

**2017 PERIODIC REVIEW REPORT
FORMER CARRIAGE FACTORY
NYSDEC SITE #C828184**

**33 LITCHFIELD STREET
ROCHESTER, MONROE COUNTY,
NEW YORK**



Prepared for:

New York State Department of
Environmental Conservation
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Prepared on behalf of:

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April 11, 2017

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1.0 INTRODUCTION AND OVERVIEW

Stantec Consulting Services Inc. (Stantec) has prepared this Periodic Review Report (PRR) and the attached Institutional Control/Engineering Control (IC/EC) forms (see Appendix A) to summarize Site Management (SM) activities at The Former Carriage Factory located at 33 Litchfield Street, Rochester, New York (Site) for the period of March 16, 2016 to March 16, 2017.

This PRR is prepared on behalf of Carriage Factory Special Needs Apartments, L.P. (CFSNA), the current owner of the Site, to fulfill the PRR requirements of the Brownfield Cleanup Agreement (BCA) under the Brownfield Cleanup Program (BCP) of the New York State Department of Environmental Conservation (NYSDEC). The Site is identified by the NYSDEC as BCA Site Number C828184.

The Site is a 1.5±-acre parcel bounded by Wiley Street and DeVault Storage Services, Inc. to the north, a parking lot to the south, Litchfield Street and a warehouse to the east, and Clark Alley and residences to the west. A Site Location Map is presented on Figure 1.

1.1 SUMMARY OF SITE CONTAMINATION AND REMEDIAL HISTORY

The building was originally built in 1900 for the production of horse-drawn carriages, and is one of the oldest former manufacturing plants in Rochester. Historical Site operations included manufacture of wood trim/accent-related products for the automobile industry, other automotive parts, and clothing washers and dryers. Operations at the site ceased in approximately 1993.

Beginning in 2010, a series of Phase I and Phase II Environmental Site Assessments (ESAs) were performed by Development and Environmental Consultants, Inc. (DECI) in association with real estate due diligence by CFSNA prior to its potential purchase of the property. Results of these investigations indicated the presence of chlorinated volatile organic compounds (CVOCs) in soil and/or in groundwater at concentrations above the applicable NYSDEC's soil cleanup objectives (SCOs) and groundwater standards. Additionally, urban fill consisting of ash, slag, cinders, bricks, concrete, and varying amounts of silt, sand, and gravel was encountered at most exterior locations with thicknesses ranging from 1.8 to 4.4 feet.

Based on the results of the ESAs, CFSNA entered the NYSDEC's BCP in February, 2013. Soon thereafter, construction began on renovation of the building for use as apartments. Stantec concurrently performed a Remedial Investigation (RI) to further identify and delineate contamination at the Site. Details of the RI activities and methodology are presented in the Remedial Investigation Report dated August, 2014. The RI further characterized the extent of contamination at the site: a soil gas survey identified the areal extent of CVOC impacts; a geophysical survey inside the building indicated numerous buried pipe runs; surface soil samples in urban fill material exhibited concentrations of several metals, including lead, mercury, arsenic, and barium, at levels in excess of NYSDEC Restricted Residential (RR) SCOs; groundwater monitoring well installation and subsequent gauging showed that groundwater levels were highest beneath the building and flow direction was radially away from the building; groundwater sampling showed that samples from thirteen of the sixteen monitoring wells on and

near the Site exceeded groundwater standards for one or more CVOC; and the types and concentration distribution of CVOCs were indicative that reductive dechlorination of these contaminants was occurring naturally.

Based on the results of the RI, an Interim Remedial Measures Work Plan (IRMWP) was submitted to the NYSDEC in May, 2013 and was approved on August 30, 2013. To accomplish the objectives of the IRMWP, Stantec performed the following primary activities:

- Observed and documented construction activities that involved soil excavation, grading, handling, stockpiling and disposal;
- Arranged for and documented pumping, containerizing, treatment and/or discharge of groundwater entering excavations;
- Performed visual and instrument screening of excavated and in-situ soils;
- Obtained permits on behalf of CFSNA from the Monroe County Department of Environmental Services (MCDES) for temporary and long-term discharge of impacted groundwater to the sanitary sewer;
- Developed a Contained-In Demonstration Work Plan (CIDWP) to address the characterization and disposal of chlorinated solvent-impacted soils;
- Collected samples of known, suspected, or potentially-impacted media for laboratory analysis, including:
 - Soils in interior and exterior excavations to confirm contaminant levels in remaining soils;
 - Stockpiles of impacted and non-impacted materials in accordance with CIDWP requirements and to obtain landfill disposal approval or to demonstrate acceptability for onsite reuse;
 - Soil from supplemental exterior test borings performed in areas of known CVOC impacts, in accordance with the CIDWP;
 - Waters entering interior excavations or the elevator pit for characterization to obtain sewer discharge approval; and
 - Groundwater from monitoring wells for remedial program monitoring.
- Designed and oversaw installation of a piping system beneath the building to facilitate injection of a carbon substrate material as part of the enhanced reductive dechlorination (ERD) groundwater remediation program;
- Designed and oversaw installation of a vapor barrier and a sub-slab depressurization system (SSDS) to mitigate the potential for soil vapor intrusion (SVI) into the building;
- Facilitated waste profile preparation and landfill approval for disposal of impacted soils; and
- Performed injection of a sodium lactate solution to provide the carbon substrate for the ERD groundwater remediation program.

Based on observations and sampling data from the RI and IRM programs, contamination remained in subsurface soils and groundwater at the site:

- Interior Soils - Although the majority of impacted soil was removed from the basement during several phases of excavation, occasional indications of remaining contamination, specifically in the atrium area, in the form of minor staining or low-level photoionization detector (PID) readings were observed. Accordingly, the potential for impacted soil to be encountered in the basement still existed. As noted above, a SSDS has been installed to mitigate the potential for sub-slab vapors to enter the building.
- Exterior Soils - Virtually all of the exterior areas south of the building were excavated for driveway and parking lot construction, sidewalk and landscape area development or utility installation. In all of these areas, a demarcation layer (filter fabric or Geogrid) was placed at the base of the excavations prior to placing backfill soils or other materials (clean backfill soil/topsoil, concrete, paving stones or asphalt).
- Groundwater - Groundwater monitoring events conducted after the sodium lactate injection described above indicated that the parent VOCs tetrachloroethylene (PCE) and trichloroethylene (TCE) were degrading into the daughter compounds of the cis- and trans- isomers of 1,2-dichloroethylene (1,2-DCE) and vinyl chloride (VC); however, concentrations remained above groundwater standards for some wells.

During November, 2015, a supplemental ERD injection was performed at the Site. Over 16,500 gallons of a 20,000 milligrams per liter (mg/L) sodium lactate and water solution were injected into the nine horizontal sub-slab injection legs and into groundwater monitoring wells RW-4 and B102-MW located south of the building. The supplemental injection improved the groundwater geochemistry conditions needed to continue the ERD process. Consequently, CVOC concentrations continued to decline in all wells.

1.2 SITE MANAGEMENT REQUIREMENTS

Site Management activities were implemented in accordance with the NYSDEC-approved Site Management Plan (SMP) for the Site. The SMP includes the following required Institutional Controls (ICs) and Engineering Controls (ECs):

- The property uses are limited to *Restricted Residential, Commercial and Industrial* as described in 6 NYCRR Part 375-1.8(g)(2)(ii-iv) as long as the following long-term controls are employed:
 - The SSDS is operated continuously to mitigate the potential for SVI.
 - Operation of the elevator pit sump pump and pumping to a sanitary sewer for treatment at an approved POTW (groundwater extraction and ex-situ treatment).
 - The soil cover system, building floor slabs, and sub-slab vapor barrier are maintained. NYSDEC approval must be obtained in advance for activities which breach impervious surfaces or disturb soils on the Site, and those activities must be performed in accordance with the SMP.

- Components of the in-situ groundwater remediation system which includes piping installed beneath the building slab and access points located immediately to the south of the building remain intact and undisturbed.
- Other than sampling for monitoring purposes, the use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the Monroe County Department of Health to render it safe for use for its intended, non-potable industrial purpose, and the user must first notify and obtain written approval to do so from the NYSDEC. Groundwater is prohibited from use as a potable water supply within the City of Rochester limits.
- The Site may not be used for purposes with a higher level of use, such as *Unrestricted* or *Residential*, without additional remediation and amendment of the NYSDEC-approved Environmental Easement.
- Deed Restrictions have been implemented to restrict land use to *Restricted Residential*, *Commercial*, and *Industrial* uses, restrict the use of groundwater, and prevent future exposure to any contaminants of concern remaining at the Site.
- Vegetable gardens and farming on the property are prohibited.
- Annually (or as otherwise directed by NYSDEC), CFSNA must certify to the Department as to the continued presence and effectiveness of the ICs/ECs described above.

The SMP specifies a program for monthly system performance monitoring of the SSDS. The CFSNA employees perform routine monitoring including:

- Verifying normal system operating conditions and making observations of any abnormalities, whether visual, olfactory or auditory, with respect to the SSDS; and
- Recording of vacuum levels at SSDS fan manometers located in the fifth-floor utility room.

Data is recorded on the Monthly Monitoring Form provided in Appendix I of the SMP and is included here as Table 1 and field logs are provided in Appendix B.

1.3 EFFECTIVENESS OF THE REMEDIAL PROGRAM

1.3.1 Groundwater Sampling

During the reporting period covered by this PRR, three post-supplemental-injection (PS) groundwater sampling events were completed: May 2016 (6 months PS), August 2016 (9 months PS), and February 2017 (15 months PS). As per the SMP, the following wells have been included in each sampling event: RW-1, RW-2, RW-3, RW-4, RW-5, RW-6, RW-7, RW-9, RW-12, B102-MW, B106-MW, and B108-MW. Well locations are provided on Figure 2. Analytical results from these three events, in addition to previous groundwater sampling results, are included on Table 2, and laboratory analytical reports are included in Appendix C. As specified in the SMP, all groundwater monitoring analytical results have been validated by a qualified professional (Data Validation Services of North Creek, NY) and Data Usability

Summary Reports (DUSRs) for the groundwater sampling data are provided in Appendix D. Figure 3 shows concentrations of CVOCs at the wells listed above over time. Table 3 displays water quality parameters recorded during each of the groundwater sampling events that have occurred during this reporting period as well as previous events.

Six Months Post-Supplemental-Injection

Analytical results from the second round of PS groundwater sampling performed on May 2 and 3, 2016 reflect groundwater conditions six months after the supplemental injection of the sodium lactate solution. The parent VOCs PCE and TCE continued to degrade into the daughter compounds of the cis- and trans- 1,2-DCE and VC, before proceeding to complete destruction. Of the twelve wells sampled, all had PCE concentrations below the groundwater standard (5 µg/L) and eleven had TCE concentrations below the groundwater standard (5 µg/L). The parent compounds were not detected at RW-6, but slightly elevated detection limits of 20 µg/L, due to elevated concentrations of cis-1,2-DCE and VC, may have masked the potential presence of PCE and TCE between 5 and 20 µg/L. A TCE concentration slightly above the groundwater standard of 5 µg/L was only detected at RW-9 (6.51 µg/L), an offsite well that has not been subjected to sodium lactate injections.

Daughter compound concentrations also continued to decline at most wells from peak levels observed within the first six months of the remediation program. Eight of the twelve monitoring wells (B102-MW, B106-MW, RW-2, RW-3, RW-4, RW-5, RW-7, and RW-12) were below groundwater standards for all VOCs. RW-1 contained only VC at 2.75 µg which is only slightly above the groundwater standard of 2 µg/L. Therefore, including RW-1 and RW-9, ten of the twelve wells were either below or only slightly above groundwater standards groundwater standards.

The highest concentrations of daughter compounds were observed at offsite well RW-6 (1,910 µg/L cis-1,2-DCE, 18.0 µg/L trans-1,2-DCE, and 624 µg/L VC). These concentrations represented a decrease for VC concentrations from the previous event, but an increase for cis- and trans-1,2-DCE.

Nine Months Post-Supplemental-Injection

Analytical results from the third round of PS groundwater sampling performed on August 9 and 10, 2016 reflect groundwater conditions nine months after the supplemental injection of the sodium lactate. PCE and TCE continued to degrade into cis- and trans-1,2-DCE and VC before proceeding to complete destruction.

Of the twelve wells sampled, eleven had PCE concentrations below groundwater standards and all twelve had TCE concentrations below groundwater standards. PCE and TCE were not detected at RW-6, but slightly elevated detection limits of 20.0 µg/L, due to elevated cis-1,2-DCE and VC, may have masked the potential presence of the parent compounds between 5 and 20 µg/L. A PCE concentration

(5.52 µg/L) slightly above the groundwater standard was detected only in RW-9, an offsite well that has not been subjected to sodium lactate injections.

Three of the twelve wells (B102-MW, RW-7, and RW-12) were below groundwater standards for all VOC's. The reduction in the number of wells below groundwater standards during the August 2016 sampling event is believed to be the result of the severe drought conditions which were manifested in groundwater elevations one to several feet lower than typical conditions (see Table 4). Nevertheless, with the exception of VC, daughter compound concentrations generally continued to decline, or remain below groundwater standards at most wells. Four wells (RW-1, RW-2, RW-3, and RW-4) contained only VC; concentrations ranged from 3.56-5.78 µg/L. Therefore, eight of the twelve wells were either below or only slightly above groundwater standards for all VOCs.

The highest concentrations of daughter compounds continued to be observed at offsite well RW-6 (344 µg/L cis-1,2-DCE, 20.0 µg/L trans-1,2-DCE, and 201 µg/L VC), however, these concentrations represent substantial decreases from the previous event.

Anaerobic and reducing conditions were maintained creating favorable geochemical conditions for continued dechlorination. Given continued improvements to groundwater quality as a result of the ERD Injection Program, Stantec requested NYSDEC approval for reducing the groundwater monitoring program to semi-annual sampling events. In November, 2016, NYSDEC approved the request and groundwater sampling activities were henceforth conducted semi-annually.

