy	clear w/ black flecks	clear	dark	Black particles suspended in solution	clear with black precipitate	clear	clear	clear	clear w/ black flecks	sl.red	clear	slightly cloudy	clear	clear	clear	Clear with Black precipitate	clear with black precipitate
Conductivity, Field	mS/cm	0.32	0.208	1.80	1235	2.73	2.75	2.04	1.47	0.32	3.73	7.05	0.671	6.25	0.477	5.02	4.46	3.98	0.35	0.83	0.73	4.50	6.72	0.762	2.33	0.843	10.52	7.63	10.63	9.73
Dissolved Oxygen, Field	mg/L	1.2	0.00	0.07	1.16	0.42	0.26	0.55	0.18	4.6	0.15	0.00	0.00	0.00	0.75	0.31	0.37	0.17	2.2	0.4	2.4	0.68	0	0.0	0.00	1.09	0.40	0.51	0.8	0.19
Odor	none	no	odor	stale odor	trash odor	no odor	sulfur odor	Sulfur odor	slight sulfur odor	no	sulfur	sulfur smell	no odor	stale odor	odor (sulfur)	sewage odor	Stinky well odor, slight sulfur odor	sulfur odor	no	sulfur odor	no	no odor	0	no odor	no odor	no odor	sulfur	sewage odor	Sulfur odor	slight sulfur odor
Oxidation Reduction Potential	mV	-0	-256	-150	-122	-74.1	-241.3	-274.8	-282.8	-97	-330.7	-210	-240	-235	-389	-186.3	-304.8	-364.8	120	-96	-137	-302.5	-107	-259	-181	-291	-319.5	-208.0	-361.2	-207.6
pH, Field	S.U.	7.45	7.28	7.46	7.20	7.18	7.08	7.29	7.35	7.36	7.11	7.22	7.24	7.23	7.13	6.90	7.04	7.38	7.43	7.00	12.11	7.94	6.82	7.13	7.52	7.20	7.26	7.06	7.10	7.13
Temperature, Field	deg C	18.6	16.69	17.45	16.8	14.2	16.6	15.4	18.7	18.1	14.2	19.09	17.31	18.29	17.7	17.1	16.6	18.6	17.8	17.3	18.8	21.9	19.29	11.68	11.23	19.6	21.7	8.7	8.3	18.1
Turbidity, Field	ntu	40.6	18.1	15	12.4	12.20	3.64	3.8	4.01	21.1	2.15	8.77	14.0	23	4.38	12.3	7.87	3.79	111	9.28	9.48	9.53	30	11.1	17.6	37.0	7.11	1.01	4.55	8.59
Volume Purged	gal	1.7	0.7	1.4	0.7	1.8	3.5	1.6	1.8	0.8	1.4	1.0	1.0	0.5	0.8	1.4	1.4	1.6	0.7	1.4	0.9	1.4	0.9	3.0	1.9	0.5	1.1	2.8	3.3	1.3

See last page for notes.

Table 9-7
Summary of Field Parameters in Groundwater – September 2011 to July 2013
GERMANOW-SIMON CORPORATION
PROGRESS REPORT NO. 9 – SEMI-ANNUAL REPORT – MPVE OM&M, WARD STREET SITE
ROCHESTER, NY

Area of interest		Off-Site Area 1: MW-16/ Ward Street																	8-28 Ward St								
Sample Location		MW16R									MW212R								MW23								
Sample Date		28-Sep-11	5-Jan-12	3-Feb-12	1-Mar-12	5-Jun-12	5-Sep-12	23-Jan-13	11-Apr-13	3-Jul-13	27-Sep-11	5-Jan-12	6-Feb-12	2-Mar-12	5-Jun-12	24-Jan-13	12-Apr-13	5-Jul-13	28-Sep-11	5-Jan-12	6-Feb-12	2-Mar-12	5-Jun-12	6-Sep-12	24-Jan-13	10-Apr-13	5-Jul-13
Sample ID		WSR-MW-16R-GW-18	WSR-MW-16R-GW-19	WSR-MW-16R-GW-20	WSR-MW-16R-GW-21	WSR-MW-16R-GW-22	WSR-MW-16R-GW-23	WSR-MW-16R-GW	WSR-MW-16R-GW	WSR-MW-16R-GW	WSR-MW-212R-GW-12	WSR-MW-212R-GW-13	WSR-MW-212R-GW-14	WSR-MW-212R-GW-15	WSR-MW-212R-GW-16	WSR-MW-212R-GW	WSR-MW-212R-GW	WSR-MW-212R-GW	WSR-MW-23-GW-7	828-MW-23-GW-8	828-MW-23-GW-9	828-MW-23-GW-10	828-MW-23-GW-11	828-MW-23-GW-12	828-MW-23-GW	828-MW-23-GW	828-MW-23-GW
Sampling Company	Units	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Field Parameters																											
Color (Visual)	none	clear	clear	clear	clear w/ black flecks	clear	clear	murky	Slightly clouded	clear with black precipitate	0	clear	clear w/ black flecks	clear w/ black flecks	clear w/ black flecks	murky	Black w/ black precipitate	clear with black precipitate	clear	clear	clear w/ black flecks	clear w/ black flecks	clear, no black flecks	clear/black pieces	clear w/ black flecks	Black precipitate	clear with black precipitate
Conductivity, Field	mS/cm	4.31	3.75	0.782	4.90	0.629	5.19	5.32	4.06	4.40	2.99	5.46	0.581	5.68	0.383	5.05	3.40	3.72	7.37	7.12	0.596	6.06	0.828	6.62	4.66	4.38	3.48
Dissolved Oxygen, Field	mg/L	1.12	2.63	0.00	0.00	1.00	0.16	0.90	0.76	0.25	0.00	0.00	0.00	0.00	1.08	0.38	0.60	0.14	0.0	2.61	0.00	0.00	0.42	0.16	0.35	0.22	0.11
Odor	none	none	no odor	no odor	stale odor	no odor	sulfur	sulfur	Sulfur odor	slight sulfur odor	0	slight sulfur odor	odor	sulfur odor	odor (sulfur?)	sulfur odor	Sulfur odor	sulfur odor	none	no odor	no odor	no odor	no odor	no odor	sewage odor	No odor	slight sulfur odor
Oxidation Reduction Potential	mV	-62	104	-247	-196	-247	-328.6	-346.8	-313.9	-354.5	-72	-342	-363	-379	-395	-343.7	-326.6	-365.3	31	-135	-187	-238	-211	-147.1	-232.0	-149.2	-271.7
pH, Field	S.U.	6.56	7.53	6.84	7.04	6.53	6.96	6.76	7.04	6.90	6.61	6.97	6.76	7.14	6.61	6.76	8.30	6.81	6.66	6.73	7.09	7.57	6.71	7.04	7.09	7.13	6.44
Temperature, Field	deg C	17.78	7.26	12.28	10.95	18.3	20.9	11.1	8.3	19.0	20.00	12.25	14.76	14.43	19.8	11.1	12.3	19.3	14.63	11.85	6.47	12.18	13.8	21.0	11.0	9.8	18.1
Turbidity, Field	ntu	37	44.3	12.7	29	15.0	11.48	3.97	13.9	12.50	0.35	7.53	0.06	9.58	-0.89	3.35	1.62	8.98	45	12.2	9.78	24	1.35	9.14	3.72	9.72	9.23
Volume Purged	gal	1.0	0.6	2.7	2.1	0.8	1.9	1.2	2.8	2.0	0.5	0.75	1.2	0.3	0.9	1.7	2.0	2.2	2.1	1.6	0.5	0.6	2.5	1.6	0.9	1.0	1.1

See last page for notes.

Table 9-7
Summary of Field Parameters in Groundwater – September 2011 to July 2013
GERMANOW-SIMON CORPORATION
PROGRESS REPORT NO. 9 – SEMI-ANNUAL REPORT – MPVE OM&M, WARD STREET SITE
ROCHESTER, NY

Area of interest		8-28 Ward St (continued)								
Sample Location		MW23R								
Sample Date		28-Sep-11	5-Jan-12	6-Feb-12	2-Mar-12	5-Jun-12	6-Sep-12	24-Jan-13	10-Apr-13	5-Jul-13
Sample ID		WSR-MW-23R-GW-7	828-MW-23R-GW-8	828-MW-23R-GW-9	828-MW-23R-GW-10	828-MW-23R-GW-11	828-MW-23R-GW-12	828-MW-23R-GW	828-MW-23R-GW	828-MW-23R-GW
Sampling Company	Units	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Field Parameters										
Color (Visual)	none	clear	clear w/ black flecks	clear w/ black flecks	clear w/ black flecks	clear w/ black flecks	black	murky	0	clear with black precipitate
Conductivity, Field	mS/cm	3.44	4.24	0.671	7.03	0.635	4.74	6.34	6.52	6.45
Dissolved Oxygen, Field	mg/L	0.00	0.00	0.00	0.00	0.57	0.24	0.33	0.11	0.11
Odor	none	none	no odor	odor	sulfur odor	no odor	sulfur	slight sulfur odor	0	strong sulfur odor
Oxidation Reduction Potential	mV	-23	-168	-262	-317	-211	-375.3	-438.3	-358.9	-408.0
pH, Field	S.U.	6.63	7.38	6.71	6.86	6.59	7.02	6.65	6.67	6.79
Temperature, Field	deg C	22.26	12.61	11.12	12.97	16.1	19.7	11.5	10.8	17.5
Turbidity, Field	ntu	3.3	6.24	1.04	11.3	3.27	0.92	1.60	1.25	0.82
Volume Purged	gal	0.7	1.3	1.7	2.2	1.1	1.4	1.5	2.3	2.3

Notes:

15.2	Concentration was detected.
< 0.03	The analyte was not detected above the laboratory estimated quantitation limit.
-	Parameter not analyzed / not available.
~	Approximate

APPENDIX A

PARADIGM

ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Stantec

For Lab Project ID

132471

Referencing

Ward St. Site, 190500014

Prepared

Monday, September 09, 2013

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below:

The 8260 VOA LCS had low recovery(s) for the analyte Bromomethane. This was a result of degradation caused by sulfur dioxide in the client site samples. Bromomethane was verified as not present in the client samples by the use of a low reporting limit verification standard.

Certifies that this report has been approved by the Technical Director or Designee

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132471

Client: **Stantec**

Project Reference: Ward St. Site, 190500014

Sample Identifier: Trip Blank
Lab Sample ID: 132471-01
Matrix: Water

Date/Time Sampled: 7/2/2013 8:00
Date Received: 7/2/2013

Volatile Organics

Analyte	Result	Units	Qualifier	Date/Time Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		7/16/2013 16:27
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		7/16/2013 16:27
1,1,2-Trichloroethane	< 2.00	ug/L		7/16/2013 16:27
1,1-Dichloroethane	< 2.00	ug/L		7/16/2013 16:27
1,1-Dichloroethene	< 2.00	ug/L		7/16/2013 16:27
1,2,3-Trichlorobenzene	< 5.00	ug/L		7/16/2013 16:27
1,2,4-Trichlorobenzene	< 5.00	ug/L		7/16/2013 16:27
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		7/16/2013 16:27
1,2-Dibromoethane	< 2.00	ug/L		7/16/2013 16:27
1,2-Dichlorobenzene	< 2.00	ug/L		7/16/2013 16:27
1,2-Dichloroethane	< 2.00	ug/L		7/16/2013 16:27
1,2-Dichloropropane	< 2.00	ug/L		7/16/2013 16:27
1,3-Dichlorobenzene	< 2.00	ug/L		7/16/2013 16:27
1,4-Dichlorobenzene	< 2.00	ug/L		7/16/2013 16:27
1,4-dioxane	< 20.0	ug/L		7/16/2013 16:27
2-Butanone	< 10.0	ug/L		7/16/2013 16:27
2-Hexanone	< 5.00	ug/L		7/16/2013 16:27
4-Methyl-2-pentanone	< 5.00	ug/L		7/16/2013 16:27
Acetone	< 10.0	ug/L		7/16/2013 16:27
Benzene	< 0.700	ug/L		7/16/2013 16:27
Bromochloromethane	< 5.00	ug/L		7/16/2013 16:27
Bromodichloromethane	< 2.00	ug/L		7/16/2013 16:27
Bromoform	< 5.00	ug/L		7/16/2013 16:27
Bromomethane	< 2.00	ug/L		7/16/2013 16:27
Carbon disulfide	< 2.00	ug/L		7/16/2013 16:27
Carbon Tetrachloride	< 2.00	ug/L		7/16/2013 16:27
Chlorobenzene	< 2.00	ug/L		7/16/2013 16:27
Chloroethane	< 2.00	ug/L		7/16/2013 16:27

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132471

Client: **Stantec**

Project Reference: Ward St. Site, 190500014

Sample Identifier: Trip Blank
Lab Sample ID: 132471-01
Matrix: Water

Date/Time Sampled: 7/2/2013 8:00
Date Received: 7/2/2013

Chloroform	< 2.00	ug/L	7/16/2013 16:27
Chloromethane	< 2.00	ug/L	7/16/2013 16:27
cis-1,2-Dichloroethene	< 2.00	ug/L	7/16/2013 16:27
cis-1,3-Dichloropropene	< 2.00	ug/L	7/16/2013 16:27
Cyclohexane	< 10.0	ug/L	7/16/2013 16:27
Dibromochloromethane	< 2.00	ug/L	7/16/2013 16:27
Dichlorodifluoromethane	< 2.00	ug/L	7/16/2013 16:27
Ethylbenzene	< 2.00	ug/L	7/16/2013 16:27
Freon 113	< 2.00	ug/L	7/16/2013 16:27
Isopropylbenzene	< 2.00	ug/L	7/16/2013 16:27
m,p-Xylene	< 2.00	ug/L	7/16/2013 16:27
Methyl acetate	< 2.00	ug/L	7/16/2013 16:27
Methyl tert-butyl Ether	< 2.00	ug/L	7/16/2013 16:27
Methylcyclohexane	< 2.00	ug/L	7/16/2013 16:27
Methylene chloride	< 5.00	ug/L	7/16/2013 16:27
o-Xylene	< 2.00	ug/L	7/16/2013 16:27
Styrene	< 5.00	ug/L	7/16/2013 16:27
Tetrachloroethene	< 2.00	ug/L	7/16/2013 16:27
Toluene	< 2.00	ug/L	7/16/2013 16:27
trans-1,2-Dichloroethene	< 2.00	ug/L	7/16/2013 16:27
trans-1,3-Dichloropropene	< 2.00	ug/L	7/16/2013 16:27
Trichloroethene	< 2.00	ug/L	7/16/2013 16:27
Trichlorofluoromethane	< 2.00	ug/L	7/16/2013 16:27
Vinyl chloride	< 2.00	ug/L	7/16/2013 16:27

Method Reference(s): EPA 8260B
EPA 5030
Data File: x06868.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132471

Client: **Stantec**

Project Reference: Ward St. Site, 190500014

Sample Identifier: WSR-MW-105-GW
Lab Sample ID: 132471-02
Matrix: Groundwater

Date/Time Sampled: 7/2/2013 9:05
Date Received: 7/2/2013

Metals

Analyte	Result	Units	Qualifier	Date/Time Analyzed
Sodium	**456**	mg/L		7/16/2013 21:01

Method Reference(s): EPA 6010C
EPA 3005
Data File: 071613d

Total Organic Carbon

Analyte	Result	Units	Qualifier	Date/Time Analyzed
Total Organic Carbon	**12.0**	mg/L		7/9/2013

Method Reference(s): SM 5310 C
Subcontractor ELAP ID: 10142

Volatile Organics

Analyte	Result	Units	Qualifier	Date/Time Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		7/16/2013 16:50
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		7/16/2013 16:50
1,1,2-Trichloroethane	< 2.00	ug/L		7/16/2013 16:50
1,1-Dichloroethane	< 2.00	ug/L		7/16/2013 16:50
1,1-Dichloroethene	< 2.00	ug/L		7/16/2013 16:50
1,2,3-Trichlorobenzene	< 5.00	ug/L		7/16/2013 16:50
1,2,4-Trichlorobenzene	< 5.00	ug/L		7/16/2013 16:50
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		7/16/2013 16:50
1,2-Dibromoethane	< 2.00	ug/L		7/16/2013 16:50
1,2-Dichlorobenzene	< 2.00	ug/L		7/16/2013 16:50
1,2-Dichloroethane	< 2.00	ug/L		7/16/2013 16:50
1,2-Dichloropropane	< 2.00	ug/L		7/16/2013 16:50
1,3-Dichlorobenzene	< 2.00	ug/L		7/16/2013 16:50
1,4-Dichlorobenzene	< 2.00	ug/L		7/16/2013 16:50
1,4-dioxane	< 20.0	ug/L		7/16/2013 16:50
2-Butanone	< 10.0	ug/L		7/16/2013 16:50
2-Hexanone	< 5.00	ug/L		7/16/2013 16:50
4-Methyl-2-pentanone	< 5.00	ug/L		7/16/2013 16:50

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132471

Client: **Stantec**

Project Reference: Ward St. Site, 190500014

Sample Identifier: WSR-MW-105-GW
Lab Sample ID: 132471-02
Matrix: Groundwater

Date/Time Sampled: 7/2/2013 9:05
Date Received: 7/2/2013

Acetone	< 10.0	ug/L	7/16/2013 16:50
Benzene	< 0.700	ug/L	7/16/2013 16:50
Bromochloromethane	< 5.00	ug/L	7/16/2013 16:50
Bromodichloromethane	< 2.00	ug/L	7/16/2013 16:50
Bromoform	< 5.00	ug/L	7/16/2013 16:50
Bromomethane	< 2.00	ug/L	7/16/2013 16:50
Carbon disulfide	< 2.00	ug/L	7/16/2013 16:50
Carbon Tetrachloride	< 2.00	ug/L	7/16/2013 16:50
Chlorobenzene	< 2.00	ug/L	7/16/2013 16:50
Chloroethane	< 2.00	ug/L	7/16/2013 16:50
Chloroform	< 2.00	ug/L	7/16/2013 16:50
Chloromethane	< 2.00	ug/L	7/16/2013 16:50
cis-1,2-Dichloroethene	**83.6**	ug/L	7/16/2013 16:50
cis-1,3-Dichloropropene	< 2.00	ug/L	7/16/2013 16:50
Cyclohexane	< 10.0	ug/L	7/16/2013 16:50
Dibromochloromethane	< 2.00	ug/L	7/16/2013 16:50
Dichlorodifluoromethane	< 2.00	ug/L	7/16/2013 16:50
Ethylbenzene	< 2.00	ug/L	7/16/2013 16:50
Freon 113	< 2.00	ug/L	7/16/2013 16:50
Isopropylbenzene	< 2.00	ug/L	7/16/2013 16:50
m,p-Xylene	< 2.00	ug/L	7/16/2013 16:50
Methyl acetate	< 2.00	ug/L	7/16/2013 16:50
Methyl tert-butyl Ether	< 2.00	ug/L	7/16/2013 16:50
Methylcyclohexane	< 2.00	ug/L	7/16/2013 16:50
Methylene chloride	< 5.00	ug/L	7/16/2013 16:50
o-Xylene	< 2.00	ug/L	7/16/2013 16:50
Styrene	< 5.00	ug/L	7/16/2013 16:50
Tetrachloroethene	< 2.00	ug/L	7/16/2013 16:50
Toluene	< 2.00	ug/L	7/16/2013 16:50
trans-1,2-Dichloroethene	**86.4**	ug/L	7/16/2013 16:50

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132471

Client: **Stantec**

Project Reference: Ward St. Site, 190500014

Sample Identifier: WSR-MW-105-GW
Lab Sample ID: 132471-02
Matrix: Groundwater

Date/Time Sampled: 7/2/2013 9:05
Date Received: 7/2/2013

trans-1,3-Dichloropropene	< 2.00	ug/L	7/16/2013	16:50
Trichloroethene	**20.3**	ug/L	7/16/2013	16:50
Trichlorofluoromethane	< 2.00	ug/L	7/16/2013	16:50
Vinyl chloride	**18.8**	ug/L	7/16/2013	16:50

Method Reference(s): EPA 8260B
EPA 5030

Data File: x06869.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Monday, September 09, 2013

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132471

Client: **Stantec**

Project Reference: Ward St. Site, 190500014

Sample Identifier: WSR-MW-200R-GW
Lab Sample ID: 132471-03
Matrix: Groundwater

Date/Time Sampled: 7/2/2013 10:50
Date Received: 7/2/2013

Metals

Analyte	Result	Units	Qualifier	Date/Time Analyzed
Sodium	**415**	mg/L		7/16/2013 21:06

Method Reference(s): EPA 6010C
EPA 3005
Data File: 071613d

Total Organic Carbon

Analyte	Result	Units	Qualifier	Date/Time Analyzed
Total Organic Carbon	**50.0**	mg/L		7/9/2013

Method Reference(s): SM 5310 C
Subcontractor ELAP ID: 10142

Volatile Organics

Analyte	Result	Units	Qualifier	Date/Time Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		7/16/2013 17:13
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		7/16/2013 17:13
1,1,2-Trichloroethane	< 2.00	ug/L		7/16/2013 17:13
1,1-Dichloroethane	< 2.00	ug/L		7/16/2013 17:13
1,1-Dichloroethene	< 2.00	ug/L		7/16/2013 17:13
1,2,3-Trichlorobenzene	< 5.00	ug/L		7/16/2013 17:13
1,2,4-Trichlorobenzene	< 5.00	ug/L		7/16/2013 17:13
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		7/16/2013 17:13
1,2-Dibromoethane	< 2.00	ug/L		7/16/2013 17:13
1,2-Dichlorobenzene	< 2.00	ug/L		7/16/2013 17:13
1,2-Dichloroethane	< 2.00	ug/L		7/16/2013 17:13
1,2-Dichloropropane	< 2.00	ug/L		7/16/2013 17:13
1,3-Dichlorobenzene	< 2.00	ug/L		7/16/2013 17:13
1,4-Dichlorobenzene	< 2.00	ug/L		7/16/2013 17:13
1,4-dioxane	< 20.0	ug/L		7/16/2013 17:13
2-Butanone	**36.6**	ug/L		7/16/2013 17:13
2-Hexanone	< 5.00	ug/L		7/16/2013 17:13
4-Methyl-2-pentanone	< 5.00	ug/L		7/16/2013 17:13