Fifteen Months Post-Supplemental Injection

Analytical results from groundwater sampling performed on February 13 and 14, 2017 reflect groundwater conditions fifteen months after the supplemental injection of the sodium lactate. PCE and TCE continued to degrade into 1,2-DCE and VC, before proceeding to complete destruction. Of the twelve wells sampled, ten had PCE concentrations below groundwater standards and eleven had TCE concentrations below groundwater standards. PCE concentrations slightly above the groundwater standard were detected at only wells RW-6 and RW-9 (5.58 µg/L and 5.06 µg/L, respectively), while TCE was detected above the groundwater standard at only RW-6 at a concentration of 22.2 µg/L.

Daughter compound concentrations also continued to decline at most wells from peak levels observed within the first six months of the remediation program. Ten of the twelve monitoring wells (B102-MW, B106-MW, RW-1, RW-2, RW-3, RW-4, RW-5, RW-7, RW-9, and RW-12) were below groundwater standards for cis-1,2-DCE, trans-1,2-DCE, and VC. Of these ten wells, both B102-MW and RW-12 have been below groundwater standards since February 2016. Therefore, it is recommended that periodic sampling of these two wells no longer be required.

Of the two remaining wells, the highest concentrations of daughter compounds were observed at offsite well RW-6 (277 µg/L cis-1,2-DCE, and 147 µg/L VC). These concentrations represent a continual decrease from the previous two sampling events and are indicative of ongoing reductive dechlorination. Only minor exceedances of daughter compound concentrations were observed at B108-MW with 7.2 µg/L of cis-1,2-DCE and 3.51 µg/L of VC.

Based on the February 2017 groundwater parameter monitoring data which is provided in Table 3, the primary and supplemental carbon substrate injections have continued to maintain optimal anaerobic (DO < 2.0 mg/L) and reducing (negative ORP) conditions across the targeted plume of the Site. Of the 12 monitoring wells used for ERD monitoring, 11 have negative ORP values, with 7 having values less than -100 mV. Monitoring well RW-9, located outside and upgradient of the targeted plume area, and which never received the ERD injection, was the only well to have DO levels greater than 2.0 mg/L and positive ORP values.

Significant contaminant reduction continues to be observed since implementation of the ERD remediation program. The lower concentrations of parent compounds and greater levels (order of magnitude) of daughter compounds, combined with anaerobic and reducing geochemistry conditions, indicate biodegradation of VOCs is continuing within the targeted plume area. With the exception of the recommended deletion of B102-MW and RW-12 from the sampling program, it is recommended that the current groundwater monitoring program continue in order to monitor progress of the ERD remediation program.

1.3.2 Sub-Slab Depressurization System Monitoring

The SSDS active parameters are monitored monthly by CFSNA. This includes collecting vacuum readings from the manometers and confirming that the fans are powered on. These observations are presented on Table 1 and copies of the field sheets are presented in Appendix B. The fans remained powered on for the duration of this reporting period and vacuum measured at the manometers remained consistently between 2.0 and 2.4 inches of water column (IWC) for all three fans.

As recommended in the previous PRR, monitoring of the six vacuum monitoring points (VMPs) located throughout the building (see locations Figure 4) occurred at a quarterly frequency during this reporting period. A micro-manometer was used to measure the vacuum at each VMP. The data collected during these quarterly monitoring events are included in Table 5. Additionally, on May 3, 2016, the SSDS fans were shut off for two hours to allow condensate in the riser pipes to drain back into the sub-slab gravel, as recommended in the previous PRR. This appeared to have improved vacuum at all six VMPs. In summary, the SSDS has maintained its area of influence beneath the building, and the vacuum readings have satisfied the minimum negative pressure differential of 0.002 IWC required by the New York State Department of health (NYSDOH) guidance. The readings ranged from 0.009 in VMP-1 (December 2016) to 0.205 IWC in VMP-5 (May 2016).

An annual SSDS monitoring event was conducted on February 14, 2017. In addition to monitoring the VMPs, the vacuum was also measured at the three vapor extraction wells at a position in the piping just below their respective fans. VOC readings were taken with a PID from the exhaust pipes from each of the fans. The data collected during this monitoring event are included in Table 5. The VMP data is illustrated on Figure 4.

In addition to the data collected during the annual SSDS monitoring event in February, 2017, the system components and building floor were inspected for visible cracks or audible indications of air leakage. No cracks or leaks were observed in any accessible system components or in the building floor. No new penetrations were observed in the building floor. A slight gurgling sound was observed on December 6, 2016 and February 14, 2017 in SSDS Riser Pipes 1 and 2 (Riser Pipe 3 is currently inaccessible as it is located behind a wall) suggesting that condensate or groundwater may have been present in the lower portions of the riser pipes.

In the previous PRR, it was recommended that VMP-2 be repaired due to a broken connection between the brass sampling valve and the PVC riser pipe. This repair was made on December 6, 2016 by replacing the brass valve with a PVC adapter and cap and sealing the threads with putty. The brass-PVC connections at VMP-3 and VMP-4 were also sealed with putty. To ease the vacuum monitoring procedure, at points where sufficient space was left between the monitoring valve and the well box lid during VMP construction (VMP-1, VMP-5, and VMP-6) the brass monitoring valves were left open and PVC caps were added to keep the VMPs sealed while not in use.

1.3.3 Intrusive Activities

During the current reporting period, no intrusive work that disturbed the building floor slab or the exterior Site cover was undertaken.

1.3.4 Sump Sampling

On a quarterly basis Stantec has collected a sample from the groundwater sump located in the elevator pit which drains to the building sanitary plumbing discharge. These samples were analyzed for Halogenated VOCs and metals Cd, Cu, Pb, and Zn as required by MCDES under sewer use permit SUP-996. The analytical results were well below permit discharge limits and VOCs have been undetected in sump samples since September, 2014. Analytical results for the sump samples are presented on Table 6.

In addition to the water pumped from the sump, Stantec also has discharged groundwater purged during sampling to the building sanitary discharge as outlined in the permit. Prior to discharging purge water, it was sampled and results were approved by MCDES. Analytical results for the purge water are presented on Table 6.

As of March 13, 2017, a combined total of 6,463 gallons of elevator sump water and groundwater has been discharged to the sanitary sewer.

1.4 COMPLIANCE

Compliance with the SMP was maintained throughout the reporting period.

1.5 RECOMMENDATIONS

Based on the analytical results from the 2016 and 2017 groundwater monitoring, it is recommended that wells B102-MW and RW-12 be eliminated from future sampling since both of the wells have been below groundwater standards for one year. Otherwise, it is proposed to continue sampling the wells in accordance with the methodology set out in the SMP and the Enhanced Reductive Dechlorination – Supplemental Injection Work Plan (Injection Work Plan) at the semi-annual frequency approved by the NYSDEC in November 2016.

It is recommended that VMP measurements continue to be made at a quarterly frequency, and if a significant drop in overall vacuum level is observed, an effort be made to drain condensate from the vapor extraction wells. An initial effort could be made by shutting down the fans for approximately two hours during summer inspections (when adequate first-floor ventilation could be maintained) to allow any condensate to drain back into the slab sub-base material. This would be a temporary remedy as the condensate may again collect in the base portions of the extraction wells over time. If this is found to occur within a period of one quarter, it may be prudent to install drain ports in the vapor extraction wells.

Coordination between CFSNA staff and Stantec will continue to ensure effective implementation of the SMP, including monthly reminders to record SSDS readings from the fifth floor utility room.

No change to the currently approved frequency of PRR (currently annual) is recommended at this time.

2.0 REMEDY PERFORMANCE, EFFECTIVENESS, AND PROTECTIVENESS

Based upon the data obtained and observations made, the ECs appear to be performing well, and the ECs and ICs have been effective at maintaining conditions protective of human health and the environment for the continued *Restricted Residential* use of the Site. Furthermore, based on the groundwater and SSDS monitoring events and related observations that took place during this reporting period, it appears that the SSDS has maintained sufficient vacuum influence beneath the building.

In accordance with the methodology and schedule set out in the SMP, the Injection Work Plan, the 2016 PRR, and the groundwater sampling frequency established in November 2016, it is proposed to continue: (i) the quarterly sampling and analysis of the elevator sump; (ii) the semi-annual sampling of the groundwater (with the exception of wells B102-MW and RW-12, which

are proposed for elimination from sampling); and (iii) the quarterly vacuum measurement of the VMPs.

3.0 COMPLIANCE WITH IC/EC REQUIREMENTS AND THE OM&M PLAN

During the reporting period, compliance with required ICs and ECs has been maintained.

- Use of the Site has been limited to *Restricted Residential* uses.
- The SSDS has been operated continuously and is currently achieving adequate sub-slab depressurization.
- The elevator sump pump continued operation during the reporting period and pumped water to a sanitary sewer for treatment at an approved POTW.
- No groundwater use has occurred at the Site.
- Deed Restrictions are in place to restrict land use to *Restricted Residential, Commercial, and Industrial* uses, restrict the use of groundwater, and prevent future exposure to any contaminants of concern remaining at the Site.

IC/EC forms certifying to the NYSDEC the continued presence and effectiveness of the controls described above are presented in Appendix A.

Monthly SSDS monitoring has been performed by the CFSNA employees, including:

- Verifying normal system operating conditions and making observations of any abnormalities, visual, olfactory, or auditory, with respect to the system; and
- Recording of vacuum levels at fan manometers located in the fifth-floor utility room.

4.0 OVERALL CONCLUSIONS AND RECOMMENDATIONS

Based on the sampling results and observations from the 2016 and 2017 groundwater sampling events, it is recommended that wells B102-MW and RW-12 be eliminated from future sampling since both of the wells have been below groundwater standards for one year. Otherwise, it is proposed to continue sampling the on- and offsite wells in accordance with the methodology set out in the SMP and the Injection Work Plan at the semi-annual frequency established in November 2016. The elevator sump will continue to be sampled on a quarterly basis as required by the MCDEDS permit.

Based on the 2017 annual SSDS monitoring event, it is recommended to continue monitoring the sub-slab vacuum levels at the six VMPs quarterly.

CFSNA employees will continue their monthly monitoring of the fan manometers and SSDS system operating conditions and submit this data to Stantec for review. Stantec will provide monthly reminders to CFSNA to make sure the data is recorded as specified in the SMP.

No change to the currently approved frequency of PRR (currently annual) is recommended at this time.

Tables

Table 1
Monthly Monitoring of the Sub-Slab Depressurization System
Former Carriage Factory
33 Litchfield Street, Rochester, NY

Date	Operator	Vacuum (inches Water Column)			Pilot Light ON (Y or N)*			Additional Notes (Abnormal conditions such as hot fan housings, vibrations, unusual noises, etc)
		FAN-1 (west)	FAN-2 (center)	FAN-3 (east)	FAN-1	FAN-2	FAN-3	
3/17/16	DePaul	2.3	2.3	2.1	Y	Y	Y	
4/7/16	DePaul	2.2	2.2	2.0	Y	Y	Y	
5/3/16	DePaul	2.2	2.2	2.0	Y	Y	Y	
6/7/16	DePaul	2.1	2.2	2.0	Y	Y	Y	
7/13/16	DePaul	2.1	2.2	2.0	Y	Y	Y	
8/2/16	DePaul	2.1	2.2	2.0	Y	Y	Y	
8/10/16	Stantec	2.1	2.2	2.0	Y	Y	Y	
9/22/16	DePaul	2.1	2.2	2.0	Y	Y	Y	
10/26/16	DePaul	2.1	2.2	2.0	Y	Y	Y	
11/25/16	DePaul	2.1	2.2	2.0	Y	Y	Y	
12/1/16	DePaul	2.1	2.2	2.0	Y	Y	Y	
1/11/17	DePaul	2.2	2.2	2.0	Y	Y	Y	
2/13/17	DePaul	2.4	2.4	2.0	Y	Y	Y	
3/16/17	DePaul	2.3	2.3	2.0	Y	Y	Y	

* If one or more pilot lights are OFF, contact Stantec immediately at 585-475-1440.