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132471

Client: **Stantec**

Project Reference: Ward St. Site, 190500014

Sample Identifier: WSR-MW-200R-GW
Lab Sample ID: 132471-03
Matrix: Groundwater

Date/Time Sampled: 7/2/2013 10:50
Date Received: 7/2/2013

Acetone	**34.3**	ug/L	7/16/2013 17:13
Benzene	< 0.700	ug/L	7/16/2013 17:13
Bromochloromethane	< 5.00	ug/L	7/16/2013 17:13
Bromodichloromethane	< 2.00	ug/L	7/16/2013 17:13
Bromoform	< 5.00	ug/L	7/16/2013 17:13
Bromomethane	< 2.00	ug/L	7/16/2013 17:13
Carbon disulfide	< 2.00	ug/L	7/16/2013 17:13
Carbon Tetrachloride	< 2.00	ug/L	7/16/2013 17:13
Chlorobenzene	< 2.00	ug/L	7/16/2013 17:13
Chloroethane	< 2.00	ug/L	7/16/2013 17:13
Chloroform	< 2.00	ug/L	7/16/2013 17:13
Chloromethane	< 2.00	ug/L	7/16/2013 17:13
cis-1,2-Dichloroethene	**4.24**	ug/L	7/16/2013 17:13
cis-1,3-Dichloropropene	< 2.00	ug/L	7/16/2013 17:13
Cyclohexane	< 10.0	ug/L	7/16/2013 17:13
Dibromochloromethane	< 2.00	ug/L	7/16/2013 17:13
Dichlorodifluoromethane	< 2.00	ug/L	7/16/2013 17:13
Ethylbenzene	< 2.00	ug/L	7/16/2013 17:13
Freon 113	< 2.00	ug/L	7/16/2013 17:13
Isopropylbenzene	< 2.00	ug/L	7/16/2013 17:13
m,p-Xylene	< 2.00	ug/L	7/16/2013 17:13
Methyl acetate	< 2.00	ug/L	7/16/2013 17:13
Methyl tert-butyl Ether	< 2.00	ug/L	7/16/2013 17:13
Methylcyclohexane	< 2.00	ug/L	7/16/2013 17:13
Methylene chloride	< 5.00	ug/L	7/16/2013 17:13
o-Xylene	< 2.00	ug/L	7/16/2013 17:13
Styrene	< 5.00	ug/L	7/16/2013 17:13
Tetrachloroethene	< 2.00	ug/L	7/16/2013 17:13
Toluene	< 2.00	ug/L	7/16/2013 17:13
trans-1,2-Dichloroethene	**11.7**	ug/L	7/16/2013 17:13

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132471

Client: **Stantec**

Project Reference: Ward St. Site, 190500014

Sample Identifier: WSR-MW-200R-GW
Lab Sample ID: 132471-03
Matrix: Groundwater

Date/Time Sampled: 7/2/2013 10:50
Date Received: 7/2/2013

trans-1,3-Dichloropropene	< 2.00	ug/L	7/16/2013	17:13
Trichloroethene	< 2.00	ug/L	7/16/2013	17:13
Trichlorofluoromethane	< 2.00	ug/L	7/16/2013	17:13
Vinyl chloride	**58.9**	ug/L	7/16/2013	17:13

Method Reference(s): EPA 8260B
EPA 5030
Data File: x06870.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132471

Client: **Stantec**

Project Reference: Ward St. Site, 190500014

Sample Identifier: WSR-MW-200-GW
Lab Sample ID: 132471-04
Matrix: Groundwater

Date/Time Sampled: 7/2/2013 12:35
Date Received: 7/2/2013

Metals

Analyte	Result	Units	Qualifier	Date/Time Analyzed
Sodium	**563**	mg/L		7/16/2013 21:10

Method Reference(s): EPA 6010C
EPA 3005
Data File: 071613d

Total Organic Carbon

Analyte	Result	Units	Qualifier	Date/Time Analyzed
Total Organic Carbon	**78.0**	mg/L		7/9/2013

Method Reference(s): SM 5310 C
Subcontractor ELAP ID: 10142

Volatile Organics

Analyte	Result	Units	Qualifier	Date/Time Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		7/16/2013 17:37
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		7/16/2013 17:37
1,1,2-Trichloroethane	< 2.00	ug/L		7/16/2013 17:37
1,1-Dichloroethane	< 2.00	ug/L		7/16/2013 17:37
1,1-Dichloroethene	< 2.00	ug/L		7/16/2013 17:37
1,2,3-Trichlorobenzene	< 5.00	ug/L		7/16/2013 17:37
1,2,4-Trichlorobenzene	< 5.00	ug/L		7/16/2013 17:37
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		7/16/2013 17:37
1,2-Dibromoethane	< 2.00	ug/L		7/16/2013 17:37
1,2-Dichlorobenzene	< 2.00	ug/L		7/16/2013 17:37
1,2-Dichloroethane	< 2.00	ug/L		7/16/2013 17:37
1,2-Dichloropropane	< 2.00	ug/L		7/16/2013 17:37
1,3-Dichlorobenzene	< 2.00	ug/L		7/16/2013 17:37
1,4-Dichlorobenzene	< 2.00	ug/L		7/16/2013 17:37
1,4-dioxane	< 20.0	ug/L		7/16/2013 17:37
2-Butanone	< 10.0	ug/L		7/16/2013 17:37
2-Hexanone	< 5.00	ug/L		7/16/2013 17:37
4-Methyl-2-pentanone	< 5.00	ug/L		7/16/2013 17:37

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132471

Client: **Stantec**

Project Reference: Ward St. Site, 190500014

Sample Identifier: WSR-MW-200-GW
Lab Sample ID: 132471-04
Matrix: Groundwater

Date/Time Sampled: 7/2/2013 12:35
Date Received: 7/2/2013

Acetone	< 10.0	ug/L	7/16/2013 17:37
Benzene	< 0.700	ug/L	7/16/2013 17:37
Bromochloromethane	< 5.00	ug/L	7/16/2013 17:37
Bromodichloromethane	< 2.00	ug/L	7/16/2013 17:37
Bromoform	< 5.00	ug/L	7/16/2013 17:37
Bromomethane	< 2.00	ug/L	7/16/2013 17:37
Carbon disulfide	< 2.00	ug/L	7/16/2013 17:37
Carbon Tetrachloride	< 2.00	ug/L	7/16/2013 17:37
Chlorobenzene	< 2.00	ug/L	7/16/2013 17:37
Chloroethane	< 2.00	ug/L	7/16/2013 17:37
Chloroform	< 2.00	ug/L	7/16/2013 17:37
Chloromethane	< 2.00	ug/L	7/16/2013 17:37
cis-1,2-Dichloroethene	**5.26**	ug/L	7/16/2013 17:37
cis-1,3-Dichloropropene	< 2.00	ug/L	7/16/2013 17:37
Cyclohexane	< 10.0	ug/L	7/16/2013 17:37
Dibromochloromethane	< 2.00	ug/L	7/16/2013 17:37
Dichlorodifluoromethane	< 2.00	ug/L	7/16/2013 17:37
Ethylbenzene	< 2.00	ug/L	7/16/2013 17:37
Freon 113	< 2.00	ug/L	7/16/2013 17:37
Isopropylbenzene	< 2.00	ug/L	7/16/2013 17:37
m,p-Xylene	< 2.00	ug/L	7/16/2013 17:37
Methyl acetate	< 2.00	ug/L	7/16/2013 17:37
Methyl tert-butyl Ether	< 2.00	ug/L	7/16/2013 17:37
Methylcyclohexane	< 2.00	ug/L	7/16/2013 17:37
Methylene chloride	< 5.00	ug/L	7/16/2013 17:37
o-Xylene	< 2.00	ug/L	7/16/2013 17:37
Styrene	< 5.00	ug/L	7/16/2013 17:37
Tetrachloroethene	< 2.00	ug/L	7/16/2013 17:37
Toluene	< 2.00	ug/L	7/16/2013 17:37
trans-1,2-Dichloroethene	< 2.00	ug/L	7/16/2013 17:37

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132471

Client: **Stantec**

Project Reference: Ward St. Site, 190500014

Sample Identifier: WSR-MW-200-GW
Lab Sample ID: 132471-04
Matrix: Groundwater

Date/Time Sampled: 7/2/2013 12:35
Date Received: 7/2/2013

trans-1,3-Dichloropropene	< 2.00	ug/L	7/16/2013	17:37
Trichloroethene	**2.38**	ug/L	7/16/2013	17:37
Trichlorofluoromethane	< 2.00	ug/L	7/16/2013	17:37
Vinyl chloride	**3.02**	ug/L	7/16/2013	17:37

Method Reference(s): EPA 8260B
EPA 5030
Data File: x06871.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132471

Client: **Stantec**

Project Reference: Ward St. Site, 190500014

Sample Identifier: WSR-MW-22-GW
Lab Sample ID: 132471-05
Matrix: Groundwater

Date/Time Sampled: 7/2/2013 13:30
Date Received: 7/2/2013

Metals

Analyte	Result	Units	Qualifier	Date/Time Analyzed
Sodium	**967**	mg/L		7/16/2013 21:14

Method Reference(s): EPA 6010C
EPA 3005
Data File: 071613d

Total Organic Carbon

Analyte	Result	Units	Qualifier	Date/Time Analyzed
Total Organic Carbon	**430**	mg/L		7/16/2013

Method Reference(s): SM 5310 C
Subcontractor ELAP ID: 10142

Volatile Organics

Analyte	Result	Units	Qualifier	Date/Time Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		7/16/2013 18:00
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		7/16/2013 18:00
1,1,2-Trichloroethane	< 2.00	ug/L		7/16/2013 18:00
1,1-Dichloroethane	< 2.00	ug/L		7/16/2013 18:00
1,1-Dichloroethene	< 2.00	ug/L		7/16/2013 18:00
1,2,3-Trichlorobenzene	< 5.00	ug/L		7/16/2013 18:00
1,2,4-Trichlorobenzene	< 5.00	ug/L		7/16/2013 18:00
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		7/16/2013 18:00
1,2-Dibromoethane	< 2.00	ug/L		7/16/2013 18:00
1,2-Dichlorobenzene	< 2.00	ug/L		7/16/2013 18:00
1,2-Dichloroethane	< 2.00	ug/L		7/16/2013 18:00
1,2-Dichloropropane	< 2.00	ug/L		7/16/2013 18:00
1,3-Dichlorobenzene	< 2.00	ug/L		7/16/2013 18:00
1,4-Dichlorobenzene	< 2.00	ug/L		7/16/2013 18:00
1,4-dioxane	< 20.0	ug/L		7/16/2013 18:00
2-Butanone	**96.2**	ug/L		7/16/2013 18:00
2-Hexanone	< 5.00	ug/L		7/16/2013 18:00
4-Methyl-2-pentanone	**12.7**	ug/L		7/16/2013 18:00

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132471

Client: **Stantec**

Project Reference: Ward St. Site, 190500014

Sample Identifier: WSR-MW-22-GW
Lab Sample ID: 132471-05
Matrix: Groundwater

Date/Time Sampled: 7/2/2013 13:30
Date Received: 7/2/2013

Acetone	**95.8**	ug/L	7/16/2013 18:00
Benzene	< 0.700	ug/L	7/16/2013 18:00
Bromochloromethane	< 5.00	ug/L	7/16/2013 18:00
Bromodichloromethane	< 2.00	ug/L	7/16/2013 18:00
Bromoform	< 5.00	ug/L	7/16/2013 18:00
Bromomethane	< 2.00	ug/L	7/16/2013 18:00
Carbon disulfide	< 2.00	ug/L	7/16/2013 18:00
Carbon Tetrachloride	< 2.00	ug/L	7/16/2013 18:00
Chlorobenzene	< 2.00	ug/L	7/16/2013 18:00
Chloroethane	< 2.00	ug/L	7/16/2013 18:00
Chloroform	< 2.00	ug/L	7/16/2013 18:00
Chloromethane	< 2.00	ug/L	7/16/2013 18:00
cis-1,2-Dichloroethene	**7.43**	ug/L	7/16/2013 18:00
cis-1,3-Dichloropropene	< 2.00	ug/L	7/16/2013 18:00
Cyclohexane	< 10.0	ug/L	7/16/2013 18:00
Dibromochloromethane	< 2.00	ug/L	7/16/2013 18:00
Dichlorodifluoromethane	< 2.00	ug/L	7/16/2013 18:00
Ethylbenzene	< 2.00	ug/L	7/16/2013 18:00
Freon 113	< 2.00	ug/L	7/16/2013 18:00
Isopropylbenzene	< 2.00	ug/L	7/16/2013 18:00
m,p-Xylene	< 2.00	ug/L	7/16/2013 18:00
Methyl acetate	< 2.00	ug/L	7/16/2013 18:00
Methyl tert-butyl Ether	< 2.00	ug/L	7/16/2013 18:00
Methylcyclohexane	< 2.00	ug/L	7/16/2013 18:00
Methylene chloride	< 5.00	ug/L	7/16/2013 18:00
o-Xylene	< 2.00	ug/L	7/16/2013 18:00
Styrene	< 5.00	ug/L	7/16/2013 18:00
Tetrachloroethene	< 2.00	ug/L	7/16/2013 18:00
Toluene	< 2.00	ug/L	7/16/2013 18:00
trans-1,2-Dichloroethene	**3.31**	ug/L	7/16/2013 18:00

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132471

Client: **Stantec**

Project Reference: Ward St. Site, 190500014

Sample Identifier: WSR-MW-22-GW
Lab Sample ID: 132471-05
Matrix: Groundwater

Date/Time Sampled: 7/2/2013 13:30
Date Received: 7/2/2013

trans-1,3-Dichloropropene	< 2.00	ug/L	7/16/2013	18:00
Trichloroethene	< 2.00	ug/L	7/16/2013	18:00
Trichlorofluoromethane	< 2.00	ug/L	7/16/2013	18:00
Vinyl chloride	**3.49**	ug/L	7/16/2013	18:00

Method Reference(s): EPA 8260B
EPA 5030
Data File: x06872.D

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Report Prepared Monday, September 09, 2013

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132471

Client: **Stantec**

Project Reference: Ward St. Site, 190500014

Sample Identifier: WSR-MW-22R-GW
Lab Sample ID: 132471-06
Matrix: Groundwater

Date/Time Sampled: 7/2/2013 15:10
Date Received: 7/2/2013

Metals

Analyte	Result	Units	Qualifier	Date/Time Analyzed
Sodium	**875**	mg/L		7/16/2013 21:19

Method Reference(s): EPA 6010C
EPA 3005
Data File: 071613d

Total Organic Carbon

Analyte	Result	Units	Qualifier	Date/Time Analyzed
Total Organic Carbon	**370**	mg/L		7/16/2013

Method Reference(s): SM 5310 C
Subcontractor ELAP ID: 10142

Volatile Organics

Analyte	Result	Units	Qualifier	Date/Time Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		7/16/2013 18:23
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		7/16/2013 18:23
1,1,2-Trichloroethane	< 2.00	ug/L		7/16/2013 18:23
1,1-Dichloroethane	< 2.00	ug/L		7/16/2013 18:23
1,1-Dichloroethene	< 2.00	ug/L		7/16/2013 18:23
1,2,3-Trichlorobenzene	< 5.00	ug/L		7/16/2013 18:23
1,2,4-Trichlorobenzene	< 5.00	ug/L		7/16/2013 18:23
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		7/16/2013 18:23
1,2-Dibromoethane	< 2.00	ug/L		7/16/2013 18:23
1,2-Dichlorobenzene	< 2.00	ug/L		7/16/2013 18:23
1,2-Dichloroethane	< 2.00	ug/L		7/16/2013 18:23
1,2-Dichloropropane	< 2.00	ug/L		7/16/2013 18:23
1,3-Dichlorobenzene	< 2.00	ug/L		7/16/2013 18:23
1,4-Dichlorobenzene	< 2.00	ug/L		7/16/2013 18:23
1,4-dioxane	< 20.0	ug/L		7/16/2013 18:23
2-Butanone	**195**	ug/L		7/16/2013 18:23
2-Hexanone	< 5.00	ug/L		7/16/2013 18:23
4-Methyl-2-pentanone	< 5.00	ug/L		7/16/2013 18:23

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132471

Client: **Stantec**

Project Reference: Ward St. Site, 190500014

Sample Identifier: WSR-MW-22R-GW
Lab Sample ID: 132471-06
Matrix: Groundwater

Date/Time Sampled: 7/2/2013 15:10
Date Received: 7/2/2013

Acetone	**23.7**	ug/L	7/16/2013 18:23
Benzene	< 0.700	ug/L	7/16/2013 18:23
Bromochloromethane	< 5.00	ug/L	7/16/2013 18:23
Bromodichloromethane	< 2.00	ug/L	7/16/2013 18:23
Bromoform	< 5.00	ug/L	7/16/2013 18:23
Bromomethane	< 2.00	ug/L	7/16/2013 18:23
Carbon disulfide	< 2.00	ug/L	7/16/2013 18:23
Carbon Tetrachloride	< 2.00	ug/L	7/16/2013 18:23
Chlorobenzene	< 2.00	ug/L	7/16/2013 18:23
Chloroethane	< 2.00	ug/L	7/16/2013 18:23
Chloroform	< 2.00	ug/L	7/16/2013 18:23
Chloromethane	< 2.00	ug/L	7/16/2013 18:23
cis-1,2-Dichloroethene	**16.6**	ug/L	7/16/2013 18:23
cis-1,3-Dichloropropene	< 2.00	ug/L	7/16/2013 18:23
Cyclohexane	< 10.0	ug/L	7/16/2013 18:23
Dibromochloromethane	< 2.00	ug/L	7/16/2013 18:23
Dichlorodifluoromethane	< 2.00	ug/L	7/16/2013 18:23
Ethylbenzene	< 2.00	ug/L	7/16/2013 18:23
Freon 113	< 2.00	ug/L	7/16/2013 18:23
Isopropylbenzene	< 2.00	ug/L	7/16/2013 18:23
m,p-Xylene	< 2.00	ug/L	7/16/2013 18:23
Methyl acetate	< 2.00	ug/L	7/16/2013 18:23
Methyl tert-butyl Ether	< 2.00	ug/L	7/16/2013 18:23
Methylcyclohexane	< 2.00	ug/L	7/16/2013 18:23
Methylene chloride	< 5.00	ug/L	7/16/2013 18:23
o-Xylene	< 2.00	ug/L	7/16/2013 18:23
Styrene	< 5.00	ug/L	7/16/2013 18:23
Tetrachloroethene	< 2.00	ug/L	7/16/2013 18:23
Toluene	< 2.00	ug/L	7/16/2013 18:23
trans-1,2-Dichloroethene	**18.7**	ug/L	7/16/2013 18:23

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132471

Client: **Stantec**

Project Reference: Ward St. Site, 190500014

Sample Identifier: WSR-MW-22R-GW
Lab Sample ID: 132471-06
Matrix: Groundwater

Date/Time Sampled: 7/2/2013 15:10
Date Received: 7/2/2013

trans-1,3-Dichloropropene	< 2.00	ug/L	7/16/2013	18:23
Trichloroethene	< 2.00	ug/L	7/16/2013	18:23
Trichlorofluoromethane	< 2.00	ug/L	7/16/2013	18:23
Vinyl chloride	**26.3**	ug/L	7/16/2013	18:23

Method Reference(s): EPA 8260B
EPA 5030
Data File: x06873.D

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Report Prepared Monday, September 09, 2013

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: **Stantec**

Project Reference: Ward St. Site, 190500014

Lab Project ID: 132471

Matrix: Groundwater

Metals

Analyte		Result	Units	Qualifier	Date Analyzed
Sodium		<2.50	mg/L		7/16/2013
Method Reference(s):	EPA 6010C EPA 3005				
Data File:	071513d				
QC Batch ID:	QC130712waters				
QC Number:	1				

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: **Stantec**

Project Reference: Ward St. Site, 190500014

Lab Project ID: 132471

Matrix: Wastewater

Metals

Analyte	LCS Added	LCSD Added	Spike Units	LCS Result	LCSD Result	LCS % Recovery	LCSD % Recovery	% Rec Limits	LCS Outliers	LCSD Outliers	Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed
Sodium	12.0	12.0	mg/L	12.3	12.5	102	104	85 - 115			2.02	20		7/16/2013

Method Reference(s): EPA 6010C
EPA 3005

Data File: 071513d

QC Number: 1

QC Batch ID: QC130712waters

Report Prepared Monday, September 09, 2013

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: **Stantec**

Project Reference: Ward St. Site, 190500014

Lab Project ID: 132471

Matrix: Water

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	<2.00	ug/L		7/16/2013
1,1,2,2-Tetrachloroethane	<2.00	ug/L		7/16/2013
1,1,2-Trichloroethane	<2.00	ug/L		7/16/2013
1,1-Dichloroethane	<2.00	ug/L		7/16/2013
1,1-Dichloroethene	<2.00	ug/L		7/16/2013
1,2,3-Trichlorobenzene	<5.00	ug/L		7/16/2013
1,2,4-Trichlorobenzene	<5.00	ug/L		7/16/2013
1,2-Dibromo-3-Chloropropane	<10.0	ug/L		7/16/2013
1,2-Dibromoethane	<2.00	ug/L		7/16/2013
1,2-Dichlorobenzene	<2.00	ug/L		7/16/2013
1,2-Dichloroethane	<2.00	ug/L		7/16/2013
1,2-Dichloropropane	<2.00	ug/L		7/16/2013
1,3-Dichlorobenzene	<2.00	ug/L		7/16/2013
1,4-Dichlorobenzene	<2.00	ug/L		7/16/2013
1,4-dioxane	<20.0	ug/L		7/16/2013
2-Butanone	<10.0	ug/L		7/16/2013
2-Hexanone	<5.00	ug/L		7/16/2013
4-Methyl-2-pentanone	<5.00	ug/L		7/16/2013
Acetone	<10.0	ug/L		7/16/2013
Benzene	<0.700	ug/L		7/16/2013
Bromochloromethane	<5.00	ug/L		7/16/2013
Bromodichloromethane	<2.00	ug/L		7/16/2013
Bromoform	<5.00	ug/L		7/16/2013
Bromomethane	<2.00	ug/L		7/16/2013
Carbon disulfide	<2.00	ug/L		7/16/2013
Carbon Tetrachloride	<2.00	ug/L		7/16/2013
Chlorobenzene	<2.00	ug/L		7/16/2013
Chloroethane	<2.00	ug/L		7/16/2013

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: **Stantec**

Project Reference: Ward St. Site, 190500014

Lab Project ID: 132471

Matrix: Water

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
Chloroform	<2.00	ug/L		7/16/2013
Chloromethane	<2.00	ug/L		7/16/2013
cis-1,2-Dichloroethene	<2.00	ug/L		7/16/2013
cis-1,3-Dichloropropene	<2.00	ug/L		7/16/2013
Cyclohexane	<10.0	ug/L		7/16/2013
Dibromochloromethane	<2.00	ug/L		7/16/2013
Dichlorodifluoromethane	<2.00	ug/L		7/16/2013
Ethylbenzene	<2.00	ug/L		7/16/2013
Freon 113	<2.00	ug/L		7/16/2013
Isopropylbenzene	<2.00	ug/L		7/16/2013
m,p-Xylene	<2.00	ug/L		7/16/2013
Methyl acetate	<2.00	ug/L		7/16/2013
Methyl tert-butyl Ether	<2.00	ug/L		7/16/2013
Methylcyclohexane	<2.00	ug/L		7/16/2013
Methylene chloride	<5.00	ug/L		7/16/2013
o-Xylene	<2.00	ug/L		7/16/2013
Styrene	<5.00	ug/L		7/16/2013
Tetrachloroethene	<2.00	ug/L		7/16/2013
Toluene	<2.00	ug/L		7/16/2013
trans-1,2-Dichloroethene	<2.00	ug/L		7/16/2013
trans-1,3-Dichloropropene	<2.00	ug/L		7/16/2013
Trichloroethene	<2.00	ug/L		7/16/2013
Trichlorofluoromethane	<2.00	ug/L		7/16/2013
Vinyl chloride	<2.00	ug/L		7/16/2013

Method Reference(s): EPA 8260B
EPA 5030

Data File: x06867.D

QC Batch ID: voaw071613

QC Number: 1

PARADIGM ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: **Stantec**

Project Reference: Ward St. Site, 190500014

Lab Project ID: 132471

Matrix: Water

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
1,1,1-Trichloroethane	50.0	ug/L	45.6	91.2	84.7 - 113		7/16/2013
1,1,2,2-Tetrachloroethane	50.0	ug/L	51.2	102	85.9 - 114		7/16/2013
1,1,2-Trichloroethane	50.0	ug/L	47.8	95.7	81.1 - 105		7/16/2013
1,1-Dichloroethane	50.0	ug/L	46.6	93.2	81.2 - 109		7/16/2013
1,1-Dichloroethene	50.0	ug/L	46.1	92.2	82.1 - 110		7/16/2013
1,2-Dichlorobenzene	50.0	ug/L	48.7	97.3	83.9 - 106		7/16/2013
1,2-Dichloroethane	50.0	ug/L	44.0	88.0	77.7 - 115		7/16/2013
1,2-Dichloropropane	50.0	ug/L	47.6	95.2	81.6 - 107		7/16/2013
1,3-Dichlorobenzene	50.0	ug/L	48.6	97.2	82.9 - 104		7/16/2013
1,4-Dichlorobenzene	50.0	ug/L	46.7	93.4	81.3 - 103		7/16/2013
Benzene	50.0	ug/L	50.3	101	84.1 - 105		7/16/2013
Bromodichloromethane	50.0	ug/L	49.2	98.4	84 - 113		7/16/2013
Bromoform	50.0	ug/L	52.5	105	85.5 - 114		7/16/2013
Bromomethane	50.0	ug/L	13.4	26.8	75.3 - 135	*	7/16/2013

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: **Stantec**

Project Reference: Ward St. Site, 190500014

Lab Project ID: 132471

Matrix: Water

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
Carbon Tetrachloride	50.0	ug/L	46.8	93.6	83.9 - 118		7/16/2013
Chlorobenzene	50.0	ug/L	48.5	96.9	83.7 - 103		7/16/2013
Chloroethane	50.0	ug/L	53.1	106	83.6 - 115		7/16/2013
Chloroform	50.0	ug/L	45.9	91.7	81.7 - 108		7/16/2013
Chloromethane	50.0	ug/L	50.1	100	70.7 - 130		7/16/2013
cis-1,3-Dichloropropene	50.0	ug/L	53.7	107	91.2 - 111		7/16/2013
Dibromochloromethane	50.0	ug/L	53.1	106	83.7 - 119		7/16/2013
Ethylbenzene	50.0	ug/L	47.9	95.9	86 - 107		7/16/2013
Methylene chloride	50.0	ug/L	49.0	98.0	84 - 118		7/16/2013
Tetrachloroethene	50.0	ug/L	50.3	101	84.4 - 108		7/16/2013
Toluene	50.0	ug/L	48.5	97.0	85.9 - 102		7/16/2013
trans-1,2-Dichloroethene	50.0	ug/L	46.4	92.7	82.3 - 108		7/16/2013
trans-1,3-Dichloropropene	50.0	ug/L	51.2	102	86.9 - 110		7/16/2013
Trichloroethene	50.0	ug/L	50.0	100	86.1 - 104		7/16/2013

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: **Stantec**

Project Reference: Ward St. Site, 190500014

Lab Project ID: 132471

Matrix: Water

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
Trichlorofluoromethane	50.0	ug/L	47.3	94.6	78.8 - 122		7/16/2013
Vinyl chloride	50.0	ug/L	53.7	107	74.9 - 130		7/16/2013

Method Reference(s): EPA 8260B
EPA 5030
Data File: x06881.D
QC Number: 1
QC Batch ID: voaw071613

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"V" = Sample concentration is >10 times the spike. No meaningful Spike Recovery can be calculated.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"C" = Concentration differs by more than 40% between the primary and secondary analytical columns.

1 of 2

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:	INVOICE TO:	
CLIENT: Stantec	CLIENT: Germanow Simon	LAB PROJECT ID 132471
ADDRESS: 61 Commercial St.	ADDRESS: 408 St. Paul St	
CITY: Rochester STATE: NY ZIP: 14614	CITY: Rochester STATE: NY ZIP:	Quotation #:
PHONE: 585-413-5266	PHONE: 585-732-0202	Email:
ATTN: Mike Storonsky	ATTN: John Doyle	

PROJECT REFERENCE: Ward St. Site - 1405000 14

Matrix Codes:
AQ - Aqueous Liquid, NQ - Non-Aqueous Liquid, WA - Water, WG - Groundwater, DW - Drinking Water, WW - Wastewater, SO - Soil, SL - Sludge, SD - Solid, PT - Paint, WP - Wipe, CK - Caulk, OL - Oil, AR - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TCL VOCs (8260)	TOC (5310)	Total Na ([illegible])								REMARKS	PARADIGM LAB SAMPLE NUMBER
1	7/2/13	0800		X	Trip Blank	WA	1	X											01
2	7/2/13	0905		X	WSR-MW-105-GW	WG	4	X	X	X									02
3	7/2/13	1050		X	WSR-MW-200R-GW	WG	4	X	X	X									03
4	7/2/13	1235		X	WSR-MW-200-GW	WG	4	X	X	X									04
5	7/2/13	1330		X	WSR-MW-22-GW	WG	4	X	X	X									05
6	7/2/13	1510		X	WSR-MW-22R-GW	WG	4	X	X	X									06
7																			
8																			
9																			
10																			

5°C iced

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	Batch QC	☒	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☐
Rush 2 day	☐	Category B	☐		
Rush 1 day	☐				
Other please indicate: 10 day	☒	Other please indicate:	☐	Other EDD please indicate: EQuIS EDDs	☒

- both 4 file EFWEDD & NYSDEC format

	Date/Time
Katie Breno — Sampled By	7/2/13 1545
[signature] — Relinquished By	7/2/13 1545
[signature] — Received By	7/2/13 1545
Elizabeth A Honch — Received @ Lab By	7/2/13 1717

Total Cost:

P.I.F.

2 of 2

Chain of Custody Supplement

Client: Stantec **Completed by:** Mail

Lab Project ID: 132471 **Date:** 7/2/13

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt: Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X		
Comments			
Preservation	X		
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X 5°C iced		X metal
Comments			
Sufficient Sample Quantity	X		
Comments			

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

1081

CHAIN OF CUSTODY 67779-1

ENVIROTEST: ELAP ID: 10142

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		LAB PROJECT #:	CLIENT PROJECT #:
COMPANY:	Paradigm Environmental	COMPANY:	Same		
ADDRESS:		ADDRESS:		TURNAROUND TIME: (WORKING DAYS)	
CITY: STATE: ZIP:		CITY: STATE: ZIP:		STD	OTHER
PHONE: FAX:		PHONE: FAX:		☐ 1 ☐ 2 ☐ 3 ☒ 5	☐
PROJECT NAME/SITE NAME:		ATTN:	Kate Hansen	ATTN:	Meridith Dillman
		COMMENTS:	Please email results to khansen@paradigmenv.com and jdaloia@paradigmenv.com	Date Due:	7/15/13 12 2DEAH 7/3

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	TOC	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	7/2/13	0905			13247-02	GW	1	X		
2	2	1050			03					
3	3	1235			04					
4	4	1330			05					
5	5	1510			06					
6										
7										
8										
9										
10										

Page 12 of 13

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type:	Y ☒	N ☐
Comments:		
Preservation:	Y ☒	N ☐
Comments:		
Holding Time:	Y ☒	N ☐
Comments:		
Temperature: 28°C	Y ☐	N ☒
Comments:		

01/17/2013

Client

Sampled By: [signature] Date/Time: 7/3/13 1600

Relinquished By: Date/Time:

Received By: Date/Time: 7/8/13 11:15

Received @ Lab By: Date/Time:

Total Cost:

P.I.F.

PARADIGM

ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Stantec

For Lab Project ID

132490

Referencing

Ward St. Site

Prepared

Monday, September 09, 2013

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below:

The 8260 VOA LCS had low recovery(s) for the analyte Bromomethane. This was a result of degradation caused by sulfur dioxide in the client site samples. Bromomethane was verified as not present in the client samples by the use of a low reporting limit verification standard.

Certifies that this report has been approved by the Technical Director or Designee

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM ENVIRONMENTAL SERVICES, INC

Lab Project ID: 132490

Client: **Stantec**

Project Reference: Ward St. Site

Sample Identifier: Trip Blank
Lab Sample ID: 132490-01
Matrix: Water

Date/Time Sampled: 7/3/2013
Date Received: 7/3/2013

Volatile Organics

Analyte	Result	Units	Qualifier	Date/Time Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		7/16/2013 18:45
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		7/16/2013 18:45
1,1,2-Trichloroethane	< 2.00	ug/L		7/16/2013 18:45
1,1-Dichloroethane	< 2.00	ug/L		7/16/2013 18:45
1,1-Dichloroethene	< 2.00	ug/L		7/16/2013 18:45
1,2,3-Trichlorobenzene	< 5.00	ug/L		7/16/2013 18:45
1,2,4-Trichlorobenzene	< 5.00	ug/L		7/16/2013 18:45
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		7/16/2013 18:45
1,2-Dibromoethane	< 2.00	ug/L		7/16/2013 18:45
1,2-Dichlorobenzene	< 2.00	ug/L		7/16/2013 18:45
1,2-Dichloroethane	< 2.00	ug/L		7/16/2013 18:45
1,2-Dichloropropane	< 2.00	ug/L		7/16/2013 18:45
1,3-Dichlorobenzene	< 2.00	ug/L		7/16/2013 18:45
1,4-Dichlorobenzene	< 2.00	ug/L		7/16/2013 18:45
1,4-dioxane	< 20.0	ug/L		7/16/2013 18:45
2-Butanone	< 10.0	ug/L		7/16/2013 18:45
2-Hexanone	< 5.00	ug/L		7/16/2013 18:45
4-Methyl-2-pentanone	< 5.00	ug/L		7/16/2013 18:45
Acetone	< 10.0	ug/L		7/16/2013 18:45
Benzene	< 0.700	ug/L		7/16/2013 18:45
Bromochloromethane	< 5.00	ug/L		7/16/2013 18:45
Bromodichloromethane	< 2.00	ug/L		7/16/2013 18:45
Bromoform	< 5.00	ug/L		7/16/2013 18:45
Bromomethane	< 2.00	ug/L		7/16/2013 18:45
Carbon disulfide	< 2.00	ug/L		7/16/2013 18:45
Carbon Tetrachloride	< 2.00	ug/L		7/16/2013 18:45
Chlorobenzene	< 2.00	ug/L		7/16/2013 18:45
Chloroethane	< 2.00	ug/L		7/16/2013 18:45

PARADIGM ENVIRONMENTAL SERVICES, INC

Lab Project ID: 132490

Client: **Stantec**

Project Reference: Ward St. Site

Sample Identifier: Trip Blank
Lab Sample ID: 132490-01
Matrix: Water

Date/Time Sampled: 7/3/2013
Date Received: 7/3/2013

Chloroform	< 2.00	ug/L	7/16/2013 18:45
Chloromethane	< 2.00	ug/L	7/16/2013 18:45
cis-1,2-Dichloroethene	< 2.00	ug/L	7/16/2013 18:45
cis-1,3-Dichloropropene	< 2.00	ug/L	7/16/2013 18:45
Cyclohexane	< 10.0	ug/L	7/16/2013 18:45
Dibromochloromethane	< 2.00	ug/L	7/16/2013 18:45
Dichlorodifluoromethane	< 2.00	ug/L	7/16/2013 18:45
Ethylbenzene	< 2.00	ug/L	7/16/2013 18:45
Freon 113	< 2.00	ug/L	7/16/2013 18:45
Isopropylbenzene	< 2.00	ug/L	7/16/2013 18:45
m,p-Xylene	< 2.00	ug/L	7/16/2013 18:45
Methyl acetate	< 2.00	ug/L	7/16/2013 18:45
Methyl tert-butyl Ether	< 2.00	ug/L	7/16/2013 18:45
Methylcyclohexane	< 2.00	ug/L	7/16/2013 18:45
Methylene chloride	< 5.00	ug/L	7/16/2013 18:45
o-Xylene	< 2.00	ug/L	7/16/2013 18:45
Styrene	< 5.00	ug/L	7/16/2013 18:45
Tetrachloroethene	< 2.00	ug/L	7/16/2013 18:45
Toluene	< 2.00	ug/L	7/16/2013 18:45
trans-1,2-Dichloroethene	< 2.00	ug/L	7/16/2013 18:45
trans-1,3-Dichloropropene	< 2.00	ug/L	7/16/2013 18:45
Trichloroethene	< 2.00	ug/L	7/16/2013 18:45
Trichlorofluoromethane	< 2.00	ug/L	7/16/2013 18:45
Vinyl chloride	< 2.00	ug/L	7/16/2013 18:45

Method Reference(s): EPA 8260B
EPA 5030

Data File: x06874.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132490

Client: **Stantec**

Project Reference: Ward St. Site

Sample Identifier: WSR-MW-209-GW
Lab Sample ID: 132490-02
Matrix: Groundwater

Date/Time Sampled: 7/3/2013 9:10
Date Received: 7/3/2013

Metals

Analyte	Result	Units	Qualifier	Date/Time Analyzed
Sodium	**587**	mg/L		7/16/2013 21:45

Method Reference(s): EPA 6010C
EPA 3005
Data File: 071613d

Total Organic Carbon

Analyte	Result	Units	Qualifier	Date/Time Analyzed
Total Organic Carbon	**44.0**	mg/L		7/9/2013

Method Reference(s): SM 5310 C
Subcontractor ELAP ID: 10142

Volatile Organics

Analyte	Result	Units	Qualifier	Date/Time Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		7/16/2013 19:08
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		7/16/2013 19:08
1,1,2-Trichloroethane	< 2.00	ug/L		7/16/2013 19:08
1,1-Dichloroethane	< 2.00	ug/L		7/16/2013 19:08
1,1-Dichloroethene	< 2.00	ug/L		7/16/2013 19:08
1,2,3-Trichlorobenzene	< 5.00	ug/L		7/16/2013 19:08
1,2,4-Trichlorobenzene	< 5.00	ug/L		7/16/2013 19:08
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		7/16/2013 19:08
1,2-Dibromoethane	< 2.00	ug/L		7/16/2013 19:08
1,2-Dichlorobenzene	< 2.00	ug/L		7/16/2013 19:08
1,2-Dichloroethane	< 2.00	ug/L		7/16/2013 19:08
1,2-Dichloropropane	< 2.00	ug/L		7/16/2013 19:08
1,3-Dichlorobenzene	< 2.00	ug/L		7/16/2013 19:08
1,4-Dichlorobenzene	< 2.00	ug/L		7/16/2013 19:08
1,4-dioxane	< 20.0	ug/L		7/16/2013 19:08
2-Butanone	< 10.0	ug/L		7/16/2013 19:08
2-Hexanone	< 5.00	ug/L		7/16/2013 19:08
4-Methyl-2-pentanone	< 5.00	ug/L		7/16/2013 19:08

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132490

Client: **Stantec**

Project Reference: Ward St. Site

Sample Identifier: WSR-MW-209-GW
Lab Sample ID: 132490-02
Matrix: Groundwater

Date/Time Sampled: 7/3/2013 9:10
Date Received: 7/3/2013

Acetone	< 10.0	ug/L	7/16/2013 19:08
Benzene	< 0.700	ug/L	7/16/2013 19:08
Bromochloromethane	< 5.00	ug/L	7/16/2013 19:08
Bromodichloromethane	< 2.00	ug/L	7/16/2013 19:08
Bromoform	< 5.00	ug/L	7/16/2013 19:08
Bromomethane	< 2.00	ug/L	7/16/2013 19:08
Carbon disulfide	< 2.00	ug/L	7/16/2013 19:08
Carbon Tetrachloride	< 2.00	ug/L	7/16/2013 19:08
Chlorobenzene	< 2.00	ug/L	7/16/2013 19:08
Chloroethane	< 2.00	ug/L	7/16/2013 19:08
Chloroform	< 2.00	ug/L	7/16/2013 19:08
Chloromethane	< 2.00	ug/L	7/16/2013 19:08
cis-1,2-Dichloroethene	**2.95**	ug/L	7/16/2013 19:08
cis-1,3-Dichloropropene	< 2.00	ug/L	7/16/2013 19:08
Cyclohexane	< 10.0	ug/L	7/16/2013 19:08
Dibromochloromethane	< 2.00	ug/L	7/16/2013 19:08
Dichlorodifluoromethane	< 2.00	ug/L	7/16/2013 19:08
Ethylbenzene	< 2.00	ug/L	7/16/2013 19:08
Freon 113	< 2.00	ug/L	7/16/2013 19:08
Isopropylbenzene	< 2.00	ug/L	7/16/2013 19:08
m,p-Xylene	< 2.00	ug/L	7/16/2013 19:08
Methyl acetate	< 2.00	ug/L	7/16/2013 19:08
Methyl tert-butyl Ether	< 2.00	ug/L	7/16/2013 19:08
Methylcyclohexane	< 2.00	ug/L	7/16/2013 19:08
Methylene chloride	< 5.00	ug/L	7/16/2013 19:08
o-Xylene	< 2.00	ug/L	7/16/2013 19:08
Styrene	< 5.00	ug/L	7/16/2013 19:08
Tetrachloroethene	< 2.00	ug/L	7/16/2013 19:08
Toluene	< 2.00	ug/L	7/16/2013 19:08
trans-1,2-Dichloroethene	< 2.00	ug/L	7/16/2013 19:08

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132490

Client: **Stantec**

Project Reference: Ward St. Site

Sample Identifier: WSR-MW-209-GW
Lab Sample ID: 132490-02
Matrix: Groundwater

Date/Time Sampled: 7/3/2013 9:10
Date Received: 7/3/2013

trans-1,3-Dichloropropene	< 2.00	ug/L	7/16/2013	19:08
Trichloroethene	< 2.00	ug/L	7/16/2013	19:08
Trichlorofluoromethane	< 2.00	ug/L	7/16/2013	19:08
Vinyl chloride	**2.81**	ug/L	7/16/2013	19:08

Method Reference(s): EPA 8260B
EPA 5030

Data File: x06875.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132490

Client: **Stantec**

Project Reference: Ward St. Site

Sample Identifier: WSR-MW-208-GW
Lab Sample ID: 132490-03
Matrix: Groundwater

Date/Time Sampled: 7/3/2013 10:45
Date Received: 7/3/2013

Metals

Analyte	Result	Units	Qualifier	Date/Time Analyzed
Sodium	**306**	mg/L		7/16/2013 21:49

Method Reference(s): EPA 6010C
EPA 3005
Data File: 071613d

Total Organic Carbon

Analyte	Result	Units	Qualifier	Date/Time Analyzed
Total Organic Carbon	**14.0**	mg/L		7/9/2013

Method Reference(s): SM 5310 C
Subcontractor ELAP ID: 10142

Volatile Organics

Analyte	Result	Units	Qualifier	Date/Time Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		7/16/2013 19:31
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		7/16/2013 19:31
1,1,2-Trichloroethane	< 2.00	ug/L		7/16/2013 19:31
1,1-Dichloroethane	< 2.00	ug/L		7/16/2013 19:31
1,1-Dichloroethene	< 2.00	ug/L		7/16/2013 19:31
1,2,3-Trichlorobenzene	< 5.00	ug/L		7/16/2013 19:31
1,2,4-Trichlorobenzene	< 5.00	ug/L		7/16/2013 19:31
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		7/16/2013 19:31
1,2-Dibromoethane	< 2.00	ug/L		7/16/2013 19:31
1,2-Dichlorobenzene	< 2.00	ug/L		7/16/2013 19:31
1,2-Dichloroethane	< 2.00	ug/L		7/16/2013 19:31
1,2-Dichloropropane	< 2.00	ug/L		7/16/2013 19:31
1,3-Dichlorobenzene	< 2.00	ug/L		7/16/2013 19:31
1,4-Dichlorobenzene	< 2.00	ug/L		7/16/2013 19:31
1,4-dioxane	< 20.0	ug/L		7/16/2013 19:31
2-Butanone	< 10.0	ug/L		7/16/2013 19:31
2-Hexanone	< 5.00	ug/L		7/16/2013 19:31
4-Methyl-2-pentanone	< 5.00	ug/L		7/16/2013 19:31

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132490

Client: **Stantec**

Project Reference: Ward St. Site

Sample Identifier: WSR-MW-208-GW
Lab Sample ID: 132490-03
Matrix: Groundwater

Date/Time Sampled: 7/3/2013 10:45
Date Received: 7/3/2013

Acetone	< 10.0	ug/L	7/16/2013 19:31
Benzene	< 0.700	ug/L	7/16/2013 19:31
Bromochloromethane	< 5.00	ug/L	7/16/2013 19:31
Bromodichloromethane	< 2.00	ug/L	7/16/2013 19:31
Bromoform	< 5.00	ug/L	7/16/2013 19:31
Bromomethane	< 2.00	ug/L	7/16/2013 19:31
Carbon disulfide	< 2.00	ug/L	7/16/2013 19:31
Carbon Tetrachloride	< 2.00	ug/L	7/16/2013 19:31
Chlorobenzene	< 2.00	ug/L	7/16/2013 19:31
Chloroethane	< 2.00	ug/L	7/16/2013 19:31
Chloroform	< 2.00	ug/L	7/16/2013 19:31
Chloromethane	< 2.00	ug/L	7/16/2013 19:31
cis-1,2-Dichloroethene	**2.38**	ug/L	7/16/2013 19:31
cis-1,3-Dichloropropene	< 2.00	ug/L	7/16/2013 19:31
Cyclohexane	< 10.0	ug/L	7/16/2013 19:31
Dibromochloromethane	< 2.00	ug/L	7/16/2013 19:31
Dichlorodifluoromethane	< 2.00	ug/L	7/16/2013 19:31
Ethylbenzene	< 2.00	ug/L	7/16/2013 19:31
Freon 113	< 2.00	ug/L	7/16/2013 19:31
Isopropylbenzene	< 2.00	ug/L	7/16/2013 19:31
m,p-Xylene	< 2.00	ug/L	7/16/2013 19:31
Methyl acetate	< 2.00	ug/L	7/16/2013 19:31
Methyl tert-butyl Ether	< 2.00	ug/L	7/16/2013 19:31
Methylcyclohexane	< 2.00	ug/L	7/16/2013 19:31
Methylene chloride	< 5.00	ug/L	7/16/2013 19:31
o-Xylene	< 2.00	ug/L	7/16/2013 19:31
Styrene	< 5.00	ug/L	7/16/2013 19:31
Tetrachloroethene	< 2.00	ug/L	7/16/2013 19:31
Toluene	< 2.00	ug/L	7/16/2013 19:31
trans-1,2-Dichloroethene	< 2.00	ug/L	7/16/2013 19:31

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132490

Client: **Stantec**

Project Reference: Ward St. Site

Sample Identifier: WSR-MW-208-GW
Lab Sample ID: 132490-03
Matrix: Groundwater

Date/Time Sampled: 7/3/2013 10:45
Date Received: 7/3/2013

trans-1,3-Dichloropropene	< 2.00	ug/L	7/16/2013	19:31
Trichloroethene	< 2.00	ug/L	7/16/2013	19:31
Trichlorofluoromethane	< 2.00	ug/L	7/16/2013	19:31
Vinyl chloride	**2.08**	ug/L	7/16/2013	19:31