Table 2
Summary of Analytical Results in Groundwater
Remedial Investigation
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type			On-Site Parking Lot																		
			B101MW		B102MW																
			21-May-13	21-May-13	22-May-13	27-Mar-14	27-Mar-14	28-May-14	2-Jul-14	6-Aug-14	28-Oct-14	3-Feb-15	3-Feb-15	4-May-15	4-May-15	12-Aug-15	12-Aug-15	1-Feb-16	3-May-16	9-Aug-16	14-Feb-17
			LI-B101MW-GW1	LI-B101MW-GW1DUP	LI-B102MW-GW1	LI-B102-MW	LI-DUP-MW	LI-B102-MW-PI1	LI-B102-MW-PI2	LI-B102-MW-PI3	LI-B102-MW-PI6	LI-B102-MW-PI9	LI-DUP-PI9	LI-B102-MW-PI12	LI-DUP-PI12	LI-B102-MW-PI15	LI-DUP-PI15	LI-B102-MW-PS3	LI-B102-MW-PS6	LI-B102-MW-PS9	LI-B102-MW-PS15
			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
			CCGE	CCGE	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH
			E2314	E2314	E2342	141138	141138	142196	142794	143439	144730	150382	150382	150382	151696	151696	153411	153411	160464	161713	163436
E2314-01	E2314-02	E2342-04	141138-11	141138-14	142196-07	142794-09	143439-10	144730-10	150382-05	150382-13	151696-11	151696-10	153411-06	153411-07	160464-06	161713-10	163436-10	170564-10			
Units	TOGS																				
General Chemistry																					
Total Organic Carbon	µg/L	n/v	-	-	-	6,000	4,600	15,200	146,000	24,600	7,300	6,500	6,000	5,400	5,300	7,500 J-	7,400 J-	39,400	5,220	2,620	1,780
Metals																					
Aluminum	µg/L	n/v	36.9	32.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	µg/L	3 ^B	12.5 U	12.5 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	25 ^B	5,000 U	5,000 U	-	10 U	10 U	10 U	10 U	10 UJ	10 U	5.98 J	6.89 J	7.92 J	10.4	19.5 J-	23.5 J-	-	-	-	-
Barium	µg/L	1,000 ^B	62	69.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	3 ^A	1,500 U	1,500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	5 ^B	1,500 U	1,500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	µg/L	n/v	121,000	132,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	50 ^B	2,500 U	2,500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	n/v	7,500 U	7,500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	200 ^B	5,000 U	5,000 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	µg/L	300 ^B	25.0 U	25.0 U	-	100 U	100 U	4,330 ^B	9,940 ^B	6,480 ^B	10,700 ^B	13,900 ^B	13,600 ^B	10,000 ^B	10,100 ^B	17,000 J- ^B	18,400 J- ^B	-	-	-	-
Lead	µg/L	25 ^B	12.6	12.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	µg/L	35,000 ^A	30,600	33,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	µg/L	300 ^B	5.42 J	5.53 J	-	694 ^B	675 ^B	1,070 ^B	2,280 ^B	1,200 ^B	1,060 ^B	844 ^B	838 ^B	945 ^B	949 ^B	1,980 J- ^B	2,010 J- ^B	-	-	-	-
Mercury	µg/L	0.7 ^B	0.200 U	0.200 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	100 ^B	2.52 J	10.0 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	µg/L	n/v	9,810	11,100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	10 ^B	5.92	4.23 J	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	50 ^B	2,500 U	2,500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	20,000 ^B	24,700 ^B	27,600 ^B	-	18,500	18,100	41,100 ^B	169,000 ^B	83,100 M ^B	63,800 ^B	58,000 ^B	58,900 ^B	49,800 ^B	50,300 ^B	450,000 J- ^B	455,000 J- ^B	-	-	-	-
Thallium	µg/L	0.5 ^A	10.0 U	10.0 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	n/v	10.0 U	10.0 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	2,000 ^A	12.4	10.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds																					
Acetone	µg/L	50 ^A	25 U	25 U	25 U	10.0 U	10.0 U	10.0 U	6.54 J	10.0 U	10.0 U	10.0 UJ	10.0 UJ	10.0 U	10.0 U	10.0 UJ	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 UJ
Benzene	µg/L	1 ^B	5 U	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.00 UJ	1.00 UJ	1.00 U	1.00 U	1.00 U	1.00 U
Bromodichloromethane	µg/L	50 ^A	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Bromoform (Tribromomethane)	µg/L	50 ^A	5 U	5 U	5 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 UJ	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U
Bromomethane (Methyl bromide)	µg/L	5 ^{-B}	5 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U	2.00 UJ	2.00 U	2.00 U
Butylbenzene, n-	µg/L	5 ^{-B}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzene, sec- (2-Phenylbutane)	µg/L	5 ^{-B}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzene, tert-	µg/L	5 ^{-B}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	µg/L	60 ^A	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5 ^B	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Chlorobenzene (Monochlorobenzene)	µg/L	5 ^{-B}	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Chlorobromomethane	µg/L	5 ^{-B}	5 U	5 U	5 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 UJ	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U
Chloroethane (Ethyl Chloride)	µg/L	5 ^{-B}	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Chloroethyl Vinyl Ether, 2-	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	7 ^B	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Chloromethane	µg/L	5 ^{-B}	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Cyclohexane	µg/L	n/v	5 U	5 U	5 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 UJ	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U
Dibromo-3-Chloropropane, 1,2- (DBCP)	µg/L	0.04 ^B	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Dibromochloromethane	µg/L	50 ^A	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Dichlorobenzene, 1,2-	µg/L	3 ^B	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Dichlorobenzene, 1,3-	µg/L	3 ^B	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Dichlorobenzene, 1,4-	µg/L	3 ^B	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Dichlorodifluoromethane (Freon 12)	µg/L	5 ^{-B}	5 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Dichloroethane, 1,1-	µg/L	5 ^{-B}	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Dichloroethane, 1,2-	µg/L	0.6 ^B	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Dichloroethene, 1,1-	µg/L	5 ^{-B}	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U

See notes on last page.

Table 2
Summary of Analytical Results in Groundwater
Remedial Investigation
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type			On-Site Parking Lot																		
			B101MW				B102MW														
			21-May-13	21-May-13	22-May-13	27-Mar-14	27-Mar-14	28-May-14	2-Jul-14	6-Aug-14	28-Oct-14	3-Feb-15	3-Feb-15	4-May-15	4-May-15	12-Aug-15	12-Aug-15	1-Feb-16	3-May-16	9-Aug-16	14-Feb-17
			LI-B101MW-GW1	LI-B101MW-GW1DUP	LI-B102MW-GW1	LI-B102-MW	LI-DUP-MW	LI-B102-MW-PI1	LI-B102-MW-PI2	LI-B102-MW-PI3	LI-B102-MW-PI6	LI-B102-MW-PI9	LI-DUP-PI9	LI-B102-MW-PI12	LI-DUP-PI12	LI-B102-MW-PI15	LI-DUP-PI15	LI-B102-MW-PS15	LI-B102-MW-PS6	LI-B102-MW-PS9	LI-B102-MW-PS15
			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	
			CCGE	CCGE	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	
			E2314	E2314	E2342	141138	141138	142196	142794	143439	144730	150382	150382	151696	151696	153411	153411	160464	161713	163436	170564
			E2314-01	E2314-02	E2342-04	141138-11	141138-14	142196-07	142794-09	143439-10	144730-10	150382-05	150382-13	151696-11	151696-10	153411-06	153411-07	160464-06	161713-10	163436-10	170564-10
	Units	TOGS		Field Duplicate			Field Duplicate						Field Duplicate		Field Duplicate		Field Duplicate				

Volatile Organic Compounds (cont'd)																					
Dichloroethene, cis-1,2-	µg/L	5 ^{-B}	5 U	5 U	7.5 ^B	4.45	4.44	4.61	7.04 ^B	68.7 ^B	7.01 ^B	2.00 U	2.00 U	4.10	4.11	2.75 J-	2.74 J-	2.00 U	2.00 U	1.01 J	2.00 U
Dichloroethene, trans-1,2-	µg/L	5 ^{-B}	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Dichloropropane, 1,2-	µg/L	1 ^B	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Dichloropropene, cis-1,3-	µg/L	0.4 ^{-B}	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Dichloropropene, trans-1,3-	µg/L	0.4 ^{-B}	5 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Dioxane, 1,4-	µg/L	n/v	100 U	100 U	100 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U	20.0 U	20.0 U	20.0 UJ	20.0 UJ	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U R
Ethylbenzene	µg/L	5 ^{-B}	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.0006 ^B	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Hexanone, 2- (Methyl Butyl Ketone)	µg/L	50 ^A	25 U	25 U	25 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 UJ	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U
Isopropylbenzene	µg/L	5 ^{-B}	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Isopropyltoluene, p- (Cymene)	µg/L	5 ^{-B}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Acetate	µg/L	n/v	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	50 ^A	25 U	25 U	25 U	10.0 UJ	10.0 UJ	10.0 U	27.8 J	10.0 U	10.0 UJ	10.0 UJ	10.0 UJ	10.0 U	10.0 U	10.0 UJ	10.0 UJ	9.98 J	10.0 U	10.0 U	10.0 U
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	25 U	25 U	25 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 UJ	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U
Methyl tert-butyl ether (MTBE)	µg/L	10 ^A	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Methylcyclohexane	µg/L	n/v	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Methylene Chloride (Dichloromethane)	µg/L	5 ^{-B}	5 U	5 U	5 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 UJ	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U
Naphthalene	µg/L	10 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propylbenzene, n-	µg/L	5 ^{-B}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	5 ^{-B}	5 U	5 U	5 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 UJ	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U
Tetrachloroethane, 1,1,1,2,2-	µg/L	5 ^{-B}	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Tetrachloroethene (PCE)	µg/L	5 ^{-B}	1.6 J	1.2 J	20.9 ^B	24.4 ^B	25.4 ^B	20.6 ^B	26.4 ^B	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Toluene	µg/L	5 ^{-B}	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Trichlorobenzene, 1,2,3-	µg/L	5 ^{-B}	5 U	5 U	5 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 UJ	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U
Trichlorobenzene, 1,2,4-	µg/L	5 ^{-B}	5 U	5 U	5 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 UJ	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U
Trichloroethane, 1,1,1-	µg/L	5 ^{-B}	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Trichloroethane, 1,1,2-	µg/L	1 ^B	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Trichloroethene (TCE)	µg/L	5 ^{-B}	0.51 J	5 U	14.9 ^B	9.78 ^B	10.2 ^B	7.72 ^B	15.3 ^B	2.09	2.00 U	2.00 U	2.00 U	2.38	2.42	2.00 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Trichlorofluoromethane (Freon 11)	µg/L	5 ^{-B}	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Trichlorotrifluoroethane (Freon 113)	µg/L	5 ^{-B}	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Trimethylbenzene, 1,2,4-	µg/L	5 ^{-B}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,3,5-	µg/L	5 ^{-B}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Acetate	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	2 ^B	5 U	5 U	0.53 J	2.00 U	2.00 U	2.00 U	1.45 J	4.49 ^B	20.8 ^B	11.7 NJ ^B	11.9 ^B	11.0 ^B	11.3 ^B	8.78 J- ^B	8.78 J- ^B	2.00 U	2.00 U	1.94 J	1.12 J
Xylene, m & p-	µg/L	5 ^{-B}	10 U	10 U	10 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Xylene, o-	µg/L	5 ^{-B}	5 U	5 U	5 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 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Total VOC	µg/L	n/v	2.11	1.2	43.83	38.63	40.04	32.93	84.53	75.28	27.81	11.7	11.9	17.48	17.83	11.53 J-	11.52 J-	9.98	ND	2.95	1.12
VOC Tentatively Identified Compounds																					
Total VOC TICs	µg/L	n/v	2.5 U	2.5 U	2.5 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table 2
Summary of Analytical Results in Groundwater
Remedial Investigation
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type			On-Site Parking Lot																
			RW-4														RW-11		
			25-Apr-12	22-May-13	26-Mar-14	29-May-14	2-Jul-14	6-Aug-14	29-Oct-14	4-Feb-15	4-May-15	13-Aug-15	1-Feb-16	3-May-16	9-Aug-16	13-Feb-17	14-Jun-12	22-May-13	27-Mar-14
			RW-4	LI-RW-4-GW1	LI-RW-4	LI-RW-4-PI1	LI-RW-4-PI2	LI-RW-4-PI3	LI-RW4-PI6	LI-RW-4-PI9	LI-RW-4-PI12	LI-RW-4-PI15	LI-RW-4-PS3	LI-RW-4-PS6	LI-RW-4-PS9	LI-RW-4-PS15	RW-11	LI-RW-11-GW1	LI-RW-11
			DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	DECI	STANTEC	STANTEC
PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	CCGE	PARAROCH	
12:1770	E2342	141138	142196	142794	143439	144730	150382	151696	153411	160464	161713	163436	170564	12:2523	E2342	141138			
12:1770-01	E2342-03	141138-04	142196-13	142794-10	143439-04	144730-04	150382-11	151696-04	153411-13	160464-07	161713-04	163436-04	170564-04	12:2523-03	E2342-02	141138-09			
Units	TOGS																		

General Chemistry																			
Total Organic Carbon	µg/L	n/v	-	-	-	8,200	339,000	63,000	6,900	5,900	5,400	15,000 J-	234,000	141,000	13,400	10,700	-	-	-
Metals																			
Aluminum	µg/L	n/v	-	43.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	µg/L	3 ^B	-	12.5 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	25 ^B	-	5,000 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	1,000 ^B	-	151	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	3 ^A	-	1,500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	5 ^B	-	1,500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	µg/L	n/v	-	141,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	50 ^B	-	2,500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	n/v	-	7,500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	200 ^B	-	5,000 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	µg/L	300 ^B	-	11.7 J	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	25 ^B	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	µg/L	35,000 ^A	-	29,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	µg/L	300 ^B	-	667 J ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	0.7 ^B	-	0.200 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	100 ^B	-	6.32 J	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	µg/L	n/v	-	17,800	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	10 ^B	-	5.52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	50 ^B	-	2,500 U N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	20,000 ^B	-	8,750	-	22,300 ^B	298,000 ^B	222,000 ^B	43,500 ^B	110,000 ^B	86,900 ^B	395,000 J- ^B	-	-	-	-	-	-	-
Thallium	µg/L	0.5 ^A	-	10.0 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	n/v	-	10.0 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	2,000 ^A	-	18.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds																			
Acetone	µg/L	50 ^A	10.0 UJ	25 U	10.0 U	6.72 J	10.0 U	12.7 J	10.0 U	10.0 UJ	10.0 U	10.0 UJ	9.92 J	9.13 J	7.45 J	10.0 UJ	-	25 U	10.0 U
Benzene	µg/L	1 ^B	0.700 UJ	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.00 UJ	1.00 U	1.00 U	1.00 U	1.00 U	-	5 U	1 U
Bromodichloromethane	µg/L	50 ^A	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U
Bromoform (Tribromomethane)	µg/L	50 ^A	5.00 UJ	5 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5 U	5.00 U
Bromomethane (Methyl bromide)	µg/L	5 ^{-B}	2.00 UJ	5 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 UJ	5 U	2.00 U
Butylbenzene, n-	µg/L	5 ^{-B}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzene, sec- (2-Phenylbutane)	µg/L	5 ^{-B}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzene, tert-	µg/L	5 ^{-B}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	µg/L	60 ^A	2.00 UJ	5 U	2.00 U	2.00 U	3.04	3.64	2.00 U	2.00 U	2.00 U	2.00 UJ	1.26 J	2.00 U	2.00 U	2.00 U	-	5 U	2.00 U
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5 ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	5 U	2.00 U
Chlorobenzene (Monochlorobenzene)	µg/L	5 ^{-B}	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U
Chlorobromomethane	µg/L	5 ^{-B}	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	-	5 U Q	5.00 U
Chloroethane (Ethyl Chloride)	µg/L	5 ^{-B}	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U
Chloroethyl Vinyl Ether, 2-	µg/L	n/v	10.0 U R	-	-	-	-	-	-	-	-	-	-	-	-	-	10.0 U R	-	-
Chloroform (Trichloromethane)	µg/L	7 ^B	2.00 UJ	5 U	2.00 U	2.00 U	1.91 J	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U
Chloromethane	µg/L	5 ^{-B}	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U
Cyclohexane	µg/L	n/v	-	5 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	-	5 U	10.0 U
Dibromo-3-Chloropropane, 1,2- (DBCP)	µg/L	0.04 ^B	-	5 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	-	5 U	10.0 U
Dibromochloromethane	µg/L	50 ^A	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U
Dichlorobenzene, 1,2-	µg/L	3 ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U
Dichlorobenzene, 1,3-	µg/L	3 ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U
Dichlorobenzene, 1,4-	µg/L	3 ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U
Dichlorodifluoromethane (Freon 12)	µg/L	5 ^{-B}	-	5 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	-	5 U	2.00 U
Dichloroethane, 1,1-	µg/L	5 ^{-B}	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U
Dichloroethane, 1,2-	µg/L	0.6 ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	5 U	2.00 U
Dichloroethene, 1,1-	µg/L	5 ^{-B}	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U

See notes on last page.