Method Reference(s): EPA 8260B
EPA 5030

Data File: x06876.D

PARADIGM ENVIRONMENTAL SERVICES, INC

Lab Project ID: 132490

Client: **Stantec**

Project Reference: Ward St. Site

Sample Identifier: WSR-MW-Dup-GW
Lab Sample ID: 132490-04
Matrix: Groundwater

Date/Time Sampled: 7/3/2013 10:45
Date Received: 7/3/2013

Volatile Organics

Analyte	Result	Units	Qualifier	Date/Time Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		7/16/2013 19:54
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		7/16/2013 19:54
1,1,2-Trichloroethane	< 2.00	ug/L		7/16/2013 19:54
1,1-Dichloroethane	< 2.00	ug/L		7/16/2013 19:54
1,1-Dichloroethene	< 2.00	ug/L		7/16/2013 19:54
1,2,3-Trichlorobenzene	< 5.00	ug/L		7/16/2013 19:54
1,2,4-Trichlorobenzene	< 5.00	ug/L		7/16/2013 19:54
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		7/16/2013 19:54
1,2-Dibromoethane	< 2.00	ug/L		7/16/2013 19:54
1,2-Dichlorobenzene	< 2.00	ug/L		7/16/2013 19:54
1,2-Dichloroethane	< 2.00	ug/L		7/16/2013 19:54
1,2-Dichloropropane	< 2.00	ug/L		7/16/2013 19:54
1,3-Dichlorobenzene	< 2.00	ug/L		7/16/2013 19:54
1,4-Dichlorobenzene	< 2.00	ug/L		7/16/2013 19:54
1,4-dioxane	< 20.0	ug/L		7/16/2013 19:54
2-Butanone	< 10.0	ug/L		7/16/2013 19:54
2-Hexanone	< 5.00	ug/L		7/16/2013 19:54
4-Methyl-2-pentanone	< 5.00	ug/L		7/16/2013 19:54
Acetone	< 10.0	ug/L		7/16/2013 19:54
Benzene	< 0.700	ug/L		7/16/2013 19:54
Bromochloromethane	< 5.00	ug/L		7/16/2013 19:54
Bromodichloromethane	< 2.00	ug/L		7/16/2013 19:54
Bromoform	< 5.00	ug/L		7/16/2013 19:54
Bromomethane	< 2.00	ug/L		7/16/2013 19:54
Carbon disulfide	< 2.00	ug/L		7/16/2013 19:54
Carbon Tetrachloride	< 2.00	ug/L		7/16/2013 19:54
Chlorobenzene	< 2.00	ug/L		7/16/2013 19:54
Chloroethane	< 2.00	ug/L		7/16/2013 19:54

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132490

Client: **Stantec**

Project Reference: Ward St. Site

Sample Identifier: WSR-MW-Dup-GW
Lab Sample ID: 132490-04
Matrix: Groundwater

Date/Time Sampled: 7/3/2013 10:45
Date Received: 7/3/2013

Chloroform	< 2.00	ug/L	7/16/2013 19:54
Chloromethane	< 2.00	ug/L	7/16/2013 19:54
cis-1,2-Dichloroethene	**2.67**	ug/L	7/16/2013 19:54
cis-1,3-Dichloropropene	< 2.00	ug/L	7/16/2013 19:54
Cyclohexane	< 10.0	ug/L	7/16/2013 19:54
Dibromochloromethane	< 2.00	ug/L	7/16/2013 19:54
Dichlorodifluoromethane	< 2.00	ug/L	7/16/2013 19:54
Ethylbenzene	< 2.00	ug/L	7/16/2013 19:54
Freon 113	< 2.00	ug/L	7/16/2013 19:54
Isopropylbenzene	< 2.00	ug/L	7/16/2013 19:54
m,p-Xylene	< 2.00	ug/L	7/16/2013 19:54
Methyl acetate	< 2.00	ug/L	7/16/2013 19:54
Methyl tert-butyl Ether	< 2.00	ug/L	7/16/2013 19:54
Methylcyclohexane	< 2.00	ug/L	7/16/2013 19:54
Methylene chloride	< 5.00	ug/L	7/16/2013 19:54
o-Xylene	< 2.00	ug/L	7/16/2013 19:54
Styrene	< 5.00	ug/L	7/16/2013 19:54
Tetrachloroethene	< 2.00	ug/L	7/16/2013 19:54
Toluene	< 2.00	ug/L	7/16/2013 19:54
trans-1,2-Dichloroethene	< 2.00	ug/L	7/16/2013 19:54
trans-1,3-Dichloropropene	< 2.00	ug/L	7/16/2013 19:54
Trichloroethene	< 2.00	ug/L	7/16/2013 19:54
Trichlorofluoromethane	< 2.00	ug/L	7/16/2013 19:54
Vinyl chloride	< 2.00	ug/L	7/16/2013 19:54

Method Reference(s): EPA 8260B
EPA 5030
Data File: x06877.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132490

Client: **Stantec**

Project Reference: Ward St. Site

Sample Identifier: WSR-MW-16R-GW
Lab Sample ID: 132490-05
Matrix: Groundwater

Date/Time Sampled: 7/3/2013 13:00
Date Received: 7/3/2013

Metals

Analyte	Result	Units	Qualifier	Date/Time Analyzed
Sodium	**575**	mg/L		7/16/2013 21:53

Method Reference(s): EPA 6010C
EPA 3005
Data File: 071613d

Total Organic Carbon

Analyte	Result	Units	Qualifier	Date/Time Analyzed
Total Organic Carbon	**42.0**	mg/L		7/9/2013

Method Reference(s): SM 5310 C
Subcontractor ELAP ID: 10142

Volatile Organics

Analyte	Result	Units	Qualifier	Date/Time Analyzed
1,1,1-Trichloroethane	< 20.0	ug/L		7/17/2013 14:53
1,1,2,2-Tetrachloroethane	< 20.0	ug/L		7/17/2013 14:53
1,1,2-Trichloroethane	< 20.0	ug/L		7/17/2013 14:53
1,1-Dichloroethane	< 20.0	ug/L		7/17/2013 14:53
1,1-Dichloroethene	< 20.0	ug/L		7/17/2013 14:53
1,2,3-Trichlorobenzene	< 50.0	ug/L		7/17/2013 14:53
1,2,4-Trichlorobenzene	< 50.0	ug/L		7/17/2013 14:53
1,2-Dibromo-3-Chloropropane	< 100	ug/L		7/17/2013 14:53
1,2-Dibromoethane	< 20.0	ug/L		7/17/2013 14:53
1,2-Dichlorobenzene	< 20.0	ug/L		7/17/2013 14:53
1,2-Dichloroethane	< 20.0	ug/L		7/17/2013 14:53
1,2-Dichloropropane	< 20.0	ug/L		7/17/2013 14:53
1,3-Dichlorobenzene	< 20.0	ug/L		7/17/2013 14:53
1,4-Dichlorobenzene	< 20.0	ug/L		7/17/2013 14:53
1,4-dioxane	< 200	ug/L		7/17/2013 14:53
2-Butanone	< 100	ug/L		7/17/2013 14:53
2-Hexanone	< 50.0	ug/L		7/17/2013 14:53
4-Methyl-2-pentanone	< 50.0	ug/L		7/17/2013 14:53

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132490

Client: **Stantec**

Project Reference: Ward St. Site

Sample Identifier: WSR-MW-16R-GW
Lab Sample ID: 132490-05
Matrix: Groundwater

Date/Time Sampled: 7/3/2013 13:00
Date Received: 7/3/2013

Acetone	< 100	ug/L	7/17/2013 14:53
Benzene	< 7.00	ug/L	7/17/2013 14:53
Bromochloromethane	< 50.0	ug/L	7/17/2013 14:53
Bromodichloromethane	< 20.0	ug/L	7/17/2013 14:53
Bromoform	< 50.0	ug/L	7/17/2013 14:53
Bromomethane	< 20.0	ug/L	7/17/2013 14:53
Carbon disulfide	< 20.0	ug/L	7/17/2013 14:53
Carbon Tetrachloride	< 20.0	ug/L	7/17/2013 14:53
Chlorobenzene	< 20.0	ug/L	7/17/2013 14:53
Chloroethane	< 20.0	ug/L	7/17/2013 14:53
Chloroform	< 20.0	ug/L	7/17/2013 14:53
Chloromethane	< 20.0	ug/L	7/17/2013 14:53
cis-1,2-Dichloroethene	**664**	ug/L	7/17/2013 14:53
cis-1,3-Dichloropropene	< 20.0	ug/L	7/17/2013 14:53
Cyclohexane	< 100	ug/L	7/17/2013 14:53
Dibromochloromethane	< 20.0	ug/L	7/17/2013 14:53
Dichlorodifluoromethane	< 20.0	ug/L	7/17/2013 14:53
Ethylbenzene	< 20.0	ug/L	7/17/2013 14:53
Freon 113	< 20.0	ug/L	7/17/2013 14:53
Isopropylbenzene	< 20.0	ug/L	7/17/2013 14:53
m,p-Xylene	< 20.0	ug/L	7/17/2013 14:53
Methyl acetate	< 20.0	ug/L	7/17/2013 14:53
Methyl tert-butyl Ether	< 20.0	ug/L	7/17/2013 14:53
Methylcyclohexane	< 20.0	ug/L	7/17/2013 14:53
Methylene chloride	< 50.0	ug/L	7/17/2013 14:53
o-Xylene	< 20.0	ug/L	7/17/2013 14:53
Styrene	< 50.0	ug/L	7/17/2013 14:53
Tetrachloroethene	< 20.0	ug/L	7/17/2013 14:53
Toluene	< 20.0	ug/L	7/17/2013 14:53
trans-1,2-Dichloroethene	< 20.0	ug/L	7/17/2013 14:53

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132490

Client: **Stantec**

Project Reference: Ward St. Site

Sample Identifier: WSR-MW-16R-GW
Lab Sample ID: 132490-05
Matrix: Groundwater

Date/Time Sampled: 7/3/2013 13:00
Date Received: 7/3/2013

trans-1,3-Dichloropropene	< 20.0	ug/L	7/17/2013	14:53
Trichloroethene	< 20.0	ug/L	7/17/2013	14:53
Trichlorofluoromethane	< 20.0	ug/L	7/17/2013	14:53
Vinyl chloride	**1040**	ug/L	7/17/2013	14:53

Method Reference(s): EPA 8260B
EPA 5030
Data File: x06912.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Monday, September 09, 2013

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132490

Client: **Stantec**

Project Reference: Ward St. Site

Sample Identifier: WSR-MW-16-GW
Lab Sample ID: 132490-06
Matrix: Groundwater

Date/Time Sampled: 7/3/2013 14:30
Date Received: 7/3/2013

Metals

Analyte	Result	Units	Qualifier	Date/Time Analyzed
Sodium	**2040**	mg/L		7/16/2013 21:58

Method Reference(s): EPA 6010C
EPA 3005
Data File: 071613d

Total Organic Carbon

Analyte	Result	Units	Qualifier	Date/Time Analyzed
Total Organic Carbon	**92.0**	mg/L		7/9/2013

Method Reference(s): SM 5310 C
Subcontractor ELAP ID: 10142

Volatile Organics

Analyte	Result	Units	Qualifier	Date/Time Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		7/17/2013 15:16
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		7/17/2013 15:16
1,1,2-Trichloroethane	< 2.00	ug/L		7/17/2013 15:16
1,1-Dichloroethane	< 2.00	ug/L		7/17/2013 15:16
1,1-Dichloroethene	< 2.00	ug/L		7/17/2013 15:16
1,2,3-Trichlorobenzene	< 5.00	ug/L		7/17/2013 15:16
1,2,4-Trichlorobenzene	< 5.00	ug/L		7/17/2013 15:16
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		7/17/2013 15:16
1,2-Dibromoethane	< 2.00	ug/L		7/17/2013 15:16
1,2-Dichlorobenzene	< 2.00	ug/L		7/17/2013 15:16
1,2-Dichloroethane	< 2.00	ug/L		7/17/2013 15:16
1,2-Dichloropropane	< 2.00	ug/L		7/17/2013 15:16
1,3-Dichlorobenzene	< 2.00	ug/L		7/17/2013 15:16
1,4-Dichlorobenzene	< 2.00	ug/L		7/17/2013 15:16
1,4-dioxane	< 20.0	ug/L		7/17/2013 15:16
2-Butanone	< 10.0	ug/L		7/17/2013 15:16
2-Hexanone	< 5.00	ug/L		7/17/2013 15:16
4-Methyl-2-pentanone	< 5.00	ug/L		7/17/2013 15:16

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132490

Client: **Stantec**

Project Reference: Ward St. Site

Sample Identifier: WSR-MW-16-GW
Lab Sample ID: 132490-06
Matrix: Groundwater

Date/Time Sampled: 7/3/2013 14:30
Date Received: 7/3/2013

Acetone	< 10.0	ug/L	7/17/2013 15:16
Benzene	< 0.700	ug/L	7/17/2013 15:16
Bromochloromethane	< 5.00	ug/L	7/17/2013 15:16
Bromodichloromethane	< 2.00	ug/L	7/17/2013 15:16
Bromoform	< 5.00	ug/L	7/17/2013 15:16
Bromomethane	< 2.00	ug/L	7/17/2013 15:16
Carbon disulfide	< 2.00	ug/L	7/17/2013 15:16
Carbon Tetrachloride	< 2.00	ug/L	7/17/2013 15:16
Chlorobenzene	< 2.00	ug/L	7/17/2013 15:16
Chloroethane	< 2.00	ug/L	7/17/2013 15:16
Chloroform	< 2.00	ug/L	7/17/2013 15:16
Chloromethane	< 2.00	ug/L	7/17/2013 15:16
cis-1,2-Dichloroethene	**9.39**	ug/L	7/17/2013 15:16
cis-1,3-Dichloropropene	< 2.00	ug/L	7/17/2013 15:16
Cyclohexane	< 10.0	ug/L	7/17/2013 15:16
Dibromochloromethane	< 2.00	ug/L	7/17/2013 15:16
Dichlorodifluoromethane	< 2.00	ug/L	7/17/2013 15:16
Ethylbenzene	< 2.00	ug/L	7/17/2013 15:16
Freon 113	< 2.00	ug/L	7/17/2013 15:16
Isopropylbenzene	< 2.00	ug/L	7/17/2013 15:16
m,p-Xylene	< 2.00	ug/L	7/17/2013 15:16
Methyl acetate	< 2.00	ug/L	7/17/2013 15:16
Methyl tert-butyl Ether	< 2.00	ug/L	7/17/2013 15:16
Methylcyclohexane	< 2.00	ug/L	7/17/2013 15:16
Methylene chloride	< 5.00	ug/L	7/17/2013 15:16
o-Xylene	< 2.00	ug/L	7/17/2013 15:16
Styrene	< 5.00	ug/L	7/17/2013 15:16
Tetrachloroethene	< 2.00	ug/L	7/17/2013 15:16
Toluene	< 2.00	ug/L	7/17/2013 15:16
trans-1,2-Dichloroethene	**4.89**	ug/L	7/17/2013 15:16

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132490

Client: **Stantec**

Project Reference: Ward St. Site

Sample Identifier: WSR-MW-16-GW
Lab Sample ID: 132490-06
Matrix: Groundwater

Date/Time Sampled: 7/3/2013 14:30
Date Received: 7/3/2013

trans-1,3-Dichloropropene	< 2.00	ug/L		7/17/2013 15:16
Trichloroethene	< 2.00	ug/L		7/17/2013 15:16
Trichlorofluoromethane	< 2.00	ug/L		7/17/2013 15:16
Vinyl chloride	**6.65**	ug/L		7/17/2013 15:16

Method Reference(s): EPA 8260B
EPA 5030

Data File: x06913.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: **Stantec**
Project Reference: Ward St. Site
Lab Project ID: 132490
Matrix: Groundwater

TCLP Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Sodium	<2.50	mg/L		7/16/2013

Method Reference(s): EPA 6010C
EPA 3005
Data File: 071613d
QC Batch ID: QC130715waters
QC Number: 1

Report Prepared Monday, September 09, 2013

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: **Stantec**

Project Reference: Ward St. Site

Lab Project ID: 132490

Matrix: TCLP Extract

Metals

Analyte	LCS Added	LCSD Added	Spike Units	LCS Result	LCSD Result	LCS % Recovery	LCSD % Recovery	% Rec Limits	LCS Outliers	LCSD Outliers	Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed
Sodium	12.0	12.0	mg/L	12.1	12.1	101	101	85 - 115			0.294	20		7/16/2013

Method Reference(s): EPA 6010C
EPA 3005

Data File: 071613d

QC Number: 1

QC Batch ID: QC130715waters

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: **Stantec**
Project Reference: Ward St. Site
Lab Project ID: 132490
Matrix: Groundwater

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	<2.00	ug/L		7/16/2013
1,1,2,2-Tetrachloroethane	<2.00	ug/L		7/16/2013
1,1,2-Trichloroethane	<2.00	ug/L		7/16/2013
1,1-Dichloroethane	<2.00	ug/L		7/16/2013
1,1-Dichloroethene	<2.00	ug/L		7/16/2013
1,2,3-Trichlorobenzene	<5.00	ug/L		7/16/2013
1,2,4-Trichlorobenzene	<5.00	ug/L		7/16/2013
1,2-Dibromo-3-Chloropropane	<10.0	ug/L		7/16/2013
1,2-Dibromoethane	<2.00	ug/L		7/16/2013
1,2-Dichlorobenzene	<2.00	ug/L		7/16/2013
1,2-Dichloroethane	<2.00	ug/L		7/16/2013
1,2-Dichloropropane	<2.00	ug/L		7/16/2013
1,3-Dichlorobenzene	<2.00	ug/L		7/16/2013
1,4-Dichlorobenzene	<2.00	ug/L		7/16/2013
1,4-dioxane	<20.0	ug/L		7/16/2013
2-Butanone	<10.0	ug/L		7/16/2013
2-Hexanone	<5.00	ug/L		7/16/2013
4-Methyl-2-pentanone	<5.00	ug/L		7/16/2013
Acetone	<10.0	ug/L		7/16/2013
Benzene	<0.700	ug/L		7/16/2013
Bromochloromethane	<5.00	ug/L		7/16/2013
Bromodichloromethane	<2.00	ug/L		7/16/2013
Bromoform	<5.00	ug/L		7/16/2013
Bromomethane	<2.00	ug/L		7/16/2013
Carbon disulfide	<2.00	ug/L		7/16/2013
Carbon Tetrachloride	<2.00	ug/L		7/16/2013
Chlorobenzene	<2.00	ug/L		7/16/2013
Chloroethane	<2.00	ug/L		7/16/2013

PARADIGM ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: **Stantec**
Project Reference: Ward St. Site
Lab Project ID: 132490
Matrix: Groundwater

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
Chloroform	<2.00	ug/L		7/16/2013
Chloromethane	<2.00	ug/L		7/16/2013
cis-1,2-Dichloroethene	<2.00	ug/L		7/16/2013
cis-1,3-Dichloropropene	<2.00	ug/L		7/16/2013
Cyclohexane	<10.0	ug/L		7/16/2013
Dibromochloromethane	<2.00	ug/L		7/16/2013
Dichlorodifluoromethane	<2.00	ug/L		7/16/2013
Ethylbenzene	<2.00	ug/L		7/16/2013
Freon 113	<2.00	ug/L		7/16/2013
Isopropylbenzene	<2.00	ug/L		7/16/2013
m,p-Xylene	<2.00	ug/L		7/16/2013
Methyl acetate	<2.00	ug/L		7/16/2013
Methyl tert-butyl Ether	<2.00	ug/L		7/16/2013
Methylcyclohexane	<2.00	ug/L		7/16/2013
Methylene chloride	<5.00	ug/L		7/16/2013
o-Xylene	<2.00	ug/L		7/16/2013
Styrene	<5.00	ug/L		7/16/2013
Tetrachloroethene	<2.00	ug/L		7/16/2013
Toluene	<2.00	ug/L		7/16/2013
trans-1,2-Dichloroethene	<2.00	ug/L		7/16/2013
trans-1,3-Dichloropropene	<2.00	ug/L		7/16/2013
Trichloroethene	<2.00	ug/L		7/16/2013
Trichlorofluoromethane	<2.00	ug/L		7/16/2013
Vinyl chloride	<2.00	ug/L		7/16/2013

Method Reference(s): EPA 8260B
EPA 5030
Data File: x06867.D
QC Batch ID: voaw071613
QC Number: 1

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: **Stantec**

Project Reference: Ward St. Site

Lab Project ID: 132490

Matrix: Groundwater

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
1,1,1-Trichloroethane	50.0	ug/L	45.6	91.2	84.7 - 113		7/16/2013
1,1,2,2-Tetrachloroethane	50.0	ug/L	51.2	102	85.9 - 114		7/16/2013
1,1,2-Trichloroethane	50.0	ug/L	47.8	95.7	81.1 - 105		7/16/2013
1,1-Dichloroethane	50.0	ug/L	46.6	93.2	81.2 - 109		7/16/2013
1,1-Dichloroethene	50.0	ug/L	46.1	92.2	82.1 - 110		7/16/2013
1,2-Dichlorobenzene	50.0	ug/L	48.7	97.3	83.9 - 106		7/16/2013
1,2-Dichloroethane	50.0	ug/L	44.0	88.0	77.7 - 115		7/16/2013
1,2-Dichloropropane	50.0	ug/L	47.6	95.2	81.6 - 107		7/16/2013
1,3-Dichlorobenzene	50.0	ug/L	48.6	97.2	82.9 - 104		7/16/2013
1,4-Dichlorobenzene	50.0	ug/L	46.7	93.4	81.3 - 103		7/16/2013
Benzene	50.0	ug/L	50.3	101	84.1 - 105		7/16/2013
Bromodichloromethane	50.0	ug/L	49.2	98.4	84 - 113		7/16/2013
Bromoform	50.0	ug/L	52.5	105	85.5 - 114		7/16/2013
Bromomethane	50.0	ug/L	13.4	26.8	75.3 - 135	*	7/16/2013

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: **Stantec**

Project Reference: Ward St. Site

Lab Project ID: 132490

Matrix: Groundwater

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
Carbon Tetrachloride	50.0	ug/L	46.8	93.6	83.9 - 118		7/16/2013
Chlorobenzene	50.0	ug/L	48.5	96.9	83.7 - 103		7/16/2013
Chloroethane	50.0	ug/L	53.1	106	83.6 - 115		7/16/2013
Chloroform	50.0	ug/L	45.9	91.7	81.7 - 108		7/16/2013
Chloromethane	50.0	ug/L	50.1	100	70.7 - 130		7/16/2013
cis-1,3-Dichloropropene	50.0	ug/L	53.7	107	91.2 - 111		7/16/2013
Dibromochloromethane	50.0	ug/L	53.1	106	83.7 - 119		7/16/2013
Ethylbenzene	50.0	ug/L	47.9	95.9	86 - 107		7/16/2013
Methylene chloride	50.0	ug/L	49.0	98.0	84 - 118		7/16/2013
Tetrachloroethene	50.0	ug/L	50.3	101	84.4 - 108		7/16/2013
Toluene	50.0	ug/L	48.5	97.0	85.9 - 102		7/16/2013
trans-1,2-Dichloroethene	50.0	ug/L	46.4	92.7	82.3 - 108		7/16/2013
trans-1,3-Dichloropropene	50.0	ug/L	51.2	102	86.9 - 110		7/16/2013
Trichloroethene	50.0	ug/L	50.0	100	86.1 - 104		7/16/2013