Table 2
Summary of Analytical Results in Groundwater
Remedial Investigation
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area		Units	TOGS	On-Site Parking Lot															RW-11		
Sample Location	Sample Date			25-Apr-12	22-May-13	26-Mar-14	29-May-14	2-Jul-14	6-Aug-14	29-Oct-14	4-Feb-15	4-May-15	13-Aug-15	1-Feb-16	3-May-16	9-Aug-16	13-Feb-17	14-Jun-12	22-May-13	27-Mar-14	
Sample ID				RW-4	LI-RW-4-GW1	LI-RW-4	LI-RW-4-P11	LI-RW-4-P12	LI-RW-4-P13	LI-RW4-P16	LI-RW-4-P19	LI-RW-4-P112	LI-RW-4-P115	LI-RW-4-P53	LI-RW-4-P56	LI-RW-4-P59	LI-RW-4-P515	RW-11	LI-RW-11-GW1	LI-RW-11	
Sampling Company				DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	DECI	STANTEC	STANTEC	
Laboratory				PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	CCGE	PARAROCH	
Laboratory Work Order				12:1770	E2342	141138	142196	142794	143439	144730	150382	151696	153411	160464	161713	163436	170564	12:2523	E2342	141138	
Laboratory Sample ID				12:1770-01	E2342-03	141138-04	142196-13	142794-10	143439-04	144730-04	150382-11	151696-04	153411-13	160464-07	161713-04	163436-04	170564-04	12:2523-03	E2342-02	141138-09	
Sample Type																					
Volatile Organic Compounds (cont'd)																					
Dichloroethene, cis-1,2-	µg/L			5-- ^B	23.1 J ^B	14.9 ^B	6.41 ^B	9.56 ^B	13.4 ^B	87.9 ^B	47.3 ^B	23.7 ^B	14.8 ^B	21.8 J- ^B	14.0 ^B	2.00 U	3.42	4.93	2.00 U	5 U	2.00 U
Dichloroethene, trans-1,2-	µg/L	5-- ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	1.11 J	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U		
Dichloropropane, 1,2-	µg/L	1 ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U		
Dichloropropene, cis-1,3-	µg/L	0.4- ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U		
Dichloropropene, trans-1,3-	µg/L	0.4- ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U		
Dioxane, 1,4-	µg/L	n/v	-	100 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U	20.0 U	20.0 UJ	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U R	-	100 U R	20.0 U R		
Ethylbenzene	µg/L	5-- ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	-	5 U	2.00 U		
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.0006 ^B	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	-	5 U	2.00 U		
Hexanone, 2- (Methyl Butyl Ketone)	µg/L	50 ^A	5.00 UJ	25 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	-	25 U	5.00 U		
Isopropylbenzene	µg/L	5-- ^B	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	-	5 U	2.00 U		
Isopropyltoluene, p- (Cymene)	µg/L	5-- ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methyl Acetate	µg/L	n/v	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	5.93	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	-	5 U	2.00 U		
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	50 ^A	10.0 UJ	25 U	10.0 UJ	10.0 U	20.8 J	15.8	10.0 UJ	10.0 UJ	10.0 U	10.0 UJ	58.1 ^A	16.1 NJ	10.0 U	10.0 U	-	25 U	10.0 UJ		
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	5.00 UJ	25 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	-	25 U	5.00 U		
Methyl tert-butyl ether (MTBE)	µg/L	10 ^A	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	-	5 U	2.00 U		
Methylcyclohexane	µg/L	n/v	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	-	5 U	2.00 U		
Methylene Chloride (Dichloromethane)	µg/L	5-- ^B	5.00 UJ	5 U	4.35 JB	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5 U	5.00 U		
Naphthalene	µg/L	10 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Propylbenzene, n-	µg/L	5-- ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Styrene	µg/L	5-- ^B	5.00 UJ	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	-	5 U	5.00 U		
Tetrachloroethane, 1,1,2,2-	µg/L	5-- ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U		
Tetrachloroethene (PCE)	µg/L	5-- ^B	62.6 J ^B	55.8 ^B	62.7 ^B	76.0 ^B	73.0 ^B	54.5 ^B	10.3 ^B	9.17 ^B	18.7 ^B	9.40 J- ^B	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1.3 J	1.11 J		
Toluene	µg/L	5-- ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	-	5 U	2.00 U		
Trichlorobenzene, 1,2,3-	µg/L	5-- ^B	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	-	5 U	5.00 U		
Trichlorobenzene, 1,2,4-	µg/L	5-- ^B	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	-	5 U	5.00 U		
Trichloroethane, 1,1,1-	µg/L	5-- ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U		
Trichloroethane, 1,1,2-	µg/L	1 ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U		
Trichloroethene (TCE)	µg/L	5-- ^B	21.4 J ^B	19.8 ^B	10.3 ^B	18.0 ^B	20.4 ^B	34.3 ^B	13.7 ^B	5.85 ^B	8.94 ^B	6.51 J- ^B	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U		
Trichlorofluoromethane (Freon 11)	µg/L	5-- ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	5 U	2.00 U		
Trichlorotrifluoroethane (Freon 113)	µg/L	5-- ^B	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	-	5 U	2.00 U		
Trimethylbenzene, 1,2,4-	µg/L	5-- ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Trimethylbenzene, 1,3,5-	µg/L	5-- ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Vinyl Acetate	µg/L	n/v	5.00 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Vinyl Chloride	µg/L	2 ^B	3.86 J ^B	1.8 J	1.72 J	2.00 U	3.07 ^B	2.00 U	28.4 ^B	4.58 NJ ^B	2.00 U	1.42 J-	7.98 ^B	2.00 U	5.78 NJ ^B	1.39 NJ	2.00 U	5 U	2.00 U		
Xylene, m & p-	µg/L	5-- ^B	2.00 UJ	10 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	-	10 U	2.00 U		
Xylene, o-	µg/L	5-- ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	-	5 U	2.00 U		
Total VOC	µg/L	n/v	110.96	92.3	85.48	110.28	135.62	209.95	105.63	43.3	47.59	39.13 J-	91.26	25.23	16.65	6.32	ND	1.3	1.11		
VOC Tentatively Identified Compounds																					
Total VOC TICs	µg/L	n/v	-	2.5 U	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5 U	-		

See notes on last page.

Table 2
Summary of Analytical Results in Groundwater
Remedial Investigation
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area	Sample Location	Sample Date	Sample ID	Sampling Company	Laboratory	Laboratory Work Order	Laboratory Sample ID	Sample Type	Units	TOGS	On-Site Building																											
											B106MW														B108MW													
											23-May-13 LI-B106MW-GW1	26-Mar-14 LI-B106-MW-PI1	28-May-14 LI-B106-MW-PI1	2-Jul-14 LI-B106-MW-PI2	7-Aug-14 LI-B106-MW-PI3	28-Oct-14 LI-B106-MW-PI6	3-Feb-15 LI-B106-MW-PI9	5-May-15 LI-B106-MW-PI12	12-Aug-15 LI-B106-MW-PI15	2-Feb-16 LI-B106-MW-PS3	2-May-16 LI-B106-MW-PS6	10-Aug-16 LI-B106-MW-PS9	13-Feb-17 LI-B106-MW-PS15	23-May-13 LI-B108MW-GW1	26-Mar-14 LI-B108-MW-PI1	28-May-14 LI-B108-MW-PI1	28-May-14 LI-MW-DUP-PI1	2-Jul-14 LI-B108-MW-PI2	8-Aug-14 LI-B108-MW-PI3	29-Oct-14 LI-B108-MW-PI6	3-Feb-15 LI-B108-MW-PI9	5-May-15 LI-B108-MW-PI12	12-Aug-15 LI-B108-MW-PI15	2-Feb-16 LI-B108-MW-PS3	2-May-16 LI-B108-MW-PS6	10-Aug-16 LI-B108-MW-PS9	13-Feb-17 LI-B108-MW-PS15	
E2363	141138	142196	142794	143439	144730	150382	151696	153411	160464	161713	163436	170564	E2363	141138	142196	142196	142196	142794	143439	144730	150382	151696	153411	160464	161713	160464	161713	163436	170564									
E2363-03	141138-12	142196-06	142794-11	143439-11	144730-11	150382-06	151696-12	153411-05	160464-12	161713-11	163436-11	170564-11	E2363-02	141138-13	142196-04	142196-05	Field Duplicate	142794-12	143439-12	144730-12	150382-07	151696-13	153411-04	160464-08	161713-12	163436-12	170564-12											

General Chemistry																													
Total Organic Carbon	µg/L	n/v	-	-	188,000	514,000	77,600	4,000 J-	3,100 J	1,500	3,200 J-	18,900	2,630	7,380	1,720	-	3,300	60,300	60,200	86,100	72,200	45,000	18,100 J	1,700	3,400 J-	101,000	68,300	27,600	1,970
Metals																													
Aluminum	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	66	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	µg/L	3 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	12.5 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	25 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	6.2	10 U	10 U	10 U	10 U	10 U	10 U	5.92 J	10.0 U	9.02 J-	-	-	-	-
Barium	µg/L	1,000 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	54.9	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	1,500 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	5 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	0.7 J	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	97,000	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	50 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	2,500 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	7,500 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	200 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	4.16 J	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	µg/L	300 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	45.3	100 U	1,400 ^B	978 ^B	3,520 ^B	2,480 ^B	2,350 ^B	2,660 ^B	999 ^B	3,540 J- ^B	-	-	-	-
Lead	µg/L	25 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	4.9	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	µg/L	35,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	23,200	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	µg/L	300 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	46.4 J	187	184	179	217	158	106	87.6	81.8	131 J-	-	-	-	-
Mercury	µg/L	0.7 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	0.200 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	100 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	2.1 J	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	10,500	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	10 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	5.03	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	50 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	2,500 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	20,000 ^B	-	-	162,000 ^B	375,000 ^B	185,000 ^B	59,200 ^B	50,200 ^B	40,100 ^B	42,100 J- ^B	-	-	-	-	26,300 ^B	33,000 ^B	103,000 ^B	101,000 ^B	100,000 M ^B	115,000 ^B	82,900 ^B	130,000 ^B	42,400 ^B	72,000 J- ^B	-	-	-	-
Thallium	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	10.0 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	10.0 U	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	8.94 J	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds																													
Acetone	µg/L	50 ^A	25 U	10.0 U	10.0 U	12.9	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 UJ	25 U	10.0 U	10.0 U	10.0 U	6.04 J	8.49 J	10.0 U	6.51 J	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 UJ
Benzene	µg/L	1 ^B	5 U	1 U	1 U	0.842 J	0.391 J	1 U	1 U	1 U	1.00 UJ	1.00 U	1.00 U	1.00 U	1.00 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.00 UJ	1.00 U	1.00 U	1.00 U	1.00 U
Bromodichloromethane	µg/L	50 ^A	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	5 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 UJ	2.00 U MC	2.00 U	2.00 U	2.00 U
Bromoform (Tribromomethane)	µg/L	50 ^A	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	5 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 UJ	5.00 U	5.00 U	5.00 U	5.00 U
Bromomethane (Methyl bromide)	µg/L	5 ^{-B}	5 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U MC	2.00 UJ	2.00 U	2.00 U
Butylbenzene, n-	µg/L	5 ^{-B}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzene, sec- (2-Phenylbutane)	µg/L	5 ^{-B}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzene, tert-	µg/L	5 ^{-B}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	µg/L	60 ^A	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	5 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 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5 ^B	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	5 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 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Chlorobenzene (Monochlorobenzene)	µg/L	5 ^{-B}	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	5 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 UJ	2.00 U	2.00 U	2.00 U	2.00 U
Chlorobromomethane	µg/L	5 ^{-B}	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	5 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 UJ	5.00 U	5.00 U	5.00 U	5.00 U
Chloroethane (Ethyl Chloride)	µg/L	5 ^{-B}	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ																		