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: **Stantec**

Project Reference: Ward St. Site

Lab Project ID: 132490

Matrix: Groundwater

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
Trichlorofluoromethane	50.0	ug/L	47.3	94.6	78.8 - 122		7/16/2013
Vinyl chloride	50.0	ug/L	53.7	107	74.9 - 130		7/16/2013

Method Reference(s): EPA 8260B
EPA 5030

Data File: x06881.D

QC Number: 1

QC Batch ID: voaw071613

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: **Stantec**
Project Reference: Ward St. Site
Lab Project ID: 132490
Matrix: Groundwater

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	<2.00	ug/L		7/17/2013
1,1,2,2-Tetrachloroethane	<2.00	ug/L		7/17/2013
1,1,2-Trichloroethane	<2.00	ug/L		7/17/2013
1,1-Dichloroethane	<2.00	ug/L		7/17/2013
1,1-Dichloroethene	<2.00	ug/L		7/17/2013
1,2,3-Trichlorobenzene	<5.00	ug/L		7/17/2013
1,2,4-Trichlorobenzene	<5.00	ug/L		7/17/2013
1,2-Dibromo-3-Chloropropane	<10.0	ug/L		7/17/2013
1,2-Dibromoethane	<2.00	ug/L		7/17/2013
1,2-Dichlorobenzene	<2.00	ug/L		7/17/2013
1,2-Dichloroethane	<2.00	ug/L		7/17/2013
1,2-Dichloropropane	<2.00	ug/L		7/17/2013
1,3-Dichlorobenzene	<2.00	ug/L		7/17/2013
1,4-Dichlorobenzene	<2.00	ug/L		7/17/2013
1,4-dioxane	<20.0	ug/L		7/17/2013
2-Butanone	<10.0	ug/L		7/17/2013
2-Hexanone	<5.00	ug/L		7/17/2013
4-Methyl-2-pentanone	<5.00	ug/L		7/17/2013
Acetone	<10.0	ug/L		7/17/2013
Benzene	<0.700	ug/L		7/17/2013
Bromochloromethane	<5.00	ug/L		7/17/2013
Bromodichloromethane	<2.00	ug/L		7/17/2013
Bromoform	<5.00	ug/L		7/17/2013
Bromomethane	<2.00	ug/L		7/17/2013
Carbon disulfide	<2.00	ug/L		7/17/2013
Carbon Tetrachloride	<2.00	ug/L		7/17/2013
Chlorobenzene	<2.00	ug/L		7/17/2013
Chloroethane	<2.00	ug/L		7/17/2013

PARADIGM ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: **Stantec**
Project Reference: Ward St. Site
Lab Project ID: 132490
Matrix: Groundwater

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
Chloroform	<2.00	ug/L		7/17/2013
Chloromethane	<2.00	ug/L		7/17/2013
cis-1,2-Dichloroethene	<2.00	ug/L		7/17/2013
cis-1,3-Dichloropropene	<2.00	ug/L		7/17/2013
Cyclohexane	<10.0	ug/L		7/17/2013
Dibromochloromethane	<2.00	ug/L		7/17/2013
Dichlorodifluoromethane	<2.00	ug/L		7/17/2013
Ethylbenzene	<2.00	ug/L		7/17/2013
Freon 113	<2.00	ug/L		7/17/2013
Isopropylbenzene	<2.00	ug/L		7/17/2013
m,p-Xylene	<2.00	ug/L		7/17/2013
Methyl acetate	<2.00	ug/L		7/17/2013
Methyl tert-butyl Ether	<2.00	ug/L		7/17/2013
Methylcyclohexane	<2.00	ug/L		7/17/2013
Methylene chloride	<5.00	ug/L		7/17/2013
o-Xylene	<2.00	ug/L		7/17/2013
Styrene	<5.00	ug/L		7/17/2013
Tetrachloroethene	<2.00	ug/L		7/17/2013
Toluene	<2.00	ug/L		7/17/2013
trans-1,2-Dichloroethene	<2.00	ug/L		7/17/2013
trans-1,3-Dichloropropene	<2.00	ug/L		7/17/2013
Trichloroethene	<2.00	ug/L		7/17/2013
Trichlorofluoromethane	<2.00	ug/L		7/17/2013
Vinyl chloride	<2.00	ug/L		7/17/2013

Method Reference(s): EPA 8260B
EPA 5030
Data File: x06910.D
QC Batch ID: voaw071713
QC Number: 1

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: **Stantec**

Project Reference: Ward St. Site

Lab Project ID: 132490

Matrix: Groundwater

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
1,1,1-Trichloroethane	50.0	ug/L	46.0	92.0	84.7 - 113		7/17/2013
1,1,2,2-Tetrachloroethane	50.0	ug/L	50.5	101	85.9 - 114		7/17/2013
1,1,2-Trichloroethane	50.0	ug/L	48.1	96.2	81.1 - 105		7/17/2013
1,1-Dichloroethane	50.0	ug/L	47.2	94.4	81.2 - 109		7/17/2013
1,1-Dichloroethene	50.0	ug/L	47.1	94.3	82.1 - 110		7/17/2013
1,2-Dichlorobenzene	50.0	ug/L	49.1	98.1	83.9 - 106		7/17/2013
1,2-Dichloroethane	50.0	ug/L	43.6	87.2	77.7 - 115		7/17/2013
1,2-Dichloropropane	50.0	ug/L	47.2	94.5	81.6 - 107		7/17/2013
1,3-Dichlorobenzene	50.0	ug/L	49.3	98.5	82.9 - 104		7/17/2013
1,4-Dichlorobenzene	50.0	ug/L	48.1	96.1	81.3 - 103		7/17/2013
Benzene	50.0	ug/L	50.3	101	84.1 - 105		7/17/2013
Bromodichloromethane	50.0	ug/L	48.5	97.0	84 - 113		7/17/2013
Bromoform	50.0	ug/L	51.1	102	85.5 - 114		7/17/2013
Bromomethane	50.0	ug/L	30.0	60.1	75.3 - 135	*	7/17/2013

PARADIGM ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: **Stantec**

Project Reference: Ward St. Site

Lab Project ID: 132490

Matrix: Groundwater

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
Carbon Tetrachloride	50.0	ug/L	47.1	94.2	83.9 - 118		7/17/2013
Chlorobenzene	50.0	ug/L	49.2	98.4	83.7 - 103		7/17/2013
Chloroethane	50.0	ug/L	54.2	108	83.6 - 115		7/17/2013
Chloroform	50.0	ug/L	45.5	90.9	81.7 - 108		7/17/2013
Chloromethane	50.0	ug/L	53.3	107	70.7 - 130		7/17/2013
cis-1,3-Dichloropropene	50.0	ug/L	51.9	104	91.2 - 111		7/17/2013
Dibromochloromethane	50.0	ug/L	51.8	104	83.7 - 119		7/17/2013
Ethylbenzene	50.0	ug/L	49.3	98.5	86 - 107		7/17/2013
Methylene chloride	50.0	ug/L	49.5	99.0	84 - 118		7/17/2013
Tetrachloroethene	50.0	ug/L	51.6	103	84.4 - 108		7/17/2013
Toluene	50.0	ug/L	48.8	97.5	85.9 - 102		7/17/2013
trans-1,2-Dichloroethene	50.0	ug/L	47.2	94.5	82.3 - 108		7/17/2013
trans-1,3-Dichloropropene	50.0	ug/L	50.0	100	86.9 - 110		7/17/2013
Trichloroethene	50.0	ug/L	50.8	102	86.1 - 104		7/17/2013

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: **Stantec**

Project Reference: Ward St. Site

Lab Project ID: 132490

Matrix: Groundwater

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
Trichlorofluoromethane	50.0	ug/L	48.7	97.4	78.8 - 122		7/17/2013
Vinyl chloride	50.0	ug/L	55.3	111	74.9 - 130		7/17/2013

Method Reference(s): EPA 8260B
EPA 5030

Data File: x06911.D

QC Number: 1

QC Batch ID: voaw071713

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"V" = Sample concentration is >10 times the spike. No meaningful Spike Recovery can be calculated.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"C" = Concentration differs by more than 40% between the primary and secondary analytical columns.

10f2

PARADIGM
ENVIRONMENTAL SERVICES, INC.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:	INVOICE TO:	LAB PROJECT ID
CLIENT: Stantec	CLIENT: Germanow-Simon	~~132940~~ 132490
ADDRESS: 61 Commercial	ADDRESS: 408 St Paul St.	Quotation #: RREAH 712
CITY: Rochester STATE: Ny ZIP: 14614	CITY: Rochester STATE: Ny ZIP:	
PHONE: 585-413-5266	PHONE: 585-732-0202	Email:
ATTN: Mike Storonsky	ATTN: John Polk	

PROJECT REFERENCE: Ward St Site

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	8260 TCL VOCs	TOC (SM 5310)	Total N (Bos/[illegible])	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	7/3/13	0800		X	Trip Blank	WA	1	X				01
2	7/3/13	0910		X	WSR-MW-209-GW	WG	4	X	X	X		02
3	7/3/13	1015		X	WSR-MW-208-GW	WG	4	X	X	X		03
4	7/3/13	1045		X	WSR-MW-DUP-GW	WG	2	X				04
5	7/3/13	1300		X	WSR-MW-16R-GW	WG	4	X	X	X		05
6	7/3/13	1430		X	WSR-MW-16-GW	WG	4	X	X	X		06
7												
8												
9												
10											6°C iced	

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	Batch QC	☒	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☐
Rush 2 day	☐	Category B	☐		
Rush 1 day	☐				
Other please indicate: 10 day	☒	Other please indicate:	☐	Other EDD please indicate: EQuIS EDD required (both 4 file EFWEDD & NYSDEC formats)	☒

Katie Premo	7/3/13 1455	Total Cost:
Sampled By	Date/Time	
[signature]	7/3/13 1455	
Relinquished By	Date/Time	
[signature]	7/3/13 1615	P.I.F.
Received By	Date/Time	
Elizabeth A Honch	7/3/13 1513	
Received @ Lab By	Date/Time	

PARADIGM

Chain of Custody Supplement

Client: Stantec **Completed by:** MWail

Lab Project ID: ~~132490~~ 132490 **Date:** 7/3/13

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X		
Comments			
Preservation	X		
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		X noted
Comments	6°C iced started in field		
Sufficient Sample Quantity	X		
Comments			

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

1 of 1

CHAIN OF CUSTODY 6799-2

ENVIROTEST: ELAP ID: 10142

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		LAB PROJECT #:	CLIENT PROJECT #:
COMPANY:	Paradigm Environmental	COMPANY:	Same		
ADDRESS:		ADDRESS:		TURNAROUND TIME: (WORKING DAYS)	
CITY: STATE: ZIP:		CITY: STATE: ZIP:		STD OTHER	
PHONE: FAX:		PHONE: FAX:		☐ 1 ☐ 2 ☐ 3 ☒ 5 ☐	
ATTN:	Kate Hansen	ATTN:	Meridith Dillman		
COMMENTS:	Please email results to khansen@paradigmenv.com and jdaloia@paradigmenv.com			Date Due:	7/12

PROJECT NAME/SITE NAME:

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	TCL	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	7/3/13	0915			13294E-02	GW	1	X		
2		0945			-03					
3		1300			-05					
4		1730			-06					
5										
6										
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10										

Page 6 of 12 7 8 9

****LAB USE ONLY BELOW THIS LINE****

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type:	Y ☒	N ☐
Comments:		
Preservation:	Y ☒	N ☐
Comments:		
Holding Time:	Y ☒	N ☐
Comments:		
Temperature: 28°C	Y ☐	N ☒
Comments:		

07/15/2013

Client

Sampled By: Mark Vail Date/Time: 7/3/13 1600

Relinquished By: Date/Time:

Received By: Date/Time: 7/8/13 11'5

Received @ Lab By: Date/Time:

Total Cost:

P.I.F.

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Stantec

For Lab Project ID

132505

Referencing

Ward St.

Prepared

Monday, September 09, 2013

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below:

The 8260 VOA LCS had low recovery(s) for the analyte Bromomethane. This was a result of degradation caused by sulfur dioxide in the client site samples. Bromomethane was verified as not present in the client samples by the use of a low reporting limit verification standard.

Certifies that this report has been approved by the Technical Director or Designee

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132505

Client: **Stantec**

Project Reference: Ward St.

Sample Identifier: Trip Blank
Lab Sample ID: 132505-01
Matrix: Water

Date/Time Sampled: 7/5/2013
Date Received: 7/5/2013

Volatile Organics

Analyte	Result	Units	Qualifier	Date/Time Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		7/18/2013 14:44
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		7/18/2013 14:44
1,1,2-Trichloroethane	< 2.00	ug/L		7/18/2013 14:44
1,1-Dichloroethane	< 2.00	ug/L		7/18/2013 14:44
1,1-Dichloroethene	< 2.00	ug/L		7/18/2013 14:44
1,2,3-Trichlorobenzene	< 5.00	ug/L		7/18/2013 14:44
1,2,4-Trichlorobenzene	< 5.00	ug/L		7/18/2013 14:44
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		7/18/2013 14:44
1,2-Dibromoethane	< 2.00	ug/L		7/18/2013 14:44
1,2-Dichlorobenzene	< 2.00	ug/L		7/18/2013 14:44
1,2-Dichloroethane	< 2.00	ug/L		7/18/2013 14:44
1,2-Dichloropropane	< 2.00	ug/L		7/18/2013 14:44
1,3-Dichlorobenzene	< 2.00	ug/L		7/18/2013 14:44
1,4-Dichlorobenzene	< 2.00	ug/L		7/18/2013 14:44
1,4-dioxane	< 20.0	ug/L		7/18/2013 14:44
2-Butanone	< 10.0	ug/L		7/18/2013 14:44
2-Hexanone	< 5.00	ug/L		7/18/2013 14:44
4-Methyl-2-pentanone	< 5.00	ug/L		7/18/2013 14:44
Acetone	< 10.0	ug/L		7/18/2013 14:44
Benzene	< 0.700	ug/L		7/18/2013 14:44
Bromochloromethane	< 5.00	ug/L		7/18/2013 14:44
Bromodichloromethane	< 2.00	ug/L		7/18/2013 14:44
Bromoform	< 5.00	ug/L		7/18/2013 14:44
Bromomethane	< 2.00	ug/L		7/18/2013 14:44
Carbon disulfide	< 2.00	ug/L		7/18/2013 14:44
Carbon Tetrachloride	< 2.00	ug/L		7/18/2013 14:44
Chlorobenzene	< 2.00	ug/L		7/18/2013 14:44
Chloroethane	< 2.00	ug/L		7/18/2013 14:44

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132505

Client: **Stantec**

Project Reference: Ward St.

Sample Identifier: Trip Blank
Lab Sample ID: 132505-01
Matrix: Water

Date/Time Sampled: 7/5/2013
Date Received: 7/5/2013

Chloroform	< 2.00	ug/L	7/18/2013 14:44
Chloromethane	< 2.00	ug/L	7/18/2013 14:44
cis-1,2-Dichloroethene	< 2.00	ug/L	7/18/2013 14:44
cis-1,3-Dichloropropene	< 2.00	ug/L	7/18/2013 14:44
Cyclohexane	< 10.0	ug/L	7/18/2013 14:44
Dibromochloromethane	< 2.00	ug/L	7/18/2013 14:44
Dichlorodifluoromethane	< 2.00	ug/L	7/18/2013 14:44
Ethylbenzene	< 2.00	ug/L	7/18/2013 14:44
Freon 113	< 2.00	ug/L	7/18/2013 14:44
Isopropylbenzene	< 2.00	ug/L	7/18/2013 14:44
m,p-Xylene	< 2.00	ug/L	7/18/2013 14:44
Methyl acetate	< 2.00	ug/L	7/18/2013 14:44
Methyl tert-butyl Ether	< 2.00	ug/L	7/18/2013 14:44
Methylcyclohexane	< 2.00	ug/L	7/18/2013 14:44
Methylene chloride	< 5.00	ug/L	7/18/2013 14:44
o-Xylene	< 2.00	ug/L	7/18/2013 14:44
Styrene	< 5.00	ug/L	7/18/2013 14:44
Tetrachloroethene	< 2.00	ug/L	7/18/2013 14:44
Toluene	< 2.00	ug/L	7/18/2013 14:44
trans-1,2-Dichloroethene	< 2.00	ug/L	7/18/2013 14:44
trans-1,3-Dichloropropene	< 2.00	ug/L	7/18/2013 14:44
Trichloroethene	< 2.00	ug/L	7/18/2013 14:44
Trichlorofluoromethane	< 2.00	ug/L	7/18/2013 14:44
Vinyl chloride	< 2.00	ug/L	7/18/2013 14:44

Method Reference(s): EPA 8260B
EPA 5030
Data File: x06937.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132505

Client: **Stantec**

Project Reference: Ward St.

Sample Identifier: 828-MW-23R-GW
Lab Sample ID: 132505-02
Matrix: Groundwater

Date/Time Sampled: 7/5/2013 9:35
Date Received: 7/5/2013

Metals

Analyte	Result	Units	Qualifier	Date/Time Analyzed
Sodium	**913**	mg/L		7/18/2013 12:20

Method Reference(s): EPA 6010C
EPA 3005
Data File: 071813b

Total Organic Carbon

Analyte	Result	Units	Qualifier	Date/Time Analyzed
Total Organic Carbon	**86.0**	mg/L		7/9/2013

Method Reference(s): SM 5310 C
Subcontractor ELAP ID: 10142

Volatile Organics

Analyte	Result	Units	Qualifier	Date/Time Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		7/18/2013 15:07
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		7/18/2013 15:07
1,1,2-Trichloroethane	< 2.00	ug/L		7/18/2013 15:07
1,1-Dichloroethane	< 2.00	ug/L		7/18/2013 15:07
1,1-Dichloroethene	< 2.00	ug/L		7/18/2013 15:07
1,2,3-Trichlorobenzene	< 5.00	ug/L		7/18/2013 15:07
1,2,4-Trichlorobenzene	< 5.00	ug/L		7/18/2013 15:07
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		7/18/2013 15:07
1,2-Dibromoethane	< 2.00	ug/L		7/18/2013 15:07
1,2-Dichlorobenzene	< 2.00	ug/L		7/18/2013 15:07
1,2-Dichloroethane	< 2.00	ug/L		7/18/2013 15:07
1,2-Dichloropropane	< 2.00	ug/L		7/18/2013 15:07
1,3-Dichlorobenzene	< 2.00	ug/L		7/18/2013 15:07
1,4-Dichlorobenzene	< 2.00	ug/L		7/18/2013 15:07
1,4-dioxane	< 20.0	ug/L		7/18/2013 15:07
2-Butanone	**76.9**	ug/L		7/18/2013 15:07
2-Hexanone	< 5.00	ug/L		7/18/2013 15:07
4-Methyl-2-pentanone	< 5.00	ug/L		7/18/2013 15:07

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132505

Client: **Stantec**

Project Reference: Ward St.

Sample Identifier: 828-MW-23R-GW
Lab Sample ID: 132505-02
Matrix: Groundwater

Date/Time Sampled: 7/5/2013 9:35
Date Received: 7/5/2013

Acetone	**11.1**	ug/L	7/18/2013 15:07
Benzene	< 0.700	ug/L	7/18/2013 15:07
Bromochloromethane	< 5.00	ug/L	7/18/2013 15:07
Bromodichloromethane	< 2.00	ug/L	7/18/2013 15:07
Bromoform	< 5.00	ug/L	7/18/2013 15:07
Bromomethane	< 2.00	ug/L	7/18/2013 15:07
Carbon disulfide	< 2.00	ug/L	7/18/2013 15:07
Carbon Tetrachloride	< 2.00	ug/L	7/18/2013 15:07
Chlorobenzene	< 2.00	ug/L	7/18/2013 15:07
Chloroethane	< 2.00	ug/L	7/18/2013 15:07
Chloroform	< 2.00	ug/L	7/18/2013 15:07
Chloromethane	< 2.00	ug/L	7/18/2013 15:07
cis-1,2-Dichloroethene	**4.81**	ug/L	7/18/2013 15:07
cis-1,3-Dichloropropene	< 2.00	ug/L	7/18/2013 15:07
Cyclohexane	< 10.0	ug/L	7/18/2013 15:07
Dibromochloromethane	< 2.00	ug/L	7/18/2013 15:07
Dichlorodifluoromethane	< 2.00	ug/L	7/18/2013 15:07
Ethylbenzene	< 2.00	ug/L	7/18/2013 15:07
Freon 113	< 2.00	ug/L	7/18/2013 15:07
Isopropylbenzene	< 2.00	ug/L	7/18/2013 15:07
m,p-Xylene	< 2.00	ug/L	7/18/2013 15:07
Methyl acetate	< 2.00	ug/L	7/18/2013 15:07
Methyl tert-butyl Ether	< 2.00	ug/L	7/18/2013 15:07
Methylcyclohexane	< 2.00	ug/L	7/18/2013 15:07
Methylene chloride	< 5.00	ug/L	7/18/2013 15:07
o-Xylene	< 2.00	ug/L	7/18/2013 15:07
Styrene	< 5.00	ug/L	7/18/2013 15:07
Tetrachloroethene	< 2.00	ug/L	7/18/2013 15:07
Toluene	< 2.00	ug/L	7/18/2013 15:07
trans-1,2-Dichloroethene	< 2.00	ug/L	7/18/2013 15:07

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132505

Client: **Stantec**

Project Reference: Ward St.

Sample Identifier: 828-MW-23R-GW
Lab Sample ID: 132505-02
Matrix: Groundwater

Date/Time Sampled: 7/5/2013 9:35
Date Received: 7/5/2013

trans-1,3-Dichloropropene	< 2.00	ug/L	7/18/2013	15:07
Trichloroethene	< 2.00	ug/L	7/18/2013	15:07
Trichlorofluoromethane	< 2.00	ug/L	7/18/2013	15:07
Vinyl chloride	< 2.00	ug/L	7/18/2013	15:07

Method Reference(s): EPA 8260B
EPA 5030
Data File: x06938.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132505

Client: **Stantec**

Project Reference: Ward St.