Table 2
Summary of Analytical Results in Groundwater
Remedial Investigation
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area				On-Site Building																													
Sample Location				RW-1																RW-2													
Sample Date				23-Mar-12	23-May-13	26-Mar-14	29-May-14	1-Jul-14	8-Aug-14	29-Oct-14	3-Feb-15	5-May-15	12-Aug-15	2-Feb-16	2-May-16	10-Aug-16	13-Feb-17	23-Mar-12	21-May-13	26-Mar-14	29-May-14	1-Jul-14	8-Aug-14	29-Oct-14	3-Feb-15	5-May-15	12-Aug-15	2-Feb-16	2-May-16	10-Aug-16	13-Feb-17		
Sample ID				RW-1	LI-RW-1-GW1	LI-RW-1	LI-RW-1-P11	LI-RW-1-P12	LI-RW-1-P13	LI-RW1-P16	LI-RW-1-P19	LI-RW-1-P112	LI-RW-1-P115	LI-RW-1-PS3	LI-RW-1-PS6	LI-RW-1-PS9	LI-RW-1-PS15	RW-2	LI-RW-2-GW1	LI-RW-2	LI-RW-2-P11	LI-RW-2-P12	LI-RW-2-P13	LI-RW2-P16	LI-RW-2-P19	LI-RW-2-P112	LI-RW-2-P115	LI-RW-2-PS3	LI-RW-2-PS6	LI-RW-2-PS9	LI-RW-2-PS15		
Sampling Company				DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC		
Laboratory				PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH		
Laboratory Work Order				12:1239	E2363	141138	142196	142794	143439	144730	150382	151696	153411	160464	161713	163436	170564	12:1239	E2314	141138	142196	142794	143439	144730	150382	151696	153411	160464	161713	163436	170564		
Laboratory Sample ID				12:1239-01	E2363-01	141138-01	142196-09	142794-08	143439-01	144730-01	150382-01	151696-01	153411-01	160464-11	161713-01	163436-01	170564-01	12:1239-02	E2314-03	141138-02	142196-10	142794-07	143439-02	144730-02	150382-02	151696-02	153411-02	160464-10	161713-02	163436-02	170564-02		
Sample Type		Units	TOGS																														
General Chemistry																																	
Total Organic Carbon				µg/L	n/v	-	-	-	1,060,000	415,000	43,500	103,000	9,900	4,500	7,900	4,960	3,510	7,510	2,240	-	-	3,200	553,000	150,000	259,000	23,900	9,800	2,700	10,100	81,100	5,520	7,970	1,900
Metals																																	
Aluminum	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	64.5	-	-	-	-	-	-	-	-	-	-	-	-	-	
Antimony	µg/L	3 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12.5 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	µg/L	25 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,000 U	10 U	10 U	10 U	10 U	10 U	10 U	10.0 U	5.33 J	-	-	-	-	-	
Barium	µg/L	1,000 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	59.7 N	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	µg/L	3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	µg/L	5 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
Calcium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	87,300	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	µg/L	50 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7,500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	µg/L	200 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,000 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
Iron	µg/L	300, ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	169	300	2,220 ^B	1,210 ^B	937 ^B	1,430 ^B	498 ^B	1,850 ^B	4,060 ^B	-	-	-	-	-	
Lead	µg/L	25 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.61	-	-	-	-	-	-	-	-	-	-	-	-	-	
Magnesium	µg/L	35,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29,500	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manganese	µg/L	300, ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	305 J ^B	120	233	60.8	108	187	47.5	66.3	118	-	-	-	-	-	
Mercury	µg/L	0.7 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.200 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	µg/L	100 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.0 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
Potassium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22,600	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	10 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,000 U N	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	µg/L	50 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,500 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	µg/L	20,000 ^B	-	-	-	146,000 ^B	331,000 ^B	137,000 ^B	146,000 ^B	85,700 ^B	175,000 ^B	668,000 ^B	-	-	-	-	-	-	35,600 ^B	39,100 ^B	370,000 ^B	290,000 ^B	197,000 ^B	152,000 ^B	129,000 ^B	60,600 ^B	114,000 ^B	-	-	-	-	-	
Thallium	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.0 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.0 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.6	-	-	-	-	-	-	-	-	-	-	-	-	-	
Volatile Organic Compounds																																	
Acetone	µg/L	50 ^A	10.0 U	25 U	10.0 U	10.0 U	10.0 U	10.0 U	15.2	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 U	160 ^A	10.0 U	32.4	19.4	9.47 J	10.0 U	10.0 UJ	10.0 U	10.0 U	7.44 J	10.0 U	10.0 U	10.0 UJ			
Benzene	µg/L	1 ^B	0.700 U	0.49 NJ	1 U	1 U	1 U	1 U	0.561 J	1 U	1 U	1.00 U	1.00 U	1.00 U	1.00 U	0.700 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U		
Bromodichloromethane	µg/L	50 ^A	2.00 U	5 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	5 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	2.00 U		
Bromoform (Tribromomethane)	µg/L	50 ^A	5.00 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	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 U	5.00 U	5.00 U	5.00 U	5.00 UJ	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		
Bromomethane (Methyl bromide)	µg/L	5,- ^B	2.00 U	5 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U		
Butylbenzene, n-	µg/L	5,- ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Butylbenzene, sec- (2-Phenylbutane)	µg/L	5,- ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Butylbenzene, tert-	µg/L	5,- ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Carbon Disulfide	µg/L	60 ^A	2.00 U	5 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	5 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		
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5 ^B	2.00 U	5 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																	

Table 2
Summary of Analytical Results in Groundwater
Remedial Investigation
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area			On-Site Building																											
Sample Location			RW-1														RW-2													
Sample Date			23-Mar-12	23-May-13	26-Mar-14	29-May-14	1-Jul-14	8-Aug-14	29-Oct-14	3-Feb-15	5-May-15	12-Aug-15	2-Feb-16	2-May-16	10-Aug-16	13-Feb-17	23-Mar-12	21-May-13	26-Mar-14	29-May-14	1-Jul-14	8-Aug-14	29-Oct-14	3-Feb-15	5-May-15	12-Aug-15	2-Feb-16	2-May-16	10-Aug-16	13-Feb-17
Sample ID			RW-1	LI-RW-1-GW1	LI-RW-1	LI-RW-1-PI1	LI-RW-1-PI2	LI-RW-1-PI3	LI-RW1-PI6	LI-RW-1-PI9	LI-RW-1-PI12	LI-RW-1-PI15	LI-RW-1-PS3	LI-RW-1-PS6	LI-RW-1-PS9	LI-RW-1-PS15	RW-2	LI-RW-2-GW1	LI-RW-2	LI-RW-2-PI1	LI-RW-2-PI2	LI-RW-2-PI3	LI-RW2-PI6	LI-RW-2-PI9	LI-RW-2-PI12	LI-RW-2-PI15	LI-RW-2-PS3	LI-RW-2-PS6	LI-RW-2-PS9	LI-RW-2-PS15
Sampling Company			DECI	STANTEC	STANTEC	STANTECH	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory			PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order			12:1239	E2363	141138	142196	142794	143439	144730	150382	151696	153411	160464	161713	163436	170564	12:1239	E2314	141138	142196	142794	143439	144730	150382	151696	153411	160464	161713	163436	170564
Laboratory Sample ID			12:1239-01	E2363-01	141138-01	142196-09	142794-08	143439-01	144730-01	150382-01	151696-01	153411-01	160464-11	161713-01	163436-01	170564-01	12:1239-02	E2314-03	141138-02	142196-10	142794-07	143439-02	144730-02	150382-02	151696-02	153411-02	160464-10	161713-02	163436-02	170564-02
Sample Type			Units	TOGS																										
Volatile Organic Compounds (cont'd)																														
Dichloroethene, cis-1,2-	µg/L	5 ^{-B}	6.88 ^B	14.5 ^B	5.57 ^B	4.53	4.71	8.12 ^B	2.00 U	2.00 U	2.00 U	1.09 J	2.00 U	2.00 U	2.32	2.00 U	26.6 ^B	360 D ^B	38.8 ^B	55.7 ^B	51.3 ^B	23.6 ^B	87.7 ^B	4.37	2.00 U	7.61 ^B	2.00 U	2.00 U	4.18	2.00 U
Dichloroethene, trans-1,2-	µg/L	5 ^{-B}	2.00 U	4.2 J	2.00 U	2.00 U	1.03 J	2.00 U	1.34 J	2.00 U	2.00 U	1.22 J	2.00 U	2.00 U	1.45 J	2.00 U	2.43	11.4 ^B	2.39	3.06	2.50	3.57	12.8 ^B	2.00 U	1.17 J	1.32 J	2.00 U	2.00 U	3.40	2.00 U
Dichloropropane, 1,2-	µg/L	1 ^B	2.00 U	5 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	5 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
Dichloropropene, cis-1,3-	µg/L	0.4 ^B	2.00 U	5 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	5 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
Dichloropropene, trans-1,3-	µg/L	0.4 ^B	2.00 U	5 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	5 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
Dioxane, 1,4-	µg/L	n/v	-	100 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U	20.0 U	20.0 UJ	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U R	-	100 U	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U	20.0 U	20.0 UJ	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U R
Ethylbenzene	µg/L	5 ^{-B}	2.00 U	5 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	5 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
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.0006 ^B	-	5 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	-	5 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
Hexanone, 2- (Methyl Butyl Ketone)	µg/L	50 ^A	5.00 U	25 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	25 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
Isopropylbenzene	µg/L	5 ^{-B}	-	5 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	-	5 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
Isopropyltoluene, p- (Cymene)	µg/L	5 ^{-B}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Acetate	µg/L	n/v	-	5 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	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	3.03 NJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	50 ^A	10.0 U	25 U	10.0 UJ	6.42 J	87.3 J ^A	9.42 NJ	57.3 J ^A	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	110 ^A	10.0 UJ	175 NJ ^A	29.3 J	38.1	10.2 J	10.0 UJ	10.0 U	10.0 U	27.0	10.0 U	10.0 U	10.0 U
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	5.00 U	25 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	25 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
Methyl tert-butyl ether (MTBE)	µg/L	10 ^A	-	5 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	-	2.4 J	1.08 J	1.61 NJ	2.00 U	1.92 J	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.28	2.00 U	2.00 U
Methylcyclohexane	µg/L	n/v	-	3.1 J	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	-	5 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
Methylene Chloride (Dichloromethane)	µg/L	5 ^{-B}	5.00 U	5 U	2.84 JB	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 U	3.76 JB	5.00 U	5.00 U	5.00 U	7.55 ^B	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Naphthalene	µg/L	10 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propylbenzene, n-	µg/L	5 ^{-B}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	5 ^{-B}	5.00 U	5 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 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
Tetrachloroethane, 1,1,2,2-	µg/L	5 ^{-B}	2.00 U	5 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	5 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
Tetrachloroethene (PCE)	µg/L	5 ^{-B}	6.72 ^B	3.6 J	5.35 ^B	10.1 ^B	6.14 ^B	2.65	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	110 ^B	4.44	3.08	1.42 J	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
Toluene	µg/L	5 ^{-B}	2.00 U	5 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	5 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
Trichlorobenzene, 1,2,3-	µg/L	5 ^{-B}	-	5 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 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
Trichlorobenzene, 1,2,4-	µg/L	5 ^{-B}	-	5 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 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
Trichloroethane, 1,1,1-	µg/L	5 ^{-B}	2.00 U	5 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	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U						

Table 2
Summary of Analytical Results in Groundwater
Remedial Investigation
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type			On-Site Building															
			RW-3															
			23-Mar-12	22-May-13	26-Mar-14	29-May-14	1-Jul-14	7-Aug-14	29-Oct-14	3-Feb-15	5-May-15	12-Aug-15	2-Feb-16	2-May-16	2-May-16	10-Aug-16	13-Feb-17	13-Feb-17
			RW-3	LI-RW-3-GW1	LI-RW-3	LI-RW-3-PI1	LI-RW-3-PI2	LI-RW-3-PI3	LI-RW3-PI6	LI-RW-3-PI9	LI-RW-3-PI12	LI-RW-3-PI15	LI-RW-3-PS3	LI-RW-3-PS6	LI-DUP-PS6	LI-RW-3-PS9	LI-RW-3-PS15	LI-FD-PS15
			DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
			PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH
			12:1239	E2342	141138	142196	142794	143439	144730	150382	151696	153411	160464	161713	161713	163436	170564	170564
			12:1239-03	E2342-01	141138-03	142196-11	142794-06	143439-03	144730-03	150382-03	151696-03	153411-03	160464-09	161713-03	161713-13	163436-03	170564-03	170564-13
	Units	TOGS												Field Duplicate				Field Duplicate
General Chemistry																		
Total Organic Carbon	µg/L	n/v	-	-	-	229,000	87,900	12,700	11,000	10,300	6,100	7,600 J-	218,000	7,080	6,840	8,280	2,820	2,580
Metals																		
Aluminum	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	µg/L	3 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	25 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	1,000 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	5 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	50 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	200 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	µg/L	300 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	25 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	µg/L	35,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	µg/L	300 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	0.7 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	100 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	10 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	50 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	20,000 ^B	-	-	-	252,000 ^B	199,000 ^B	103,000 ^B	125,000 ^B	120,000 ^B	85,300 ^B	91,100 J- ^B	-	-	-	-	-	-
Thallium	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds																		
Acetone	µg/L	50 ^A	10.0 U	25 U	10.0 U	132 ^A	43.2 J	47.6 J	10.0 U	10.0 UJ	10.0 U	10.0 UJ	20.2 J	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 UJ
Benzene	µg/L	1 ^B	0.700 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1.00 UJ	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U
Bromodichloromethane	µg/L	50 ^A	2.00 U	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	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 U	5.00 U	25.0 U	25.0 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 UJ	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	5 U	2.00 U	10.0 U	10.0 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U
Butylbenzene, n-	µg/L	5 ^{-B}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzene, sec- (2-Phenylbutane)	µg/L	5 ^{-B}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Butylbenzene, tert-	µg/L	5 ^{-B}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbon Disulfide	µg/L	60 ^A	2.00 U	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	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	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	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	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Chlorobromomethane	µg/L	5 ^{-B}	-	5 U	5.00 U	25.0 U	25.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	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	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	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 R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/L	7 ^B	3.78	3.9 J	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	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	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Cyclohexane	µg/L	n/v	-	5 U	10.0 U	50.0 U	50.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	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	-	5 U	10.0 U	50.0 U	50.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	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	5 U	2.00 U	10.0 U	10.0 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 UJ	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	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	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	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	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	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	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 U	2.00 U	10.0 U	10.0 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	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	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	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	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	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	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U

See notes on last page.

Table 2
Summary of Analytical Results in Groundwater
Remedial Investigation
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type			On-Site Building															
			RW-3															
			23-Mar-12	22-May-13	26-Mar-14	29-May-14	1-Jul-14	7-Aug-14	29-Oct-14	3-Feb-15	5-May-15	12-Aug-15	2-Feb-16	2-May-16	2-May-16	10-Aug-16	13-Feb-17	13-Feb-17
			RW-3	LI-RW-3-GW1	LI-RW-3	LI-RW-3-PI1	LI-RW-3-PI2	LI-RW-3-PI3	LI-RW3-PI6	LI-RW-3-PI9	LI-RW-3-PI12	LI-RW-3-PI15	LI-RW-3-PS3	LI-RW-3-PS6	LI-DUP-PS6	LI-RW-3-PS9	LI-RW-3-PS15	LI-FD-PS15
			DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
			PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH
			12:1239	E2342	141138	142196	142794	143439	144730	150382	151696	153411	160464	161713	161713	163436	170564	170564
			12:1239-03	E2342-01	141138-03	142196-11	142794-06	143439-03	144730-03	150382-03	151696-03	153411-03	160464-09	161713-03	161713-13	163436-03	170564-03	170564-13
	Units	TOGS													Field Duplicate			Field Duplicate
Volatile Organic Compounds (cont'd)																		
Dichloroethene, cis-1,2-	µg/L	5-- ^B	81.8 ^B	130 ^B	3.77	30.1 ^B	90.5 ^B	143 ^B	3.35	1.40 J	1.23 J	2.00 UJ	2.00 U	2.00 U	2.00 U	3.68	2.00 U	2.00 U
Dichloroethene, trans-1,2-	µg/L	5-- ^B	10.2 ^B	18.8 ^B	2.00 U	10.0 U	7.12 J ^B	3.16	4.47	6.02 ^B	3.63	4.29 J-	2.77	1.32 J	1.12 J	3.81	2.00 U	2.00 U
Dichloropropane, 1,2-	µg/L	1 ^B	2.00 U	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Dichloropropene, cis-1,3-	µg/L	0.4- ^B	2.00 U	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	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	2.00 U	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	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	-	100 U R	20.0 U R	100 U R	100 U R	20.0 U R	20.0 U	20.0 U	20.0 UJ	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U R
Ethylbenzene	µg/L	5-- ^B	2.00 U	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	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	-	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	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	25 U	5.00 U	25.0 U	25.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Isopropylbenzene	µg/L	5-- ^B	-	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl Acetate	µg/L	n/v	-	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.87	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	50 ^A	10.0 U	25 U	10.0 UJ	404 ^A	139 J ^A	60.0 ^A	10.0 UJ	10.0 UJ	10.0 U	10.0 UJ	27.7	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	25 U	5.00 U	25.0 U	25.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	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	-	7.1	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	3.43	2.12	2.04 J-	2.26	1.78 J	1.33 J	6.86	1.35 J	1.23 J
Methylcyclohexane	µg/L	n/v	-	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	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 U	4.04 JB	25.0 U	25.0 U	5.00 U	6.12 ^B	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Naphthalene	µg/L	10 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Propylbenzene, n-	µg/L	5-- ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	5-- ^B	5.00 U	5 U	5.00 U	25.0 U	25.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	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	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Tetrachloroethene (PCE)	µg/L	5-- ^B	2.81	7.8 ^B	2.36	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	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	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	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 U	5.00 U	25.0 U	25.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	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 U	5.00 U	25.0 U	25.0 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	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	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	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	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Trichloroethene (TCE)	µg/L	5-- ^B	125 ^B	320 D ^B	10.5 ^B	83.9 ^B	36.6 ^B	2.00 U	2.00 U	2.00 U	1.04 J	2.00 UJ	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	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	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	-	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	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	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Trimethylbenzene, 1,3,5-	µg/L	5-- ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Acetate	µg/L	n/v	5.00 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl Chloride	µg/L	2 ^B	2.00 U	3 J ^B	2.00 U	10.0 U	18.1 ^B	10.1 NJ ^B	22.5 ^B	4.14 NJ ^B	2.00 U	1.65 J-	2.00 U	2.00 U	2.00 U	5.39 NJ ^B	2.00 U	2.00 U
Xylene, m & p-	µg/L	5-- ^B	2.00 U	10 U	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	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	5 U	2.00 U	10.0 U	10.0 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U
Total VOC	µg/L	n/v	223.59	490.6	20.67	650	334.52	263.86	39.31	14.99	12.43	7.98 J-	52.93	3.10	2.45	19.74	1.35	1.23
VOC Tentatively Identified Compounds																		
Total VOC TICs	µg/L	n/v	-	2.5 U	-	-	-	-	-	-	-	-	-	-	-	-	-	-

See notes on last page.

Table 2
Summary of Analytical Results in Groundwater
Remedial Investigation
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area	Sample Location	Sample Date	Off-Site Locations																							
			RW-5														RW-6									
			25-Apr-12	21-May-13	27-Mar-14	29-May-14	2-Jul-14	7-Aug-14	28-Oct-14	3-Feb-15	4-May-15	13-Aug-15	1-Feb-16	3-May-16	10-Aug-16	14-Feb-17	25-Apr-12	4-May-12	20-May-13	27-Mar-14	28-May-14	1-Jul-14	7-Aug-14	7-Aug-14		
			RW-5	LI-RW-5-GW1	LI-RW-5	LI-RW-5-P11	LI-RW-5-P12	LI-RW-5-P13	LI-RW5-P16	LI-RW-5-P19	LI-RW-5-P112	LI-RW-5-P115	LI-RW-5-PS3	LI-RW-5-PS6	LI-RW-5-PS9	LI-RW-5-PS15	RW-6	RW-6	LI-RW-6-GW1	LI-RW-6	LI-RW-6-P11	LI-RW-6-P12	LI-RW-6-P13	LI-FD-P13		
Sample ID																										
Sampling Company			DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	DECI	DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC			
Laboratory			PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH			
Laboratory Work Order			12:1770	E2314	141138	142196	142794	143439	144730	150382	151696	153411	160464	161713	163436	170564	12:1770	12:1927	E2301	141138	142196	142794	143439			
Laboratory Sample ID			12:1770-02	E2314-06	141138-05	142196-14	142794-13	143439-05	144730-05	150382-04	151696-05	153411-09	160464-05	161713-05	163436-05	170564-05	12:1770-03	12:1927-01	E2301-01	141138-06	142196-02	142794-03	143439-06			
Sample Type	Units	TOGS																					Field Duplicate			
General Chemistry																										
Total Organic Carbon			µg/L	n/v	-	-	3,300	141,000	299,000	86,700	8,700	4,600 J	2,200	2,800 J-	4,990	2,490	3,690	1,780	-	-	-	3,400	360,000	96,600	99,700	102,000
Metals																										
Aluminum	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Antimony	µg/L	3 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	µg/L	25 ^B	-	-	10 U	10 U	10 U	10 U	10 U	10 U	10.0 U	10.0 UJ	-	-	-	-	-	-	-	10 U	10 U	10 U	10 U	-	-	
Barium	µg/L	1,000 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	µg/L	3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	µg/L	5 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Calcium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	µg/L	50 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	µg/L	200 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Iron	µg/L	300. ^B	-	-	100 U	2,500 ^B	6,250 ^B	6,000 ^B	4,420 ^B	4,760 ^B	9,910 ^B	7,480 J- ^B	-	-	-	-	-	-	-	318 ^B	1,140 ^B	1,740 ^B	850 ^B	-	-	
Lead	µg/L	25 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Magnesium	µg/L	35,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manganese	µg/L	300. ^B	-	-	69.2	69.1	102	60.4 B	47.8	25.7	29.8	38.9 J-	-	-	-	-	-	-	-	25.9	66.9	53.5	35.9	-	-	
Mercury	µg/L	0.7 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	µg/L	100 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Potassium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	10 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	µg/L	50 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	µg/L	20,000 ^B	-	-	39,500 ^B	242,000 ^B	312,000 ^B	164,000 ^B	85,200 ^B	66,600 ^B	44,600 ^B	50,500 J- ^B	-	-	-	-	-	-	-	37,800 ^B	266,000 ^B	167,000 ^B	163,000 ^B	178,000 ^B	-	
Thallium	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Volatile Organic Compounds																										
Acetone	µg/L	50 ^A	10.0 UJ	2.6 J	10.0 U	10.0 U	7.44 J	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 UJ	100 UJ	4.2 J	200 U	200 U	10.0 U	500 U	500 U		
Benzene	µg/L	1 ^B	1.13 J ^B	5 U	1 U	0.737 J	0.358 J	1 U	0.507 J	1 U	1 U	0.509 J-	1.00 U	1.00 U	0.741 J	1.00 U	0.700 UJ	7.00 U	5 U	20 U	20 U	1 U	50 U	50 U		
Bromodichloromethane	µg/L	50 ^A	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	20.0 U	5 U	40.0 U	40.0 U	2.00 U	100 U	100 U		
Bromoform (Tribromomethane)	µg/L	50 ^A	5.00 UJ	5 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	50.0 U	5 U	100 U	100 U	5.00 U	250 UJ	250 UJ		
Bromomethane (Methyl bromide)	µg/L	5.- ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 UJ	20.0 U	5 U	40.0 U	40.0 U	2.00 U	100 U	100 U		
Butylbenzene, n-	µg/L	5.- ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Butylbenzene, sec- (2-Phenylbutane)	µg/L	5.- ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Butylbenzene, tert-	µg/L	5.- ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Disulfide	µg/L	60 ^A	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	20.0 UJ	5 U	40.0 U	40.0 U	2.00 U	100 U	100 U		
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5 ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	20.0 U	5 U	40.0 U	40.0 U	2.00 U	100 U	100 U		
Chlorobenzene (Monochlorobenzene)	µg/L	5.- ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	20.0 U	5 U	40.0 U	40.0 U	2.00 U	100 U	100 U		
Chlorobromomethane	µg/L	5.- ^B	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	-	5 U	100 U	100 U	5.00 U	250 U	250 U		
Chloroethane (Ethyl Chloride)	µg/L	5.- ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	20.0 U	5 U	40.0 U	40.0 U	2.00 U	100 U	100 U		
Chloroethyl Vinyl Ether, 2-	µg/L	n/v	10.0 U R	-	-	-	-	-	-	-	-	-	-	-	-	-	10.0 U R	100 U R	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/L	7 ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	20.0 U	5 U	40.0 U	40.0 U	2.00 U	100 U	100 U		
Chloromethane	µg/L	5.- ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	20.0 U	5 U	40.0 U	40.0 U	2.00 U	100 U	100 U		
Cyclohexane	µg/L	n/v	-	5 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	-	-	5 UJ	200 U	200 U	10.0 U	500 U	500 U		
Dibromo-3-Chloropropane, 1,2- (DBCP)	µg/L	0.04 ^B	-	5 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	-	-								