Sample Identifier: 828-MW-23-GW
Lab Sample ID: 132505-03
Matrix: Groundwater

Date/Time Sampled: 7/5/2013 10:30
Date Received: 7/5/2013

Metals

Analyte	Result	Units	Qualifier	Date/Time Analyzed
Sodium	**924**	mg/L		7/18/2013 12:24

Method Reference(s): EPA 6010C
EPA 3005
Data File: 071813b

Total Organic Carbon

Analyte	Result	Units	Qualifier	Date/Time Analyzed
Total Organic Carbon	**23.0**	mg/L		7/9/2013

Method Reference(s): SM 5310 C
Subcontractor ELAP ID: 10142

Volatile Organics

Analyte	Result	Units	Qualifier	Date/Time Analyzed
1,1,1-Trichloroethane	< 20.0	ug/L		7/19/2013 13:10
1,1,2,2-Tetrachloroethane	< 20.0	ug/L		7/19/2013 13:10
1,1,2-Trichloroethane	< 20.0	ug/L		7/19/2013 13:10
1,1-Dichloroethane	< 20.0	ug/L		7/19/2013 13:10
1,1-Dichloroethene	< 20.0	ug/L		7/19/2013 13:10
1,2,3-Trichlorobenzene	< 50.0	ug/L		7/19/2013 13:10
1,2,4-Trichlorobenzene	< 50.0	ug/L		7/19/2013 13:10
1,2-Dibromo-3-Chloropropane	< 100	ug/L		7/19/2013 13:10
1,2-Dibromoethane	< 20.0	ug/L		7/19/2013 13:10
1,2-Dichlorobenzene	< 20.0	ug/L		7/19/2013 13:10
1,2-Dichloroethane	< 20.0	ug/L		7/19/2013 13:10
1,2-Dichloropropane	< 20.0	ug/L		7/19/2013 13:10
1,3-Dichlorobenzene	< 20.0	ug/L		7/19/2013 13:10
1,4-Dichlorobenzene	< 20.0	ug/L		7/19/2013 13:10
1,4-dioxane	< 200	ug/L		7/19/2013 13:10
2-Butanone	< 100	ug/L		7/19/2013 13:10
2-Hexanone	< 50.0	ug/L		7/19/2013 13:10
4-Methyl-2-pentanone	< 50.0	ug/L		7/19/2013 13:10

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132505

Client: **Stantec**

Project Reference: Ward St.

Sample Identifier: 828-MW-23-GW
Lab Sample ID: 132505-03
Matrix: Groundwater

Date/Time Sampled: 7/5/2013 10:30
Date Received: 7/5/2013

Acetone	< 100	ug/L	7/19/2013 13:10
Benzene	< 7.00	ug/L	7/19/2013 13:10
Bromochloromethane	< 50.0	ug/L	7/19/2013 13:10
Bromodichloromethane	< 20.0	ug/L	7/19/2013 13:10
Bromoform	< 50.0	ug/L	7/19/2013 13:10
Bromomethane	< 20.0	ug/L	7/19/2013 13:10
Carbon disulfide	< 20.0	ug/L	7/19/2013 13:10
Carbon Tetrachloride	< 20.0	ug/L	7/19/2013 13:10
Chlorobenzene	< 20.0	ug/L	7/19/2013 13:10
Chloroethane	< 20.0	ug/L	7/19/2013 13:10
Chloroform	< 20.0	ug/L	7/19/2013 13:10
Chloromethane	< 20.0	ug/L	7/19/2013 13:10
cis-1,2-Dichloroethene	**862**	ug/L	7/19/2013 13:10
cis-1,3-Dichloropropene	< 20.0	ug/L	7/19/2013 13:10
Cyclohexane	< 100	ug/L	7/19/2013 13:10
Dibromochloromethane	< 20.0	ug/L	7/19/2013 13:10
Dichlorodifluoromethane	< 20.0	ug/L	7/19/2013 13:10
Ethylbenzene	< 20.0	ug/L	7/19/2013 13:10
Freon 113	< 20.0	ug/L	7/19/2013 13:10
Isopropylbenzene	< 20.0	ug/L	7/19/2013 13:10
m,p-Xylene	< 20.0	ug/L	7/19/2013 13:10
Methyl acetate	< 20.0	ug/L	7/19/2013 13:10
Methyl tert-butyl Ether	< 20.0	ug/L	7/19/2013 13:10
Methylcyclohexane	< 20.0	ug/L	7/19/2013 13:10
Methylene chloride	< 50.0	ug/L	7/19/2013 13:10
o-Xylene	< 20.0	ug/L	7/19/2013 13:10
Styrene	< 50.0	ug/L	7/19/2013 13:10
Tetrachloroethene	< 20.0	ug/L	7/19/2013 13:10
Toluene	< 20.0	ug/L	7/19/2013 13:10
trans-1,2-Dichloroethene	< 20.0	ug/L	7/19/2013 13:10

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132505

Client: **Stantec**

Project Reference: Ward St.

Sample Identifier: 828-MW-23-GW
Lab Sample ID: 132505-03
Matrix: Groundwater

Date/Time Sampled: 7/5/2013 10:30
Date Received: 7/5/2013

trans-1,3-Dichloropropene	< 20.0	ug/L	7/19/2013	13:10
Trichloroethene	< 20.0	ug/L	7/19/2013	13:10
Trichlorofluoromethane	< 20.0	ug/L	7/19/2013	13:10
Vinyl chloride	**636**	ug/L	7/19/2013	13:10

Method Reference(s): EPA 8260B
EPA 5030
Data File: x06970.D

This report is part of a multipage document and should only be evaluated in its entirety. The Chain of Custody provides additional sample information, including compliance with the sample condition requirements upon receipt.

Report Prepared Monday, September 09, 2013

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132505

Client: **Stantec**

Project Reference: Ward St.

Sample Identifier: WSR-MW-207R-GW
Lab Sample ID: 132505-04
Matrix: Groundwater

Date/Time Sampled: 7/5/2013 12:40
Date Received: 7/5/2013

Metals

Analyte	Result	Units	Qualifier	Date/Time Analyzed
Sodium	**485**	mg/L		7/18/2013 12:29

Method Reference(s): EPA 6010C
EPA 3005
Data File: 071813b

Total Organic Carbon

Analyte	Result	Units	Qualifier	Date/Time Analyzed
Total Organic Carbon	**28.0**	mg/L		7/9/2013

Method Reference(s): SM 5310 C
Subcontractor ELAP ID: 10142

Volatile Organics

Analyte	Result	Units	Qualifier	Date/Time Analyzed
1,1,1-Trichloroethane	< 40.0	ug/L		7/19/2013 13:33
1,1,2,2-Tetrachloroethane	< 40.0	ug/L		7/19/2013 13:33
1,1,2-Trichloroethane	< 40.0	ug/L		7/19/2013 13:33
1,1-Dichloroethane	< 40.0	ug/L		7/19/2013 13:33
1,1-Dichloroethene	< 40.0	ug/L		7/19/2013 13:33
1,2,3-Trichlorobenzene	< 100	ug/L		7/19/2013 13:33
1,2,4-Trichlorobenzene	< 100	ug/L		7/19/2013 13:33
1,2-Dibromo-3-Chloropropane	< 200	ug/L		7/19/2013 13:33
1,2-Dibromoethane	< 40.0	ug/L		7/19/2013 13:33
1,2-Dichlorobenzene	< 40.0	ug/L		7/19/2013 13:33
1,2-Dichloroethane	< 40.0	ug/L		7/19/2013 13:33
1,2-Dichloropropane	< 40.0	ug/L		7/19/2013 13:33
1,3-Dichlorobenzene	< 40.0	ug/L		7/19/2013 13:33
1,4-Dichlorobenzene	< 40.0	ug/L		7/19/2013 13:33
1,4-dioxane	< 400	ug/L		7/19/2013 13:33
2-Butanone	< 200	ug/L		7/19/2013 13:33
2-Hexanone	< 100	ug/L		7/19/2013 13:33
4-Methyl-2-pentanone	< 100	ug/L		7/19/2013 13:33

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132505

Client: **Stantec**

Project Reference: Ward St.

Sample Identifier: WSR-MW-207R-GW
Lab Sample ID: 132505-04
Matrix: Groundwater

Date/Time Sampled: 7/5/2013 12:40
Date Received: 7/5/2013

Acetone	< 200	ug/L	7/19/2013 13:33
Benzene	< 14.0	ug/L	7/19/2013 13:33
Bromochloromethane	< 100	ug/L	7/19/2013 13:33
Bromodichloromethane	< 40.0	ug/L	7/19/2013 13:33
Bromoform	< 100	ug/L	7/19/2013 13:33
Bromomethane	< 40.0	ug/L	7/19/2013 13:33
Carbon disulfide	< 40.0	ug/L	7/19/2013 13:33
Carbon Tetrachloride	< 40.0	ug/L	7/19/2013 13:33
Chlorobenzene	< 40.0	ug/L	7/19/2013 13:33
Chloroethane	< 40.0	ug/L	7/19/2013 13:33
Chloroform	< 40.0	ug/L	7/19/2013 13:33
Chloromethane	< 40.0	ug/L	7/19/2013 13:33
cis-1,2-Dichloroethene	**193**	ug/L	7/19/2013 13:33
cis-1,3-Dichloropropene	< 40.0	ug/L	7/19/2013 13:33
Cyclohexane	< 200	ug/L	7/19/2013 13:33
Dibromochloromethane	< 40.0	ug/L	7/19/2013 13:33
Dichlorodifluoromethane	< 40.0	ug/L	7/19/2013 13:33
Ethylbenzene	< 40.0	ug/L	7/19/2013 13:33
Freon 113	< 40.0	ug/L	7/19/2013 13:33
Isopropylbenzene	< 40.0	ug/L	7/19/2013 13:33
m,p-Xylene	< 40.0	ug/L	7/19/2013 13:33
Methyl acetate	< 40.0	ug/L	7/19/2013 13:33
Methyl tert-butyl Ether	< 40.0	ug/L	7/19/2013 13:33
Methylcyclohexane	< 40.0	ug/L	7/19/2013 13:33
Methylene chloride	< 100	ug/L	7/19/2013 13:33
o-Xylene	< 40.0	ug/L	7/19/2013 13:33
Styrene	< 100	ug/L	7/19/2013 13:33
Tetrachloroethene	< 40.0	ug/L	7/19/2013 13:33
Toluene	< 40.0	ug/L	7/19/2013 13:33
trans-1,2-Dichloroethene	< 40.0	ug/L	7/19/2013 13:33

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132505

Client: **Stantec**

Project Reference: Ward St.

Sample Identifier: WSR-MW-207R-GW
Lab Sample ID: 132505-04
Matrix: Groundwater

Date/Time Sampled: 7/5/2013 12:40
Date Received: 7/5/2013

trans-1,3-Dichloropropene	< 40.0	ug/L	7/19/2013	13:33
Trichloroethene	< 40.0	ug/L	7/19/2013	13:33
Trichlorofluoromethane	< 40.0	ug/L	7/19/2013	13:33
Vinyl chloride	**1850**	ug/L	7/19/2013	13:33

Method Reference(s): EPA 8260B
EPA 5030
Data File: x06971.D

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132505

Client: **Stantec**

Project Reference: Ward St.

Sample Identifier: WSR-MW-212R-GW
Lab Sample ID: 132505-05
Matrix: Groundwater

Date/Time Sampled: 7/5/2013 14:20
Date Received: 7/5/2013

Metals

Analyte	Result	Units	Qualifier	Date/Time Analyzed
Sodium	**444**	mg/L		7/18/2013 12:33

Method Reference(s): EPA 6010C
EPA 3005
Data File: 071813b

Total Organic Carbon

Analyte	Result	Units	Qualifier	Date/Time Analyzed
Total Organic Carbon	**22.0**	mg/L		7/9/2013

Method Reference(s): SM 5310 C
Subcontractor ELAP ID: 10142

Volatile Organics

Analyte	Result	Units	Qualifier	Date/Time Analyzed
1,1,1-Trichloroethane	< 10.0	ug/L		7/18/2013 16:16
1,1,2,2-Tetrachloroethane	< 10.0	ug/L		7/18/2013 16:16
1,1,2-Trichloroethane	< 10.0	ug/L		7/18/2013 16:16
1,1-Dichloroethane	< 10.0	ug/L		7/18/2013 16:16
1,1-Dichloroethene	< 10.0	ug/L		7/18/2013 16:16
1,2,3-Trichlorobenzene	< 25.0	ug/L		7/18/2013 16:16
1,2,4-Trichlorobenzene	< 25.0	ug/L		7/18/2013 16:16
1,2-Dibromo-3-Chloropropane	< 50.0	ug/L		7/18/2013 16:16
1,2-Dibromoethane	< 10.0	ug/L		7/18/2013 16:16
1,2-Dichlorobenzene	< 10.0	ug/L		7/18/2013 16:16
1,2-Dichloroethane	< 10.0	ug/L		7/18/2013 16:16
1,2-Dichloropropane	< 10.0	ug/L		7/18/2013 16:16
1,3-Dichlorobenzene	< 10.0	ug/L		7/18/2013 16:16
1,4-Dichlorobenzene	< 10.0	ug/L		7/18/2013 16:16
1,4-dioxane	< 100	ug/L		7/18/2013 16:16
2-Butanone	< 50.0	ug/L		7/18/2013 16:16
2-Hexanone	< 25.0	ug/L		7/18/2013 16:16
4-Methyl-2-pentanone	< 25.0	ug/L		7/18/2013 16:16

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132505

Client: **Stantec**

Project Reference: Ward St.

Sample Identifier: WSR-MW-212R-GW
Lab Sample ID: 132505-05
Matrix: Groundwater

Date/Time Sampled: 7/5/2013 14:20
Date Received: 7/5/2013

Acetone	< 50.0	ug/L	7/18/2013 16:16
Benzene	< 3.50	ug/L	7/18/2013 16:16
Bromochloromethane	< 25.0	ug/L	7/18/2013 16:16
Bromodichloromethane	< 10.0	ug/L	7/18/2013 16:16
Bromoform	< 25.0	ug/L	7/18/2013 16:16
Bromomethane	< 10.0	ug/L	7/18/2013 16:16
Carbon disulfide	< 10.0	ug/L	7/18/2013 16:16
Carbon Tetrachloride	< 10.0	ug/L	7/18/2013 16:16
Chlorobenzene	< 10.0	ug/L	7/18/2013 16:16
Chloroethane	< 10.0	ug/L	7/18/2013 16:16
Chloroform	< 10.0	ug/L	7/18/2013 16:16
Chloromethane	< 10.0	ug/L	7/18/2013 16:16
cis-1,2-Dichloroethene	**11.5**	ug/L	7/18/2013 16:16
cis-1,3-Dichloropropene	< 10.0	ug/L	7/18/2013 16:16
Cyclohexane	< 50.0	ug/L	7/18/2013 16:16
Dibromochloromethane	< 10.0	ug/L	7/18/2013 16:16
Dichlorodifluoromethane	< 10.0	ug/L	7/18/2013 16:16
Ethylbenzene	< 10.0	ug/L	7/18/2013 16:16
Freon 113	< 10.0	ug/L	7/18/2013 16:16
Isopropylbenzene	< 10.0	ug/L	7/18/2013 16:16
m,p-Xylene	< 10.0	ug/L	7/18/2013 16:16
Methyl acetate	< 10.0	ug/L	7/18/2013 16:16
Methyl tert-butyl Ether	< 10.0	ug/L	7/18/2013 16:16
Methylcyclohexane	< 10.0	ug/L	7/18/2013 16:16
Methylene chloride	< 25.0	ug/L	7/18/2013 16:16
o-Xylene	< 10.0	ug/L	7/18/2013 16:16
Styrene	< 25.0	ug/L	7/18/2013 16:16
Tetrachloroethene	< 10.0	ug/L	7/18/2013 16:16
Toluene	< 10.0	ug/L	7/18/2013 16:16
trans-1,2-Dichloroethene	**23.5**	ug/L	7/18/2013 16:16

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 132505

Client: **Stantec**

Project Reference: Ward St.

Sample Identifier: WSR-MW-212R-GW
Lab Sample ID: 132505-05
Matrix: Groundwater

Date/Time Sampled: 7/5/2013 14:20
Date Received: 7/5/2013

trans-1,3-Dichloropropene	< 10.0	ug/L	7/18/2013	16:16
Trichloroethene	< 10.0	ug/L	7/18/2013	16:16
Trichlorofluoromethane	< 10.0	ug/L	7/18/2013	16:16
Vinyl chloride	**127**	ug/L	7/18/2013	16:16

Method Reference(s): EPA 8260B
EPA 5030
Data File: x06941.D

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: **Stantec**

Project Reference: Ward St.

Lab Project ID: 132505

Matrix: Groundwater

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Sodium	<1.25	mg/L		7/18/2013

Method Reference(s): EPA 6010C
EPA 3005

Data File: 071813b

QC Batch ID: QC130716waters

QC Number: 1

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample and Control Sample Duplicate

Client: **Stantec**

Project Reference: Ward St.

Lab Project ID: 132505

Matrix: Wastewater

Metals

Analyte	LCS Added	LCSD Added	Spike Units	LCS Result	LCSD Result	LCS % Recovery	LCSD % Recovery	% Rec Limits	LCS Outliers	LCSD Outliers	Relative % Difference	RPD Limit	RPD Outliers	Date Analyzed
Sodium	12.0	12.0	mg/L	12.3	12.3	102	103	85 - 115			0.333	20		7/18/2013

Method Reference(s): EPA 6010C
EPA 3005

Data File: 071813b

QC Number: 1

QC Batch ID: QC130716waters

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: **Stantec**
Project Reference: Ward St.
Lab Project ID: 132505
Matrix: Water

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	<2.00	ug/L		7/18/2013
1,1,2,2-Tetrachloroethane	<2.00	ug/L		7/18/2013
1,1,2-Trichloroethane	<2.00	ug/L		7/18/2013
1,1-Dichloroethane	<2.00	ug/L		7/18/2013
1,1-Dichloroethene	<2.00	ug/L		7/18/2013
1,2,3-Trichlorobenzene	<5.00	ug/L		7/18/2013
1,2,4-Trichlorobenzene	<5.00	ug/L		7/18/2013
1,2-Dibromo-3-Chloropropane	<10.0	ug/L		7/18/2013
1,2-Dibromoethane	<2.00	ug/L		7/18/2013
1,2-Dichlorobenzene	<2.00	ug/L		7/18/2013
1,2-Dichloroethane	<2.00	ug/L		7/18/2013
1,2-Dichloropropane	<2.00	ug/L		7/18/2013
1,3-Dichlorobenzene	<2.00	ug/L		7/18/2013
1,4-Dichlorobenzene	<2.00	ug/L		7/18/2013
1,4-dioxane	<20.0	ug/L		7/18/2013
2-Butanone	<10.0	ug/L		7/18/2013
2-Hexanone	<5.00	ug/L		7/18/2013
4-Methyl-2-pentanone	<5.00	ug/L		7/18/2013
Acetone	<10.0	ug/L		7/18/2013
Benzene	<0.700	ug/L		7/18/2013
Bromochloromethane	<5.00	ug/L		7/18/2013
Bromodichloromethane	<2.00	ug/L		7/18/2013
Bromoform	<5.00	ug/L		7/18/2013
Bromomethane	<2.00	ug/L		7/18/2013
Carbon disulfide	<2.00	ug/L		7/18/2013
Carbon Tetrachloride	<2.00	ug/L		7/18/2013
Chlorobenzene	<2.00	ug/L		7/18/2013
Chloroethane	<2.00	ug/L		7/18/2013

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: **Stantec**
Project Reference: Ward St.
Lab Project ID: 132505
Matrix: Water

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
Chloroform	<2.00	ug/L		7/18/2013
Chloromethane	<2.00	ug/L		7/18/2013
cis-1,2-Dichloroethene	<2.00	ug/L		7/18/2013
cis-1,3-Dichloropropene	<2.00	ug/L		7/18/2013
Cyclohexane	<10.0	ug/L		7/18/2013
Dibromochloromethane	<2.00	ug/L		7/18/2013
Dichlorodifluoromethane	<2.00	ug/L		7/18/2013
Ethylbenzene	<2.00	ug/L		7/18/2013
Freon 113	<2.00	ug/L		7/18/2013
Isopropylbenzene	<2.00	ug/L		7/18/2013
m,p-Xylene	<2.00	ug/L		7/18/2013
Methyl acetate	<2.00	ug/L		7/18/2013
Methyl tert-butyl Ether	<2.00	ug/L		7/18/2013
Methylcyclohexane	<2.00	ug/L		7/18/2013
Methylene chloride	<5.00	ug/L		7/18/2013
o-Xylene	<2.00	ug/L		7/18/2013
Styrene	<5.00	ug/L		7/18/2013
Tetrachloroethene	<2.00	ug/L		7/18/2013
Toluene	<2.00	ug/L		7/18/2013
trans-1,2-Dichloroethene	<2.00	ug/L		7/18/2013
trans-1,3-Dichloropropene	<2.00	ug/L		7/18/2013
Trichloroethene	<2.00	ug/L		7/18/2013
Trichlorofluoromethane	<2.00	ug/L		7/18/2013
Vinyl chloride	<2.00	ug/L		7/18/2013

Method Reference(s): EPA 8260B
EPA 5030
Data File: x06933.D
QC Batch ID: voaw071813
QC Number: 1

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: **Stantec**
Project Reference: Ward St.
Lab Project ID: 132505
Matrix: Water

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
1,1,1-Trichloroethane	50.0	ug/L	47.5	95.0	84.7 - 113		7/18/2013
1,1,2,2-Tetrachloroethane	50.0	ug/L	48.2	96.4	85.9 - 114		7/18/2013
1,1,2-Trichloroethane	50.0	ug/L	44.8	89.7	81.1 - 105		7/18/2013
1,1-Dichloroethane	50.0	ug/L	46.0	91.9	81.2 - 109		7/18/2013
1,1-Dichloroethene	50.0	ug/L	47.8	95.6	82.1 - 110		7/18/2013
1,2-Dichlorobenzene	50.0	ug/L	44.4	88.8	83.9 - 106		7/18/2013
1,2-Dichloroethane	50.0	ug/L	45.8	91.6	77.7 - 115		7/18/2013
1,2-Dichloropropane	50.0	ug/L	44.3	88.6	81.6 - 107		7/18/2013
1,3-Dichlorobenzene	50.0	ug/L	44.7	89.4	82.9 - 104		7/18/2013
1,4-Dichlorobenzene	50.0	ug/L	43.5	87.1	81.3 - 103		7/18/2013
Benzene	50.0	ug/L	45.0	90.0	84.1 - 105		7/18/2013
Bromodichloromethane	50.0	ug/L	48.8	97.5	84 - 113		7/18/2013
Bromoform	50.0	ug/L	51.4	103	85.5 - 114		7/18/2013
Bromomethane	50.0	ug/L	33.0	66.0	75.3 - 135	*	7/18/2013

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: **Stantec**
Project Reference: Ward St.
Lab Project ID: 132505
Matrix: Water

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
Carbon Tetrachloride	50.0	ug/L	49.2	98.5	83.9 - 118		7/18/2013
Chlorobenzene	50.0	ug/L	44.5	89.0	83.7 - 103		7/18/2013
Chloroethane	50.0	ug/L	52.5	105	83.6 - 115		7/18/2013
Chloroform	50.0	ug/L	45.3	90.6	81.7 - 108		7/18/2013
Chloromethane	50.0	ug/L	55.9	112	70.7 - 130		7/18/2013
cis-1,3-Dichloropropene	50.0	ug/L	50.3	101	91.2 - 111		7/18/2013
Dibromochloromethane	50.0	ug/L	50.9	102	83.7 - 119		7/18/2013
Ethylbenzene	50.0	ug/L	46.2	92.4	86 - 107		7/18/2013
Methylene chloride	50.0	ug/L	46.1	92.3	84 - 118		7/18/2013
Tetrachloroethene	50.0	ug/L	44.4	88.7	84.4 - 108		7/18/2013
Toluene	50.0	ug/L	44.9	89.8	85.9 - 102		7/18/2013
trans-1,2-Dichloroethene	50.0	ug/L	46.7	93.5	82.3 - 108		7/18/2013
trans-1,3-Dichloropropene	50.0	ug/L	49.7	99.5	86.9 - 110		7/18/2013
Trichloroethene	50.0	ug/L	45.5	91.0	86.1 - 104		7/18/2013

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: **Stantec**

Project Reference: Ward St.