Table 2
Summary of Analytical Results in Groundwater
Remedial Investigation
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type			µg/L	n/v	Off-Site Locations																						
					RW-5										RW-6												
					25-Apr-12	21-May-13	27-Mar-14	29-May-14	2-Jul-14	7-Aug-14	28-Oct-14	3-Feb-15	4-May-15	13-Aug-15	1-Feb-16	3-May-16	10-Aug-16	14-Feb-17	25-Apr-12	4-May-12	20-May-13	27-Mar-14	28-May-14	1-Jul-14	7-Aug-14	7-Aug-14	
					LI-RW-5-GW1	LI-RW-5	LI-RW-5-P11	LI-RW-5-P12	LI-RW-5-P13	LI-RW5-P16	LI-RW-5-P19	LI-RW-5-P112	LI-RW-5-P115	LI-RW-5-PS3	LI-RW-5-PS6	LI-RW-5-PS9	LI-RW-5-PS15	RW-6	RW-6	LI-RW-6-GW1	LI-RW-6	LI-RW-6-P11	LI-RW-6-P12	LI-RW-6-P13	LI-FD-P13		
			TOGS																					Field Duplicate			
Volatile Organic Compounds (cont'd)																											
Dichloroethene, cis-1,2-	µg/L	5-- ^B	49.5 J ^B	18.2 ^B	7.64 ^B	32.7 ^B	45.7 ^B	46.0 ^B	132 ^B	8.81 ^B	4.52	56.7 J- ^B	2.00 U	2.00 U	50.7 ^B	2.00 U	59.8 J ^B	63.1 ^B	47.3 ^B	81.9 ^B	670 ^B	86.7 ^B	3,980 ^B	4,070 ^B			
Dichloroethene, trans-1,2-	µg/L	5-- ^B	5.63 J ^B	2.2 J	1.10 J	2.92	1.89 J	1.32 J	3.78	2.00 U	2.00 U	2.09 J-	2.00 U	2.00 U	2.62	2.00 U	2.00 UJ	20.0 U	1.1 J	40.0 U	76.1 ^B	3.31	76.6 J ^B	77.6 J ^B			
Dichloropropane, 1,2-	µg/L	1 ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	20.0 U	5 U	40.0 U	40.0 U	2.00 U	100 U	100 U			
Dichloropropene, cis-1,3-	µg/L	0.4- ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	20.0 U	5 U	40.0 U	40.0 U	2.00 U	100 U	100 U			
Dichloropropene, trans-1,3-	µg/L	0.4- ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	20.0 U	5 U	40.0 U	40.0 U	2.00 U	100 U	100 U			
Dioxane, 1,4-	µg/L	n/v	-	100 U	20.0 U R	20.0 U R	20.0 U R	20.0 U	20.0 U	20.0 UJ	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U R	-	-	100 U R	400 U R	400 U R	20.0 U R	1,000 U R	1,000 U R			
Ethylbenzene	µg/L	5-- ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	20.0 U	5 U	40.0 U	40.0 U	2.00 U	100 U	100 U			
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.0006 ^B	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	-	-	5 U	40.0 U	40.0 U	2.00 U	100 U	100 U			
Hexanone, 2- (Methyl Butyl Ketone)	µg/L	50 ^A	5.00 UJ	25 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	50.0 U	25 U	100 U	100 U	5.00 U	250 U	250 U			
Isopropylbenzene	µg/L	5-- ^B	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	-	-	5 U	40.0 U	40.0 U	2.00 U	100 U	100 U			
Isopropyltoluene, p- (Cymene)	µg/L	5-- ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Methyl Acetate	µg/L	n/v	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	-	-	5 U	40.0 U	40.0 U	2.00 U	100 U	100 U			
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	50 ^A	10.0 UJ	25 U	10.0 UJ	10.0 U	43.1 J	10.8	10.0 UJ	10.0 UJ	10.0 U	10.0 UJ	26.1	10.0 U	10.0 U	10.0 U	10.0 UJ	100 U	25 U	200 UJ	200 U	13.3 J	500 U	500 U			
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	5.00 UJ	25 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	50.0 U	25 U	100 U	100 U	5.00 U	250 U	250 U			
Methyl tert-butyl ether (MTBE)	µg/L	10 ^A	-	1.3 J	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	-	-	2.1 J	40.0 U	40.0 U	1.03 J	100 U	100 U			
Methylcyclohexane	µg/L	n/v	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	-	-	5 U	40.0 U	40.0 U	2.00 U	100 U	100 U			
Methylene Chloride (Dichloromethane)	µg/L	5-- ^B	5.00 UJ	5 U	4.53 JB	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	50.0 UJ	5 U	100 U	56.8 J ^B	5.00 U	250 U	250 U			
Naphthalene	µg/L	10 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Propylbenzene, n-	µg/L	5-- ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Styrene	µg/L	5-- ^B	5.00 UJ	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	50.0 U	5 U	100 U	100 U	5.00 U	250 U	250 U			
Tetrachloroethane, 1,1,2,2-	µg/L	5-- ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	20.0 U	5 U	40.0 U	40.0 U	2.00 U	100 U	100 U			
Tetrachloroethene (PCE)	µg/L	5-- ^B	12.2 J ^B	5.6 ^B	2.75	11.2 ^B	2.44	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	881 J ^B	732 ^B	880 D ^B	3,380 ^B	84.6 ^B	3.26	100 U	100 U			
Toluene	µg/L	5-- ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	20.0 U	5 U	40.0 U	40.0 U	2.00 U	100 U	100 U			
Trichlorobenzene, 1,2,3-	µg/L	5-- ^B	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	-	-	5 U	100 U	100 U	5.00 U	250 U	250 U			
Trichlorobenzene, 1,2,4-	µg/L	5-- ^B	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	-	-	5 U	100 U	100 U	5.00 U	250 U	250 U			
Trichloroethane, 1,1,1-	µg/L	5-- ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	20.0 U	5 U	40.0 U	40.0 U	2.00 U	100 U	100 U			
Trichloroethane, 1,1,2-	µg/L	1 ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	20.0 U	5 U	40.0 U	40.0 U	2.00 U	100 U	100 U			
Trichloroethene (TCE)	µg/L	5-- ^B	48.5 J ^B	25.2 ^B	6.65 ^B	40.0 ^B	14.2 ^B	1.10 J	2.76	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	112 J ^B	93.2 ^B	140 ^B	283 ^B	752 ^B	35.8 ^B	100 U	100 U			
Trichlorofluoromethane (Freon 11)	µg/L	5-- ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	20.0 U	5 U	40.0 U	40.0 U	2.00 U	100 U	100 U			
Trichlorotrifluoroethane (Freon 113)	µg/L	5-- ^B	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	-	-	5 U	40.0 U	40.0 U	2.00 U	100 U	100 U			
Trimethylbenzene, 1,2,4-	µg/L	5-- ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Trimethylbenzene, 1,3,5-	µg/L	5-- ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Vinyl Acetate	µg/L	n/v	5.00 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	5.00 UJ	50.0 U	-	-	-	-	-	-			
Vinyl Chloride	µg/L	2 ^B	2.93 J ^B	0.6 J	2.00 U	2.00 U	1.28 NJ	3.76 ^B	12.8 ^B	2.30 NJ ^B	2.00 U	16.0 J- ^B	1.52 J	2.00 U	53.4 ^B	2.00 U	2.00 UJ	20.0 U	0.52 NJ	40.0 U	40.0 U	2.00 U	115 ^B	116 ^B			
Xylene, m & p-	µg/L	5-- ^B	2.00 UJ	10 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	20.0 U	10 U	40.0 U	40.0 U	2.00 U	100 U	100 U			
Xylene, o-	µg/L	5-- ^B	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	20.0 UJ	5 U	40.0 U	40.0 U	2.00 U	100 U	100 U			
Total VOC	µg/L	n/v	119.89	55.7	22.67	87.557	116.408	62.98	151.85	11.11	6.13	75.299 J-	27.62	ND	107.461	ND	1,052.8	888.3	1,075.22	3,744.9	1,639.5	143.4	4,171.6	4,263.6			
VOC Tentatively Identified Compounds																											
Total VOC TICs	µg/L	n/v	-	5,500 J	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,800 J	-	-	-	-	-	-		

See notes on last page.

Table 2
Summary of Analytical Results in Groundwater
Remedial Investigation
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type			Off-Site Locations																								
			RW-6								RW-7								RW-8								
			28-Oct-14	4-Feb-15	4-May-15	13-Aug-15	1-Feb-16	3-May-16	9-Aug-16	14-Feb-17	12-Jun-12	20-May-13	27-Mar-14	28-May-14	1-Jul-14	7-Aug-14	28-Oct-14	4-Feb-15	4-May-15	13-Aug-15	1-Feb-16	3-May-16	9-Aug-16	14-Feb-17	14-Jun-12	20-May-13	
			LI-RW6-PI6	LI-RW-6-PI9	LI-RW-6-PI12	LI-RW-6-PI15	LI-RW-6-PS3	LI-RW-6-PS6	LI-RW-6-PS9	LI-RW-6-PS15	RW-7	LI-RW-7-GW1	LI-RW-7	LI-RW-7-PI1	LI-RW-7-PI2	LI-RW-7-PI3	LI-RW7-PI6	LI-RW-7-PI9	LI-RW-7-PI12	LI-RW-7-PI15	LI-RW-7-PS3	LI-RW-7-PS6	LI-RW-7-PS9	LI-RW-7-PS15	RW-8	LI-RW-8-GW1	
			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	DECI	STANTEC	
			PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	12:2486	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	CCGE
			144730-06	150382-09	151696-06	153411-10	160464-02	161713-06	163436-06	170564-06	12:2486-02	E2301-02	141138-07	142196-01	142794-02	143439-07	144730-07	150382-10	151696-07	153411-11	160464-03	161713-07	163436-07	170564-07	12:2523-01	E2301-03	
Units	TOGS																										
General Chemistry																											
Total Organic Carbon	µg/L	n/v	62,900	14,000	3,000	2,800 J-	120,000	3,410	2,090	2,090	-	-	-	86,900	7,500	11,500	8,800	2,500 J	3,100	2,600 J-	21,100	2,720	3,680	1,530	-	-	
Metals																											
Aluminum	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Antimony	µg/L	3 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	µg/L	25 ^B	10 U	10 U	10.0 U	10.0 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	µg/L	1,000 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	µg/L	3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	µg/L	5 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Calcium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	µg/L	50 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	µg/L	200 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Iron	µg/L	300 ^B	1,820 ^B	1,480 ^B	864 ^B	1,240 J ^{-B}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	µg/L	25 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Magnesium	µg/L	35,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manganese	µg/L	300 ^B	38.7	34.7	30.9	32.2 J-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mercury	µg/L	0.7 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	µg/L	100 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Potassium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	10 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	µg/L	50 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	µg/L	20,000 ^B	149,000 ^B	91,700 ^B	68,800 ^B	63,200 J ^{-B}	-	-	-	-	-	-	126,000 ^B	85,200 ^B	85,600 ^B	77,500 ^B	67,100 ^B	49,900 ^B	64,400 J ^{-B}	-	-	-	-	-	-	-	
Thallium	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Volatile Organic Compounds																											
Acetone	µg/L	50 ^A	500 U	50.0 UJ	50.0 U	50.0 UJ	100 U	100 U	100 U	20.0 UJ	-	25 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 UJ	-	25 U	
Benzene	µg/L	1 ^B	50 U	5 U	5 U	5.00 UJ	10.0 U	10.0 U	10.0 U	2.00 U	-	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1.00 UJ	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	-	5 U	
Bromodichloromethane	µg/L	50 ^A	100 U	10.0 U	10.0 U	10.0 UJ	20.0 U	20.0 U	20.0 U	4.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	
Bromoform (Tribromomethane)	µg/L	50 ^A	250 U	25.0 U	25.0 U	25.0 UJ	50.0 U	50.0 U	50.0 U	10.0 U	5.00 U	5 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5 U	
Bromomethane (Methyl bromide)	µg/L	5 ^{-B}	100 U	10.0 U	10.0 U	10.0 UJ	20.0 U	20.0 UJ	20.0 U	4.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 UJ	5 U	5 U	
Butylbenzene, n-	µg/L	5 ^{-B}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Butylbenzene, sec- (2-Phenylbutane)	µg/L	5 ^{-B}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Butylbenzene, tert-	µg/L	5 ^{-B}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Disulfide	µg/L	60 ^A	100 U	10.0 U	10.0 U	10.0 UJ	20.0 U	20.0 U	20.0 U	4.00 U	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	5 U	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5 ^B	100 U	10.0 U	10.0 U	10.0 UJ	20.0 U	20.0 U	20.0 U	4.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	5 U	
Chlorobenzene (Monochlorobenzene)	µg/L	5 ^{-B}	100 U	10.0 U	10.0 U	10.0 UJ	20.0 U	20.0 U	20.0 U	4.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	
Chlorobromomethane	µg/L	5 ^{-B}	250 U	25.0 U	25.0 U	25.0 UJ	50.0 U	50.0 U	50.0 U	10.0 U	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	-	5 U	
Chloroethane (Ethyl Chloride)	µg/L	5 ^{-B}	100 U	10.0 U	10.0 U	10.0 UJ	20.0 U	20.0 U	20.0 U	4.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	
Chloroethyl Vinyl Ether, 2-	µg/L	n/v	-	-	-	-	-	-	-	-	10.0 U R	-	-	-	-	-	-	-	-	-	-	-	-	-	10.0 U R	-	
Chloroform (Trichloromethane)	µg/L	7 ^B	100 U	10.0 U	10.0 U	10.0 UJ	20.0 U	20.0 U	20.0 U	4.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	
Chloromethane	µg/L	5 ^{-B}	100 U	10.0 U	10.0 U	10.0 UJ	20.0 U	20.0 U	20.0 U	4.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	
Cyclohexane	µg/L	n/v	500 U	50.0 U	50.0 U	50.0 UJ	100 U	100 U	100 U	20.0 U	-	5 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	-	5 UJ	
Dibromo-3-Chloropropane, 1,2- [DBCP]	µg/L	0.04 ^B	500 U	50.0 U	50.0 U																						