Lab Project ID: 132505

Matrix: Water

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
Trichlorofluoromethane	50.0	ug/L	53.0	106	78.8 - 122		7/18/2013
Vinyl chloride	50.0	ug/L	55.6	111	74.9 - 130		7/18/2013

Method Reference(s): EPA 8260B
EPA 5030
Data File: x06931.D
QC Number: 1
QC Batch ID: voaw071813

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: **Stantec**
Project Reference: Ward St.
Lab Project ID: 132505
Matrix: Groundwater

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	<2.00	ug/L		7/19/2013
1,1,2,2-Tetrachloroethane	<2.00	ug/L		7/19/2013
1,1,2-Trichloroethane	<2.00	ug/L		7/19/2013
1,1-Dichloroethane	<2.00	ug/L		7/19/2013
1,1-Dichloroethene	<2.00	ug/L		7/19/2013
1,2,3-Trichlorobenzene	<5.00	ug/L		7/19/2013
1,2,4-Trichlorobenzene	<5.00	ug/L		7/19/2013
1,2-Dibromo-3-Chloropropane	<10.0	ug/L		7/19/2013
1,2-Dibromoethane	<2.00	ug/L		7/19/2013
1,2-Dichlorobenzene	<2.00	ug/L		7/19/2013
1,2-Dichloroethane	<2.00	ug/L		7/19/2013
1,2-Dichloropropane	<2.00	ug/L		7/19/2013
1,3-Dichlorobenzene	<2.00	ug/L		7/19/2013
1,4-Dichlorobenzene	<2.00	ug/L		7/19/2013
1,4-dioxane	<20.0	ug/L		7/19/2013
2-Butanone	<10.0	ug/L		7/19/2013
2-Hexanone	<5.00	ug/L		7/19/2013
4-Methyl-2-pentanone	<5.00	ug/L		7/19/2013
Acetone	<10.0	ug/L		7/19/2013
Benzene	<0.700	ug/L		7/19/2013
Bromochloromethane	<5.00	ug/L		7/19/2013
Bromodichloromethane	<2.00	ug/L		7/19/2013
Bromoform	<5.00	ug/L		7/19/2013
Bromomethane	<2.00	ug/L		7/19/2013
Carbon disulfide	<2.00	ug/L		7/19/2013
Carbon Tetrachloride	<2.00	ug/L		7/19/2013
Chlorobenzene	<2.00	ug/L		7/19/2013
Chloroethane	<2.00	ug/L		7/19/2013

PARADIGM
ENVIRONMENTAL SERVICES, INC.

Method Blank Report

Client: **Stantec**
Project Reference: Ward St.
Lab Project ID: 132505
Matrix: Groundwater

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
Chloroform	<2.00	ug/L		7/19/2013
Chloromethane	<2.00	ug/L		7/19/2013
cis-1,2-Dichloroethene	<2.00	ug/L		7/19/2013
cis-1,3-Dichloropropene	<2.00	ug/L		7/19/2013
Cyclohexane	<10.0	ug/L		7/19/2013
Dibromochloromethane	<2.00	ug/L		7/19/2013
Dichlorodifluoromethane	<2.00	ug/L		7/19/2013
Ethylbenzene	<2.00	ug/L		7/19/2013
Freon 113	<2.00	ug/L		7/19/2013
Isopropylbenzene	<2.00	ug/L		7/19/2013
m,p-Xylene	<2.00	ug/L		7/19/2013
Methyl acetate	<2.00	ug/L		7/19/2013
Methyl tert-butyl Ether	<2.00	ug/L		7/19/2013
Methylcyclohexane	<2.00	ug/L		7/19/2013
Methylene chloride	<5.00	ug/L		7/19/2013
o-Xylene	<2.00	ug/L		7/19/2013
Styrene	<5.00	ug/L		7/19/2013
Tetrachloroethene	<2.00	ug/L		7/19/2013
Toluene	<2.00	ug/L		7/19/2013
trans-1,2-Dichloroethene	<2.00	ug/L		7/19/2013
trans-1,3-Dichloropropene	<2.00	ug/L		7/19/2013
Trichloroethene	<2.00	ug/L		7/19/2013
Trichlorofluoromethane	<2.00	ug/L		7/19/2013
Vinyl chloride	<2.00	ug/L		7/19/2013

Method Reference(s): EPA 8260B
EPA 5030
Data File: x06969.D
QC Batch ID: voaq071913
QC Number: 1

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: **Stantec**
Project Reference: Ward St.
Lab Project ID: 132505
Matrix: Groundwater

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
1,1,1-Trichloroethane	50.0	ug/L	46.6	93.3	84.7 - 113		7/19/2013
1,1,2,2-Tetrachloroethane	50.0	ug/L	50.2	100	85.9 - 114		7/19/2013
1,1,2-Trichloroethane	50.0	ug/L	47.8	95.5	81.1 - 105		7/19/2013
1,1-Dichloroethane	50.0	ug/L	46.3	92.5	81.2 - 109		7/19/2013
1,1-Dichloroethene	50.0	ug/L	47.6	95.2	82.1 - 110		7/19/2013
1,2-Dichlorobenzene	50.0	ug/L	47.0	93.9	83.9 - 106		7/19/2013
1,2-Dichloroethane	50.0	ug/L	44.1	88.2	77.7 - 115		7/19/2013
1,2-Dichloropropane	50.0	ug/L	45.8	91.6	81.6 - 107		7/19/2013
1,3-Dichlorobenzene	50.0	ug/L	47.7	95.4	82.9 - 104		7/19/2013
1,4-Dichlorobenzene	50.0	ug/L	45.6	91.2	81.3 - 103		7/19/2013
Benzene	50.0	ug/L	47.8	95.7	84.1 - 105		7/19/2013
Bromodichloromethane	50.0	ug/L	48.6	97.2	84 - 113		7/19/2013
Bromoform	50.0	ug/L	53.7	107	85.5 - 114		7/19/2013
Bromomethane	50.0	ug/L	38.8	77.7	75.3 - 135		7/19/2013

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: **Stantec**
Project Reference: Ward St.
Lab Project ID: 132505
Matrix: Groundwater

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
Carbon Tetrachloride	50.0	ug/L	47.7	95.5	83.9 - 118		7/19/2013
Chlorobenzene	50.0	ug/L	46.4	92.8	83.7 - 103		7/19/2013
Chloroethane	50.0	ug/L	52.3	105	83.6 - 115		7/19/2013
Chloroform	50.0	ug/L	45.0	89.9	81.7 - 108		7/19/2013
Chloromethane	50.0	ug/L	59.0	118	70.7 - 130		7/19/2013
cis-1,3-Dichloropropene	50.0	ug/L	51.7	103	91.2 - 111		7/19/2013
Dibromochloromethane	50.0	ug/L	54.2	108	83.7 - 119		7/19/2013
Ethylbenzene	50.0	ug/L	48.0	95.9	86 - 107		7/19/2013
Methylene chloride	50.0	ug/L	46.7	93.4	84 - 118		7/19/2013
Tetrachloroethene	50.0	ug/L	48.3	96.6	84.4 - 108		7/19/2013
Toluene	50.0	ug/L	48.5	97.0	85.9 - 102		7/19/2013
trans-1,2-Dichloroethene	50.0	ug/L	46.8	93.7	82.3 - 108		7/19/2013
trans-1,3-Dichloropropene	50.0	ug/L	51.8	104	86.9 - 110		7/19/2013
Trichloroethene	50.0	ug/L	48.9	97.7	86.1 - 104		7/19/2013

PARADIGM
ENVIRONMENTAL SERVICES, INC.

QC Report for Laboratory Control Sample

Client: **Stantec**

Project Reference: Ward St.

Lab Project ID: 132505

Matrix: Groundwater

Volatile Organics

Analyte	Spike Added	Spike Units	LCS Result	LCS % Recovery	% Rec Limits	LCS Outliers	Date Analyzed
Trichlorofluoromethane	50.0	ug/L	49.3	98.5	78.8 - 122		7/19/2013
Vinyl chloride	50.0	ug/L	56.0	112	74.9 - 130		7/19/2013

Method Reference(s): EPA 8260B
EPA 5030
Data File: x06967.D
QC Number: 1
QC Batch ID: voaq071913

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"V" = Sample concentration is >10 times the spike. No meaningful Spike Recovery can be calculated.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"C" = Concentration differs by more than 40% between the primary and secondary analytical columns.

1 of 2

PARADIGM ENVIRONMENTAL SERVICES, INC.
179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

REPORT TO:	INVOICE TO:	LAB PROJECT ID
CLIENT: Stantec	CLIENT: Germanow-Simon	132505
ADDRESS: 61 Commercial	ADDRESS: 408 St. Paul Street	Quotation #:
CITY: Rochester STATE: NY ZIP: 14614	CITY: Rochester STATE: NY ZIP:	Email:
PHONE: 585-413-5266	PHONE: 585-732-0202	
ATTN: Mike Storonsky	ATTN: John Dole	

PROJECT REFERENCE
Ward St.

Matrix Codes:
AQ - Aqueous Liquid; NQ - Non-Aqueous Liquid; WA - Water; WG - Groundwater; DW - Drinking Water; WW - Wastewater; SO - Soil; SL - Sludge; SD - Solid; PT - Paint; WP - Wipe; CK - Caulk; OL - Oil; AR - Air

(per labels EAH 7/8/15)

REQUESTED ANALYSIS

	DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	8260 TCL VOCs	TOC (SM 5310)	Total Fe (6010/B)	REMARKS	PARADIGM LAB SAMPLE NUMBER
1	7/5/13	0800		X	Trip Blank	WA	1	X				01
2	7/5/13	0935		X	828-MW-23R-GW	WG	4	X	X	X		02
3	7/5/13	1030		X	828-MW-23-GW	WG	4	X	X	X		03
4	7/5/13	1240		X	WSR-MW-207R-GW	WG	4	X	X	X		04
5	7/5/13	1420		X	WSR-MW-212R-GW	WG	4	X	X	X		05
6												
7												
8												
9												
10												

6°C iced

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☐	Batch QC	☒	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☐
Rush 2 day	☐	Category B	☐		
Rush 1 day	☐				
Other please indicate: 10 day	☒	Other please indicate:	☐	Other EDD please indicate: EQuIS EDD	☒

(Both 4 file EIMEDD & NYSDEC format)

K. Premo / A. Glose	7/5/13 1500	
Sampled By	Date/Time	Total Cost:
[signature]	7/5/13 1500	
Relinquished By	Date/Time	
[signature]	7/5/13 3:00pm	
Received By	Date/Time	P.I.F.
[signature]	7/5/13 1523	
Received @ Lab By	Date/Time	

PARADIGM

Chain of Custody Supplement

Stantec

Client: Stantec eem 7/5/13 **Completed by:** MVan

Lab Project ID: ~~132~~ 132505 eem 7/5/13 **Date:** 7/5/13

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)	X		
Comments			
Preservation	X		
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X 6°C iced		X metals
Comments			
Sufficient Sample Quantity	X		
Comments			

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

1661

CHAIN OF CUSTODY 67823-1

ENVIROTEST: ELAP ID: 10142

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:			
COMPANY:	Paradigm Environmental	COMPANY:	Same	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS:		ADDRESS:			
CITY: STATE: ZIP:		CITY: STATE: ZIP:		TURNAROUND TIME: (WORKING DAYS)	
PHONE: FAX:		PHONE: FAX:			STD OTHER
PROJECT NAME/SITE NAME:		ATTN:	Kate Hansen	ATTN:	Meridith Dillman	☐1 ☐2 ☐3 ☒5 ☐
		COMMENTS:	Please email results to khansen@paradigmenv.com and jdaloia@paradigmenv.com	Date Due: 7/16	

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER CONTAINERS	TOC (Sm5310)									REMARKS	PARADIGM LAB SAMPLE NUMBER				
1	7/5/13	0935 composite			132565-02	GW	1	X														
2	"	0910 1030			-03	"	"	"														
3	"	1240			-04	"	"	"														
4	"	1420			-05	"	"	"														
5																						
6																						
7																						
8																						
9																						
10																						

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance	
Container Type:	Y ☒	N ☐
Comments:		
Preservation:	Y ☒	N ☐
Comments:		
Holding Time:	Y ☒	N ☐
Comments:		
Temperature: 16.4 C	Y ☒	N ☒ 72
Comments:		

Client

Sampled By: [signature] Date/Time: 7/8/13 1600

Relinquished By: Date/Time:

Received By: [signature] Date/Time: 7/9/13 1100

Received @ Lab By: Date/Time: ups

Total Cost:

P.I.F.

09/15/2013

Appendix B

61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Stantec

Monitoring Well Purging and Sampling Record

Site Name: Ward Street

Well ID: MW-16

Initial Depth to Water: 9.20 ft TOIC w/ tubing 9.73

Date: 7/3/13

Total Well Depth: 21.03 ft TOIC

Purge Start Time: 1325

Depth to Pump: ~18 ft TOIC

Purge End Time: 1440

Initial Pump Rate: 100 mL/min

Pump Type: Peristaltic

adjusted to: 100 mL/min at 1337 minutes

Well Diameter: 2 inches

adjusted to: _____ L/min at _____ minutes

Well Volume: 1.9 gallons

Time	Purge Volume (gallons)	pH (s.u.)	ORP (mV)	Conductivity (mS/cm)	Temp. (°C)	DO (mg/L)	Turbidity (NTU)	Water Level (ft)
1325	0.0	7.20	-220.3	9.62	18.9	0.42	14.0	9.56
1332	0.2	7.14	-232.7	10.37	18.5	0.49	22.6	4.83
1337	0.3	7.14	-226.8	9.84	18.5	1.14	22.9	9.92
1342	0.4	7.13	-222.4	9.78	18.2	1.83	7.51	10.11
1347	0.5	7.12	-215.8	9.62	18.0	0.74	4.27	10.29
1352	0.7	7.12	-213.0	9.63	18.6	0.32	8.32	10.4
1357	0.9	7.12	-218.4	9.65	18.2	0.27	7.23	10.51
1402	1.0	7.12	-215.0	9.58	18.5	0.23	7.97	10.65
1407	1.1	7.12	-214.1	9.64	18.5	0.21	6.71	10.76
1412	1.2	7.12	-209.4	9.66	18.5	0.19	9.51	10.89
1417	1.3	7.13	-207.6	9.73	18.1	0.19	8.59	11.00
Final Sample Data:		7.13	-207.6	9.73	18.1	0.19	8.59	11.00

Sample ID(s): WSR-MW-16-GW

Sample Time: 1430

Analyses:
- ☑ TCL VOCs
- ☑ TOC
- ☑ Total Na

Dup? ☐

Sampler(s): K. Premo, A. Giose

Comments: @ 1325 Clear w/ Black precipitate - Slight sulfur odor

Stantec
61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Monitoring Well Purging and Sampling Record

Site Name: Ward Street
Well ID: MW-16R
Initial Depth to Water: 9.18 ft TOIC W/Tubing 9.17
Date: 7/3/2013
Total Well Depth: 30.00 ft TOIC
Purge Start Time: 1140
Depth to Pump: 20 ft TOIC
Purge End Time: 1310
Initial Pump Rate: 110 mL/min
Pump Type: peristaltic
adjusted to: 100 mL/min at 1149 minutes
Well Diameter: 2 inches
adjusted to: _____ L/min at _____ minutes
Well Volume: 3.46 gallons

Time	Purge Volume (gallons)	pH (s.u.)	ORP (mV)	Conductivity (mS/cm)	Temp. (°C)	DO (mg/L)	Turbidity (NTU)	Water Level (ft)
1140	0.0	7.20	-258.7	2.08	19.3	0.64	11.46	9.62
1145	0.2	7.07	-322.9	2.08	19.5	0.15	10.36	10.25
1150	0.3	7.00	-337.9	2.16	19.6	0.03	10.01	10.64
1155	0.5	7.01	-355.7	2.75	19.8	0*	11.90	~~12.87~~ 10.87 AG
1200	0.7	7.00	-359.1	3.10	19.4	0.61	11.27	10.97
1205	0.8	6.95	-356.8	3.53	19.0	1.52	11.40	11.04
1210	0.9	6.92	-355.7	3.79	19.0	1.79	8.87	11.07
1215	1.0	6.91	-354.7	3.96	18.9	0.61	7.16	11.08
1220	1.2	6.91	-355.5	4.07	19.2	0.39	14.00	11.08
1225	1.3	6.90	-356.1	4.15	19.2	0.36	12.20	11.08
1230	1.4	6.90	-356.8	4.21	19.1	0.34	16.7	11.05
1235	1.6	6.90	-356.4	4.26	19.2	0.31	5.45	11.01
1240	1.7	6.90	-355.4	4.31	19.3	0.28	6.71	11.03
1245	1.9	6.89	-355.8	4.37	19.3	0.26	12.50	11.03
1250	2.0	6.90	-354.5	4.40	19.0	0.25	12.50	10.96
Final Sample Data:		6.90	-354.5	4.40	19.0	0.25	12.50	10.90

Sample ID(s): WSR-MW-16R-GW
Sample Time: 1300

Analyses:
- ☑ TCL VOCs
- ☑ TOC
- ☑ Total Na

Dup? ☐

Sampler(s): K. Premo, A. Glose

Comments: @ 1140 color: clear with black particulate odor: slight sulfur smell

* instrument reading below calibration level

Stantec
61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Monitoring Well Purging and Sampling Record

Site Name: Ward Street

Well ID: MW-22

Initial Depth to Water: 9.23 ft TOIC w/ tubing 9.23

Date: 7/2/13

Total Well Depth: 19.42 ft TOIC

Purge Start Time: 1255

Depth to Pump: 2.15 ft TOIC

Purge End Time: 1340

Initial Pump Rate: 185 mL/min

Pump Type: Peristaltic

adjusted to: 100 mL/min at 1302 minutes

Well Diameter: 4 inches

adjusted to: _____ L/min at _____ minutes

Well Volume: 1.6 gallons

Time	Purge Volume (gallons)	pH (s.u.)	ORP (mV)	Conductivity (mS/cm)	Temp. (°C)	DO (mg/L)	Turbidity (NTU)	Water Level (ft)
1257	0.0	7.16	-272.2	5.06	14.2	0.01	6.67	9.35
1302	0.1	7.15	-326.8	5.06	14.1	0.12	7.25	9.55
1307	0.3	7.16	-329.1	5.06	14.3	0.24	6.88	9.61
1312	0.5	7.16	-330.5	5.07	14.3	0.13	8.03	9.82
1317	0.7	7.15	-333.3	5.04	14.2	0.13	8.19	9.95
1322	0.9	7.15	-336.3	5.04	14.2	0.12	8.38	10.09
1327	1.0	7.16	-337.7	5.04	14.2	0.10	8.25	10.15
Final Sample Data:		7.16	-337.7	5.04	14.2	0.10	8.25	10.15

Sample ID(s): WSR-MW-22-GW

Sample Time: 1330

Analyses:
- ☑ TCL VOCs
- ☑ TOC
- ☑ Total Na

Dup? ☐

Sampler(s): K. Premo, A. Glose

Comments: @ 1257 sulfer odor
very slightly cloudy

Stantec
61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Monitoring Well Purging and Sampling Record

Site Name: Ward Street
Well ID: MW 22R
Initial Depth to Water: 10.71 ft TOIC w/ tubing 10.63
Date: 7/2/2013
Total Well Depth: 31.70 ft TOIC
Purge Start Time: 13:49
Depth to Pump: ~20 ft TOIC
Purge End Time: 1520
Initial Pump Rate: 100 mL/min
Pump Type: peristaltic
adjusted to: 50 mL/min at 1356 minutes
Well Diameter: 2 inches
adjusted to: _____ L/min at _____ minutes
Well Volume: 3.36 gallons

Time	Purge Volume (gallons)	pH (s.u.)	ORP (mV)	Conductivity (mS/cm)	Temp. (°C)	DO (mg/L)	Turbidity (NTU)	Water Level (ft)
13:51	0.1	6.93	-311.5	6.52	19.3	0.86	11.0	11.02
1356	0.2	6.89	-326.6	6.43	19.0	0.25	8.71	11.67
1401	0.3	6.89	-329.3	6.42	19.1	0.22	16.8	12.10
1406	0.4	6.89	-329.5	6.40	19.0	0.19	9.54	12.55
1411	0.5	6.89	-329.8	6.41	19.0	0.17	9.37	12.85
1416	0.7	6.89	-330.1	6.41	19.0	0.16	9.89	13.05
1421	0.8	6.88	-332.4	6.29	18.9	0.14	11.11	13.21
1426	0.9	6.89	-334.1	6.19	18.9	0.13	32.8	13.30
1431	1.0	6.89	-335.4	6.00	18.9	0.10	26.5	13.46
1436	1.1	6.90	-335.6	5.87	18.8	0.10	11.12	13.50
1441	1.2	6.90	-336.3	5.71	18.7	0.09	11.59	13.60
1446	1.3	6.90	-336.9	5.54	18.8	0.09	28.00	13.65
1451	1.4	6.91	-337.5	5.38	18.7	0.08	8.75	13.70
1456	1.5	6.91	-339.9	5.26	18.7	0.09	15.1	13.72
1501	1.7	6.91	-340.6	5.21	18.7	0.08	7.73	13.76
Final Sample Data:								

Sample ID(s): WSR-MW-22R-GW
Sample Time: 1510

Analyses:
- ☑ TCL VOCs
- ☑ TOC
- ☑ Total Na

Dup? ☐

Sampler(s): K. Premo, A. Glose
Comments: @1351 color: clear with black precipitate
odor: strongly sulfur smelling

Page 2 of 2

Stantec
61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Monitoring Well Purging and Sampling Record

Site Name: Ward Street

Well ID: MW 22R

Initial Depth to Water: 10.71 ft TOIC

Date: 7/2/13

Total Well Depth: 31.70 ft TOIC

Purge Start Time: 1349

Depth to Pump: ~20 ft TOIC

Purge End Time: 1520

Initial Pump Rate: 100 mL/min

Pump Type: peristaltic

adjusted to: 50 mL/min at 1356 minutes

Well Diameter: 2 inches

adjusted to: _____ L/min at _____ minutes

Well Volume: 3.36 gallons

Time	Purge Volume (gallons)	pH (s.u.)	ORP (mV)	Conductivity (mS/cm)	Temp. (°C)	DO (mg/L)	Turbidity (NTU)	Water Level (ft)
1506	1.8	6.92	-339.5	5.11	18.7	0.07	14.8	13.79
Final Sample Data:		6.92	-339.5	5.11	18.7	0.07	14.8	13.79

Sample ID(s): WSR-MW-22R-GW

Sample Time: 1510

Analyses:
- ☑ TCL VOCs
- ☑ TOC
- ☑ Total Na

Dup? ☐

Sampler(s): K Premo, A Glose

Comments: _____

Stantec
61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Monitoring Well Purging and Sampling Record

Site Name: Ward Street
Well ID: MW-23
Initial Depth to Water: 9.48 ft TOIC w/ turbins 9.42
Date: 7/5/13
Total Well Depth: 19.10 ft TOIC
Purge Start Time: 09 46
Depth to Pump: ~16 ft TOIC
Purge End Time: 1040
Initial Pump Rate: 100 mL/min
Pump Type: Peristaltic
adjusted to: 90 mL/min at _____ minutes
Well Diameter: 2 inches
adjusted to: _____ L/min at _____ minutes
Well Volume: 1.5 gallons

Time	Purge Volume (gallons)	pH (s.u.)	ORP (mV)	Conductivity (mS/cm)	Temp. (°C)	DO (mg/L)	Turbidity (NTU)	Water Level (ft)
0951	0.0	7.04	-224.5	3.94	17.9	0.81	6.22	9.80
0956	0.4	6.94	-243.4	3.93	18.0	0.81	11.15	10.0
1001	0.2	6.93	-253.1	3.93	17.9	0.21	4.51	10.15
1006	0.4	6.92	-260.3	3.94	18.0	0.16	5.81	10.38
1011	0.6	6.93	-265.8	3.91	18.2	0.13	8.25	10.49
1016	0.8	6.93	-268.4	3.93	18.2	0.12	8.06	10.6
1021	1.0	6.94	-270.5	3.99	18.0	0.12	8.56	10.75
1026	1.1	6.94	-271.7	3.98	18.1	0.11	9.23	10.82
Final Sample Data:		6.94	-271.7	3.98	18.1	0.11	9.23	10.82

Sample ID(s): 820-MW-23-GW
Sample Time: 1030

Analyses:
- ☑ TCL VOCs
- ☑ TOC
- ☑ Total Na

Dup? ☐

Sampler(s): K. Pino & A. Glose

Comments: @ 0951 clear w/ Black precipitate → Slight sulfur odor

V:\1905\resource\Phase II resources\Well Purge Form.xls

Purge 1 of 2

Stantec
61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Monitoring Well Purging and Sampling Record

Site Name: Ward Street
Well ID: MW-23R
Initial Depth to Water: 9.25 ft TOIC w/ Hubbs - 9.30
Date: 7/15/13
Total Well Depth: 30.65 ft TOIC
Purge Start Time: 816
Depth to Pump: 270 ft TOIC
Purge End Time:
Initial Pump Rate: 100 mL/min
Pump Type: peristaltic
adjusted to: 60 mL/min at 823 minutes
Well Diameter: 2 inches
adjusted to: ____ L/min at ____ minutes
Well Volume: 1.86 gallons

Time	Purge Volume (gallons)	pH (s.u.)	ORP (mV)	Conductivity (mS/cm)	Temp. (°C)	DO (mg/L)	Turbidity (NTU)	Water Level (ft)
816	0.0	6.84	-304.6	6.91	18.4	0.60	3.16	9.49
821	0.2	6.87	-347.6	6.85	17.7	7.92	2.96	9.55
826	0.4	6.89	-352.7	6.78	18.1	4.14	3.80	9.55
831	0.5	6.88	-354.9	6.59	17.9	2.43	2.71	9.58
836	0.7	6.86	-358.7	6.49	17.4	1.36	2.31	9.58
841	0.9	6.86	-363.3	6.43	17.2	0.76	2.03	9.60
846	1.0	6.83	-369.0	6.38	17.2	0.51	1.78	9.60
851	1.1	6.84	-374.9	6.38	17.7	0.38	2.91	9.60
856	1.2	6.82	-378.0	6.35	17.8	0.30	4.51	9.60
901	1.4	6.81	-384.9	6.39	17.7	0.23	4.45	9.60
906	1.6	6.82	-394.9	6.39	17.6	0.21	3.16	9.60
911	1.8	6.81	-398.9	6.43	17.4	0.16	3.66	9.60
916	2.0	6.80	-399.5	6.38	17.6	0.15	1.69	9.60
921	2.1	6.80	-403.9	6.42	17.4	0.13	3.33	9.60
926	2.2	6.80	-405.8	6.44	17.1	0.12	1.73	9.60
Final Sample Data:		6.80	-405.8	6.44	17.1	0.12	1.	

KP

Sample ID(s): 8-28-MW-23R-GW
Sample Time: 935

Analyses:
- ☑ TCL VOCs
- ☑ TOC
- ☑ Total Na

Dup? ☐

Sampler(s): K. Premo, A. Glose
Comments: @ 817 color: clear with black precipitate strong sulfur odor

Stantec
61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Monitoring Well Purging and Sampling Record

Site Name: Ward Street
Well ID: MW-23R
Initial Depth to Water: 9.25 ft TOIC
Date: 7/5/13
Total Well Depth: 30.85 ft TOIC
Purge Start Time: 816
Depth to Pump: 270 ft TOIC
Purge End Time: 0945
Initial Pump Rate: 100 L/min
Pump Type: peristaltic
adjusted to: 60 L/min at 823 minutes
Well Diameter: 2 inches
adjusted to: _____ L/min at _____ minutes
Well Volume: 1.86 gallons

Time	Purge Volume (gallons)	pH (s.u.)	ORP (mV)	Conductivity (mS/cm)	Temp. (°C)	DO (mg/L)	Turbidity (NTU)	Water Level (ft)
9:31	2.3	6.79	-408.0	6.45	17.5	0.11	0.82	9.60
Final Sample Data:		6.74	-408.0	6.45	17.5	0.11	0.82	9.60

Sample ID(s): 8-28-MW-23R-GW
Sample Time: 935

Analyses:
- ☑ TCL VOCs
- ☑ TOC
- ☑ Total Na

Dup? ☐

Sampler(s): K. Premo, A. Glose

Comments: _____

V:\1905\resource\Phase II resources\Well Purge Form.xls

Stantec
61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Monitoring Well Purging and Sampling Record

Site Name: Ward Street

Well ID: MW-105

Initial Depth to Water: 9.52 ft TOIC w tubing-8.90

Date: 7/2/2013

Total Well Depth: 19.61 ft TOIC

Purge Start Time: 08:08

Depth to Pump: 17 ft TOIC

Purge End Time: 0912

Initial Pump Rate: 100 mL/min

Pump Type: peristaltic

adjusted to: 80 mL/min at 0815 minutes

Well Diameter: 1 inches

adjusted to: _____ L/min at _____ minutes

Well Volume: 0.4 gallons

Time	Purge Volume (gallons)	pH (s.u.)	ORP (mV)	Conductivity (mS/cm)	Temp. (°C)	DO (mg/L)	Turbidity (NTU)	Water Level (ft)
0810	0.0	7.83	16.1	2.25	20.1	0.76	25.9	10.89
0815	0.1	8.40	-104.6	2.29	19.8	0.29	18.2	11.25
0820	0.2	8.65	-142.7	2.35	19.7	0.29	13.9	11.90
0825	0.4	8.26	-151.5	2.41	19.7	0.34	19.4	12.28
0830	0.6	8.39	-156.9	2.45	19.7	0.39	17.8	12.49
0835	0.8	8.73	-160.8	2.48	19.7	0.39	14.1	12.60
0840	0.9	8.75	-159.6	2.49	19.7	0.40	13.9	12.69
0845	1.0	8.38	-158.9	2.51	19.6	0.39	11.62	12.79
0850	1.2	8.48	-152.1	2.52	19.6	0.34	9.22	12.88
0855	1.3	8.49	-159.5	2.53	19.6	0.33	7.69	12.92
0900	1.35	8.47	-152.6	2.55	19.6	0.32	5.56	12.99
Final Sample Data:		8.47	-152.6	2.55	14.6	0.32	5.56	12.94

Sample ID(s): WSR-NW-105-GW

Sample Time: 905

Analyses:
- ☑ TCL VOCs
- ☑ TOC
- ☑ Total Na

Dup? ☐

Sampler(s): Katie Premo + AnneMarie Glose

Comments: 0815 - color: clear with some brown precipitate
odor: none

Stantec
61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Monitoring Well Purging and Sampling Record

Site Name: Ward Street
Well ID: MW-200
Initial Depth to Water: 8.81 ft TOIC 8.89
Date: 7/2/2013
Total Well Depth: 19.32 ft TOIC
Purge Start Time: 1200
Depth to Pump: ~17 ft TOIC
Purge End Time: 1245
Initial Pump Rate: 90 mL/min
Pump Type: peristaltic
adjusted to: _____ L/min at _____ minutes
Well Diameter: 2 inches
adjusted to: _____ L/min at _____ minutes
Well Volume: 1.68 gallons

Time	Purge Volume (gallons)	pH (s.u.)	ORP (mV)	Conductivity (mS/cm)	Temp. (°C)	DO (mg/L)	Turbidity (NTU)	Water Level (ft)
1205	0.1	6.96	-109.8	3.28	20.0	0.43	6.74	9.34
1210	0.2	6.98	-111.9	3.28	20.3	0.21	6.35	9.46
1215	0.3	6.98	-112.4	3.29	20.2	0.13	6.59	9.61
1220	0.4	6.99	-111.6	3.29	20.2	0.08	7.26	9.79
1225	0.6	6.99	-109.9	3.29	20.2	0.08	8.72	9.93
1230	0.8	7.00	-109.4	3.29	20.2	0.06	7.13	10.09
Final Sample Data:		7.00	-109.4	3.29	20.2	0.06	7.13	10.09

Sample ID(s): WSR-MW-200-GW
Sample Time: 1235

Analyses:
- ☑ TCL VOCs
- ☑ TOC
- ☑ Total Na

Dup? ☐

Sampler(s): K. Premo, A. Giese
Comments: @ 1210 color: clear w/ black precipitate
odor: sulfur

Stantec
61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Monitoring Well Purging and Sampling Record

Site Name: Ward Street

Well ID: MW-200R

Initial Depth to Water: 10.70 ft TOIC 10.70 w/ AWBS

Date: 7/12/2013

Total Well Depth: 29.17 ft TOIC

Purge Start Time: ~~08~~ 0946

Depth to Pump: ~20 ft TOIC

Purge End Time: 1100

Initial Pump Rate: 100 m L/min

Pump Type: Peristaltic

adjusted to: 80 m L/min at 0955 minutes

Well Diameter: 2 inches

adjusted to: ______ L/min at ______ minutes

Well Volume: 2.95 gallons

Time	Purge Volume (gallons)	pH (s.u.)	ORP (mV)	Conductivity (mS/cm)	Temp. (ºC)	DO (mg/L)	Turbidity (NTU)	Water Level (ft)
~~09~~ 0950	0.0	9.17	-205.4	3.67	14.5	0.31	3.13	11.19
0955	0.2	9.10	-267.2	3.26	14.3	0.06	11.1	11.85
1000	0.4	9.62	-288.5	3.18	14.4	0.06	4.58	12.19
1005	0.6	9.53	-294.7	3.15	14.4	0.14	1.94	12.62
	more has been purged than water level has dropped							
	→ continue w/ low flow procedure							
1010	0.7	9.50	-306.9	3.13	14.4	0.11	1.40	12.95
1015	0.9	9.79	-314.3	3.11	14.3	0.08	3.59	13.54
~~1020~~ 1023	1.0	9.79	-316.8	3.10	14.3	0.07	4.2	13.97
1028	1.1	9.88	-320.7	3.09	14.3	0.07	3.12	14.40
1033	1.2	9.79	-324.7	3.08	14.2	0.06	2.54	14.72
1038	1.3	9.80	-323.7	3.09	14.2	0.06	4.3	15.18
1043	1.4	9.80	-321.4	3.08	14.2	0.06	7.86	15.44
Final Sample Data:		9.80	-321.4	3.08	14.2	0.06	7.86	15.44

Sample ID(s): WSR-MW-200R-GW

Sample Time: 1050

Analyses:
- ☑ TCL VOCs
- ☑ TOC
- ☑ Total Na

Dup? ☐

Sampler(s): K. Premo, A. Glose

Comments: 0950 - stale odor, Black Precipitate 0955 - Sulfer Odor & Black Precipitate

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Stantec
61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Monitoring Well Purging and Sampling Record

Site Name: Ward Street
Well ID: MW-207R
Initial Depth to Water: 10.90 ft TOIC w/ tubing 10.87
Date: 7/5/13
Total Well Depth: 30.51 ft TOIC
Purge Start Time: 1120
Depth to Pump: _____ ft TOIC
Purge End Time: 1250
Initial Pump Rate: 100 mL/min
Pump Type: Peristaltic
adjusted to: 100 mL/min at 1125 minutes
Well Diameter: 2 inches
adjusted to: _____ L/min at _____ minutes
Well Volume: 3.1 gallons

Time	Purge Volume (gallons)	pH (s.u.)	ORP (mV)	Conductivity (mS/cm)	Temp. (°C)	DO (mg/L)	Turbidity (NTU)	Water Level (ft)
1122	0.0	6.81	-316.5	3.57	19.5	0*	9.99	11.25
1127	0.1	6.80	-355.5	3.51	14.1	2.52	3.64	11.58
1132	0.2	6.79	-380.4	3.52	18.4	0.70	2.97	11.65
1137	0.4	6.79	-360.2	3.49	18.7	0.56	3.77	11.71
1142	0.6	6.79	-358.1	3.48	18.7	0.45	3.03	11.75
1147	0.8	6.74	-361.6	3.47	18.7	0.34	5.63	11.77
1152	0.9	6.80	-359.7	3.44	14.0	0.32	3.84	11.80
1157	1.0	6.77	-356.2	3.54	14.0	0.25	sat	11.80
1202	1.1	6.77	-355.3	3.61	14.2	0.22	3.14	11.80
1207	1.2	6.75	-342.6	3.68	14.3	0.20	6.56	11.72
(MP) 1212	1.3	6.77	-354.4	3.81	18.8	0.18	3.40	11.78
1217	1.5	6.78	-352.5	3.87	14.0	0.17	6.67	11.80
1222	1.7	6.79	-349.3	3.93	14.4	0.16	4.15	11.82
1227	1.9	6.79	-347.2	3.98	18.8	0.16	2.96	11.88
1232	2.0	6.78	-349.2	4.00	18.7	0.15	3.53	11.80
Final Sample Data:		6.78	-349.2	4.00	18.7	0.15	3.53	11.80

Sample ID(s): USR-MW-207R-GW
Sample Time: 1240

*Cal. Value for DO is what meter is Reading

Analyses:
- ☑ TCL VOCs
- ☑ TOC
- ☑ Total Na

Dup? ☐

Sampler(s): Kristina D A. Glos

Comments: Clear w/ Black precipitate Strong sulfur odor

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Stantec
61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Monitoring Well Purging and Sampling Record

Site Name: Ward Street
Initial Depth to Water: 9.75 ft TOIC w/ tubing 9.71
Total Well Depth: 20.80 ft TOIC
Depth to Pump: ~16 ft TOIC
Initial Pump Rate: 100 mL/min
adjusted to: _____ L/min at _____ minutes
adjusted to: _____ L/min at _____ minutes

Well ID: MW-208
Date: 7/2/13
Purge Start Time: 9:30
Purge End Time: 1055
Pump Type: Geopump
Well Diameter: 2 inches
Well Volume: 1.8 gallons

Time	Purge Volume (gallons)	pH (s.u.)	ORP (mV)	Conductivity (mS/cm)	Temp. (°C)	DO (mg/L)	Turbidity (NTU)	Water Level (ft)
0933	0.0	7.42	-274.7	2.37	18.8	0.54	3.77	9.93
0938	0.1	7.30	-314.2	2.31	18.4	0.20	4.06	10.23
0943	0.2	7.28	-326.2	2.29	18.6	0.21	4.67	10.44
0948	0.4	7.28	-323.5	2.28	18.6	0.35	4.60	10.70
0953	0.5	7.28	-325.4	2.25	18.6	0.57	4.70	10.83
0958	0.7	7.26	-322.2	2.24	18.6	1.17	5.07	11.01
1003	0.8	7.24	-319.7	2.22	18.6	0.66	5.27	11.21
1008	1.0	7.30	-318.2	2.20	18.6	0.24	6.13	11.44
1013	1.1	7.32	-310.7	2.15	18.7	0.21	5.96	11.70
1018	1.1	7.33	-303.1	2.13	18.7	0.14	6.24	11.82
1023	1.2	7.33	-285.0	2.08	18.7	0.19	6.96	12.4
1028	1.3	7.33	-274.7	2.01	18.8	0.16	5.33	12.26
1033	1.5	7.32	-278.4	2.00	18.7	0.16	4.41	12.34
1038	1.8	7.35	-282.8	1.47	18.7	0.18	4.01	12.51
Final Sample Data:		7.35	-282.8	1.47	18.7	0.18	4.01	12.51

Sample ID(s): WSR-MW-208-GW & WSR-MW-DUP-GW
Sample Time: 1045

Analyses:
- ☑ TCL VOCs
- ☑ TOC
- ☑ Total Na

Dup? ☑

Sampler(s): K. Preno & A. Close
Comments: @0933 Cleary Black Precipitate - slight Sulfur odor

Stantec
61 Commercial Street
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(585) 475-1440

Monitoring Well Purging and Sampling Record

Site Name: Ward Street
Well ID: MW-209
Initial Depth to Water: 9.73 ft TOIC w/ tubing 9.70
Date: 7/3/2013
Total Well Depth: 20.88 ft TOIC
Purge Start Time: 810
Depth to Pump: ~18 ft TOIC
Purge End Time: 9:20
Initial Pump Rate: 100 mL/min
Pump Type: peristaltic
adjusted to: _____ L/min at _____ minutes
Well Diameter: 2 inches
adjusted to: _____ L/min at _____ minutes
Well Volume: 1.78 gallons

Time	Purge Volume (gallons)	pH (s.u.)	ORP (mV)	Conductivity (mS/cm)	Temp. (°C)	DO (mg/L)	Turbidity (NTU)	Water Level (ft)
810	0.0	7.31	-294.3	4.02	18.8	0.55	6.43	9.90
815	0.1	7.38	-327.7	4.04	18.3	1.13	5.99	10.00
820	0.3	7.39	-342.6	4.05	18.5	3.05	4.00	10.15
825	0.4	7.38	-352.4	4.05	18.5	0.85	3.92	10.24
830	0.6	7.38	-357.6	4.04	18.4	0.39	3.81	10.39
835	0.8	7.38	-360.5	4.03	18.4	0.32	3.81	10.50
840	0.9	7.38	-362.8	4.02	18.4	0.28	4.88	10.58
845	1.0	7.38	-364.2	4.01	18.4	0.25	3.86	10.63
850	1.1	7.38	-364.8	4.00	18.4	0.23	3.84	10.75
855	1.2	7.38	-365.3	3.99	18.5	0.20	3.91	10.84
900	1.4	7.38	-364.3	3.99	18.5	0.19	3.78	10.91
905	1.6	7.38	-364.8	3.98	18.6	0.17	3.79	11.00
Final Sample Data:		7.38	-364.8	3.98	18.6	0.17	3.79	11.00

Sample ID(s): WSR-MW-209-GW
Sample Time: 910

Analyses:
- ☑ TCL VOCs
- ☑ TOC
- ☑ Total Na

Dup? ☐

Sampler(s): K. Premo, A. Glose
Comments: @ 810 color: clear with black precipitate odor: sulfur

Stantec
61 Commercial Street
Rochester, NY 14614
(585) 475-1440

Monitoring Well Purging and Sampling Record

Site Name: Ward Street

Well ID: MW-212R

Initial Depth to Water: 10.78 ft TOIC 10.72 with tubing

Date: 7/5/13

Total Well Depth: 30.61 ft TOIC

Purge Start Time: 1257

Depth to Pump: ~20 ft TOIC

Purge End Time: 1430

Initial Pump Rate: 100 mL/min

Pump Type: peristaltic

adjusted to: _____ L/min at _____ minutes

Well Diameter: 2 inches

adjusted to: _____ L/min at _____ minutes

Well Volume: 3.17 gallons

Time	Purge Volume (gallons)	pH (s.u.)	ORP (mV)	Conductivity (mS/cm)	Temp. (°C)	DO (mg/L)	Turbidity (NTU)	Water Level (ft)
1257	0.0	7.10	-314.1	2.42	20.4	1.35	6.33	11.25
1302	0.1	7.02	-354.1	2.34	19.9	0.51	11.90	11.87
1307	0.3	7.03	-361.3	2.33	20.0	0.42	4.88	12.40
1312	0.5	7.05	-366.4	2.31	20.5	0.34	3.91	12.85
1317	0.6	7.00	-365.2	2.39	20.4	0.30	3.66	13.00
1322	0.7	6.89	-363.5	2.71	20.4	0.27	20.80	~~13.01~~ 13.18
1327	0.9	6.85	-362.7	3.12	20.6	0.25	4.17	13.20
1332	1.0	6.83	-364.2	3.30	20.5	0.24	13.90	13.23
1337	1.1	6.83	-364.9	3.42	20.3	0.21	13.80	13.27
1342	1.15	6.85	-365.5	3.47	~~19.2~~ 19.8	0.20	24.3	13.44
1347	1.2	6.86	-367.0	3.36	19.5	0.19	11.7	13.65
1352	1.3	6.84	-365.0	3.43	19.2	0.18	6.75	13.82
1357	1.5	6.83	-363.9	3.53	19.1	0.17	8.97	13.90
1402	1.7	6.82	-363.3	3.63	19.3	0.16	10.76	13.92
1407	1.9	6.82	-363.8	3.71	19.0	0.15	7.32	13.95
Final Sample Data:								

Sample ID(s): WSR-MW-212R-GW

Sample Time: 1420

Analyses:
- ☑ TCL VOCs
- ☑ TOC
- ☑ Total Na

Dup? ☐

Sampler(s): K. Premo, A. Glose

Comments: @ 1302 color: clear with black precipitate sulfur odor

Stantec
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Rochester, NY 14614
(585) 475-1440

Page 2 of 2

Monitoring Well Purging and Sampling Record

Site Name: Ward Street
Well ID: MW-212R
Initial Depth to Water: 10.78 ft TOIC
Date: 7/5/13
Total Well Depth: 30.61 ft TOIC
Purge Start Time: 1257
Depth to Pump: ~20 ft TOIC
Purge End Time: 1430
Initial Pump Rate: 100 mL/min
Pump Type: peristaltic
adjusted to: _____ L/min at _____ minutes
Well Diameter: 2 inches
adjusted to: _____ L/min at _____ minutes
Well Volume: 3.17 gallons

Time	Purge Volume (gallons)	pH (s.u.)	ORP (mV)	Conductivity (mS/cm)	Temp. (°C)	DO (mg/L)	Turbidity (NTU)	Water Level (ft)
1412	2.1	6.82	-365.1	3.72	18.9	0.15	5.73	13.98
1417	2.2	6.81	-365.3	3.72	19.3	0.14	8.98	14.00
Final Sample Data:		6.81	-365.3	3.72	14.3	0.14	8.98	14.00

Sample ID(s): NSR-MW-212R-GW
Sample Time: 1420

Analyses:
- ☑ TCL VOCs
- ☑ TOC
- ☑ Total Na

Dup? ☐

Sampler(s): K. Premo, A. Glose

Comments: _____

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APPENDIX C

Appendix C (Graphs of VOC Concentrations over time)