Table 2
Summary of Analytical Results in Groundwater
Remedial Investigation
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area				Off-Site Locations																							
Sample Location				RW-6										RW-7										RW-8			
Sample Date				28-Oct-14	4-Feb-15	4-May-15	13-Aug-15	1-Feb-16	3-May-16	9-Aug-16	14-Feb-17	12-Jun-12	20-May-13	27-Mar-14	28-May-14	1-Jul-14	7-Aug-14	28-Oct-14	4-Feb-15	4-May-15	13-Aug-15	1-Feb-16	3-May-16	9-Aug-16	14-Feb-17	14-Jun-12	20-May-13
Sample ID				LI-RW-6-PI6	LI-RW-6-PI9	LI-RW-6-PI12	LI-RW-6-PI15	LI-RW-6-PS3	LI-RW-6-PS6	LI-RW-6-PS9	LI-RW-6-PS15	RW-7	LI-RW-7-GW1	LI-RW-7	LI-RW-7-P11	LI-RW-7-P12	LI-RW-7-P13	LI-RW7-PI6	LI-RW-7-PI9	LI-RW-7-PI12	LI-RW-7-PI15	LI-RW-7-PS3	LI-RW-7-PS6	LI-RW-7-PS9	LI-RW-7-PS15	RW-8	LI-RW-8-GW1
Sampling Company		STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	DECI	STANTEC		
Laboratory		PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	CCGE		
Laboratory Work Order		144730	150382	151696	153411	160464	161713	163436	170564	12:2486	E2301	141138	142196	142794	143439	144730	150382	151696	153411	160464	161713	163436	170564	12:2523	E2301		
Laboratory Sample ID		144730-06	150382-09	151696-06	153411-10	160464-02	161713-06	163436-06	170564-06	12:2486-02	E2301-02	141138-07	142196-01	142794-02	143439-07	144730-07	150382-10	151696-07	153411-11	160464-03	161713-07	163436-07	170564-07	12:2523-01	E2301-03		
Sample Type		Units	TOGS																								
Volatile Organic Compounds (cont'd)																											
Dichloroethene, cis-1,2-	µg/L	5-- ^B	2,730 ^B	687 ^B	373 ^B	164 J- ^B	1,520 ^B	1,910 ^B	344 ^B	277 ^B	4.28	8.2 ^B	2.35	2.65	2.43	2.96	4.44	1.33 J	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	6.50 ^B	17.8 ^B	
Dichloroethene, trans-1,2-	µg/L	5-- ^B	100 U	6.64 J ^B	6.18 J ^B	10.0 UJ	11.5 J ^B	18.0 J ^B	20.0 U	4.00 U	2.00 U	0.92 J	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.1 J	
Dichloropropane, 1,2-	µg/L	1 ^B	100 U	10.0 U	10.0 U	10.0 UJ	20.0 U	20.0 U	20.0 U	4.00 U	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	
Dichloropropene, cis-1,3-	µg/L	0.4- ^B	100 U	10.0 U	10.0 U	10.0 UJ	20.0 U	20.0 U	20.0 U	4.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	
Dichloropropene, trans-1,3-	µg/L	0.4- ^B	100 U	10.0 U	10.0 U	10.0 UJ	20.0 U	20.0 U	20.0 U	4.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	
Dioxane, 1,4-	µg/L	n/v	1,000 U	100 U	100 UJ	100 U R	200 U R	200 U R	200 U R	40.0 U R	-	100 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U	20.0 U	20.0 UJ	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U R	-	100 U R	
Ethylbenzene	µg/L	5-- ^B	100 U	10.0 U	10.0 U	10.0 UJ	20.0 U	20.0 U	20.0 U	4.00 U	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	5 U	
Ethylene Dibromide (Dibromoethane, 1,2-)	µg/L	0.0006 ^B	100 U	10.0 U	10.0 U	10.0 UJ	20.0 U	20.0 U	20.0 U	4.00 U	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	5 U	
Hexanone, 2- (Methyl Butyl Ketone)	µg/L	50 ^A	250 U	25.0 U	25.0 U	25.0 UJ	50.0 U	50.0 U	50.0 U	10.0 U	-	25 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	-	25 U	
Isopropylbenzene	µg/L	5-- ^B	100 U	10.0 U	10.0 U	10.0 UJ	20.0 U	20.0 U	20.0 U	4.00 U	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	5 U	
Isopropyltoluene, p- (Cymene)	µg/L	5-- ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Methyl Acetate	µg/L	n/v	100 U	10.0 U	10.0 U	10.0 UJ	20.0 U	20.0 U	20.0 U	4.00 U	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	5 U	
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	50 ^A	500 UJ	50.0 UJ	50.0 U	50.0 UJ	200 U	100 U	100 U	20.0 U	-	25 U	10.0 UJ	10.0 U	10.0 UJ	10.0 U	10.0 UJ	10.0 UJ	10.0 UJ	25.2	10.0 U	10.0 U	10.0 U	10.0 U	-	25 U	
Methyl Isobutyl Ketone (MIBK)	µg/L	n/v	250 U	25.0 U	25.0 U	25.0 UJ	50.0 U	50.0 U	50.0 U	10.0 U	-	25 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	-	25 U	
Methyl tert-butyl ether (MTBE)	µg/L	10 ^A	100 U	10.0 U	10.0 U	10.0 UJ	20.0 U	20.0 U	20.0 U	4.00 U	-	1.8 J	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	1.16 J-	1.43 J	1.41 J	2.38	1.12 J	-	3.3 J	
Methylcyclohexane	µg/L	n/v	100 U	10.0 U	10.0 U	10.0 UJ	20.0 U	20.0 U	20.0 U	4.00 U	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	5 U	
Methylene Chloride (Dichloromethane)	µg/L	5-- ^B	250 U	25.0 U	25.0 U	25.0 UJ	50.0 U	50.0 U	50.0 U	10.0 U	5.00 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5 U	
Naphthalene	µg/L	10 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Propylbenzene, n-	µg/L	5-- ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Styrene	µg/L	5-- ^B	250 U	25.0 U	25.0 U	25.0 UJ	50.0 U	50.0 U	50.0 U	10.0 U	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	-	5 U	
Tetrachloroethane, 1,1,2,2-	µg/L	5-- ^B	100 U	10.0 U	10.0 U	10.0 UJ	20.0 U	20.0 U	20.0 U	4.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	
Tetrachloroethene (PCE)	µg/L	5-- ^B	100 U	10.0 U	10.0 U	10.0 UJ	20.0 U	20.0 U	20.0 U	5.58 ^B	2.00 U	0.76 J	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	4.3 J	
Toluene	µg/L	5-- ^B	100 U	10.0 U	10.0 U	10.0 UJ	20.0 U	20.0 U	20.0 U	4.00 U	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	5 U	
Trichlorobenzene, 1,2,3-	µg/L	5-- ^B	250 U	25.0 U	25.0 U	25.0 UJ	50.0 U	50.0 U	50.0 U	10.0 U	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	-	5 U	
Trichlorobenzene, 1,2,4-	µg/L	5-- ^B	250 U	25.0 U	25.0 U	25.0 UJ	50.0 U	50.0 U	50.0 U	10.0 U	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	-	5 U	
Trichloroethane, 1,1,1-	µg/L	5-- ^B	100 U	10.0 U	10.0 U	10.0 UJ	20.0 U	20.0 U	20.0 U	4.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	
Trichloroethane, 1,1,2-	µg/L	1 ^B	100 U	10.0 U	10.0 U	10.0 UJ	20.0 U	20.0 U	20.0 U	4.00 U	2.00 UJ	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	
Trichloroethene (TCE)	µg/L	5-- ^B	100 U	10.0 U	10.0 U	10.0 UJ	20.0 U	20.0 U	20.0 U	22.2 ^B	2.00 U	5.8 ^B	2.85	2.99	3.05	3.12	2.00 U	2.00 U	1.29 J	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	7.59 ^B	20.7 ^B	
Trichlorofluoromethane (Freon 11)	µg/L	5-- ^B	100 U	10.0 U	10.0 U	10.0 UJ	20.0 U	20.0 U	20.0 U	4.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	5 U	
Trichlorotrifluoroethane (Freon 113)	µg/L	5-- ^B	100 U	10.0 U	10.0 U	10.0 UJ	20.0 U	20.0 U	20.0 U	4.00 U	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	5 U	
Trimethylbenzene, 1,2,4-	µg/L	5-- ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Trimethylbenzene, 1,3,5-	µg/L	5-- ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-											

Table 2
Summary of Analytical Results in Groundwater
Remedial Investigation
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area Sample Location Sample Date				Off-Site Locations																									
				RW-9																RW-12									
Sample ID		8-Jun-12	21-May-13	27-Mar-14	29-May-14	1-Jul-14	1-Jul-14	7-Aug-14	28-Oct-14	28-Oct-14	4-Feb-15	4-May-15	13-Aug-15	1-Feb-16	2-May-16	9-Aug-16	9-Aug-16	14-Feb-17	8-Jun-12	20-May-13	28-May-14	2-Jul-14	7-Aug-14	29-Oct-14	4-Feb-15	4-May-15	12-Aug-15		
Sampling Company		RW-9	LI-RW-9-GW1	LI-RW-9	LI-RW-9-PI1	LI-RW-9-PI2	LI-RW-DUP-PI2	LI-RW-9-PI3	LI-RW9-PI6	LI-DUP-PI6	LI-RW-9-PI9	LI-RW-9-PI12	LI-RW-9-PI15	LI-RW-9-PS3	LI-RW-9-PS6	LI-RW-9-PS9	LI-DUP-PS9	LI-RW-9-PS15	RW-12	LI-RW-12-GW1	LI-RW-12-PI1	LI-RW-12-PI2	LI-RW-12-PI3	LI-RW12-PI6	LI-RW-12-PI9	LI-RW-12-PI12	LI-RW-12-PI15		
Laboratory		DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC		
Laboratory Work Order		PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH		
Laboratory Sample ID		12:2431-01	E2314-07	141138-08	142196-12	142794-04	142794-05	143439-08	144730-08	144730-13	150382-12	151696-08	153411-12	160464-04	161713-08	163436-08	163436-13	170564-08	12:2431-02	E2301-04	142196-03	142794-14	143439-09	144730-09	150382-08	151696-09	153411-08		
Sample Type		Units	TOGS				Field Duplicate			Field Duplicate							Field Duplicate												
General Chemistry																													
Total Organic Carbon		µg/L	n/v	-	-	2,000	2,000	2,500	2,100	2,100	2,000 J-	2,000 J-	2,400 J	1,700	2,200 J-	1,910	2,340	2,640	2,650	1,980	-	-	103,000	186,000	44,800	5,700	33,900	6,200	3,200 J-
Metals																													
Aluminum	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Antimony	µg/L	3 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	µg/L	25 ^B	-	-	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10.0 U	10.0 UJ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	µg/L	1,000 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	µg/L	3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	µg/L	5 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Calcium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	µg/L	50 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	µg/L	200 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Iron	µg/L	300. ^B	-	-	100 U	91.9 J	129	91.0 J	86.4 J	100 U	100 U	68.3 J	76.5 J	118 J-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	µg/L	25 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Magnesium	µg/L	35,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manganese	µg/L	300. ^B	-	-	15 U	19.8	98.1	94.4	220	153	161	284	214	691 J- ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mercury	µg/L	0.7 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	µg/L	100 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Potassium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	10 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	µg/L	50 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	µg/L	20,000 ^B	-	-	38,100 ^B	25,200 ^B	29,000 ^B	28,800 ^B	27,700 ^B	39,100 ^B	38,600 ^B	41,600 ^B	32,000 ^B	49,000 J- ^B	-	-	-	-	-	-	-	200,000 ^B	255,000 ^B	282,000 ^B	193,000 ^B	167,000 ^B	213,000 ^B	155,000 J- ^B	
Thallium	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Volatile Organic Compounds																													
Acetone	µg/L	50 ^A	-	25 U	10.0 U	6.70 J	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	-	25 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 UJ	
Benzene	µg/L	1 ^B	-	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1.00 UJ	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	-	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1.00 UJ	
Bromodichloromethane	µg/L	50 ^A	2.00 U	5 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 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	
Bromoform (Tribromomethane)	µg/L	50 ^A	5.00 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 UJ	
Bromomethane (Methyl bromide)	µg/L	5.- ^B	2.00 U	5 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	
Butylbenzene, n-	µg/L	5.- ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Butylbenzene, sec- (2-Phenylbutane)	µg/L	5.- ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Butylbenzene, tert-	µg/L	5.- ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Disulfide	µg/L	60 ^A	-	5 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 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	
Carbon Tetrachloride (Tetrachloromethane)	µg/L	5 ^B	2.00 U	5 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 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	
Chlorobenzene (Monochlorobenzene)	µg/L	5.- ^B	2.00 U	5 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 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	
Chlorobromomethane	µg/L	5.- ^B	-	5 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 UJ	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	-	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	
Chloroethane (Ethyl Chloride)	µg/L	5.- ^B	2.00 U	5 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 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	
Chloroethyl Vinyl Ether, 2-	µg/L	n/v	10.0 U R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.0 U R	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/L	7 ^B	2.00 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U																				

Table 2
Summary of Analytical Results in Groundwater
Remedial Investigation
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area			Off-Site Locations								QA/QC															
Sample Location			RW-12					RW-13			Trip Blank															
Sample Date			1-Feb-16	1-Feb-16	3-May-16	9-Aug-16	14-Feb-17	12-Jun-12	20-May-13	27-Mar-14	12-Jun-12	20-May-13	21-May-13	27-Mar-14	29-May-14	1-Jul-14	8-Aug-14	28-Oct-14	3-Feb-15	4-May-15	12-Aug-15	1-Feb-16	2-May-16	9-Aug-16	13-Feb-17	
Sample ID			LI-RW-12-PS3	LI-DUP-PS3	LI-RW-12-PS6	LI-RW-12-PS9	LI-RW-12-PS15	RW-13	LI-RW-13-GW1	LI-RW-13	Trip Blank 7346	Trip Blank	Trip Blank	Trip Blank	LI-Trip Blank-PI1	LI-TRIPBLANK-PI2	Trip Blank (T-532)	Trip Blank (T-570)	LI-TRIPBLANK-PI9 (T-586)	Trip Blank (T-614)	Trip Blank (T-644)	Trip Blank T-691	Trip Blank (T-698)	Trip Blank (T-722)	Trip Blank	
Sampling Company			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	DECI	STANTEC	STANTEC	DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	
Laboratory			PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	CCGE	PARAROCH	PARAROCH	CCGE	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	
Laboratory Work Order			160464	160464	161713	163436	170564	12:2486	E2301	141138	12:2486	E2301	E2314	141138	142196	142794	143439	144730	150382	151696	153411	160464	161713	163436	170564	
Laboratory Sample ID			160464-01	160464-13	161713-09	163436-09	170564-09	12:2486-01	E2301-05	141138-10	12:2486-03	E2301-07	E2314-08	141138-15	142196-08	142794-01	143439-14	144730-14	150382-14	151696-14	153411-14	160464-14	161713-14	163436-14	170564-14	
Sample Type	Units	TOGS		Field Duplicate							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	

General Chemistry																										
Total Organic Carbon	µg/L	n/v	1,740	1,990	2,480	1,480	1,460	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Metals																										
Aluminum	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Antimony	µg/L	3 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Arsenic	µg/L	25 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Barium	µg/L	1,000 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Beryllium	µg/L	3 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cadmium	µg/L	5 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Calcium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium	µg/L	50 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Cobalt	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Copper	µg/L	200 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Iron	µg/L	300 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lead	µg/L	25 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Magnesium	µg/L	35,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Manganese	µg/L	300 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mercury	µg/L	0.7 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nickel	µg/L	100 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Potassium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Selenium	µg/L	10 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Silver	µg/L	50 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sodium	µg/L	20,000 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Thallium	µg/L	0.5 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Vanadium	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zinc	µg/L	2,000 ^A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Volatile Organic Compounds																										
Acetone	µg/L	50 ^A	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	-	25 U	10.0 U	-	25 U	25 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 U	10.0 UJ	10.0 UJ	10.0 U	10.0 U	10.0 UJ	
Benzene	µg/L	1 ^B	1.00 U	1.00 U	1.00 U	1.00 U	1.00 U	-	5 U	1 U	-	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1.00 UJ	1.00 UJ	1.00 UJ	1.00 U	1.00 U	1.00 U	
Bromodichloromethane	µg/L	50 ^A	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	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 U	5.00 U	5.00 U	5 U	5 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 UJ	5.00 U	5.00 U	5.00 U	
Bromomethane (Methyl bromide)	µg/L	5 ^{-B}	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	5 U	2.00 U	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 UJ	2.00 U	2.00 U	
Butylbenzene, n-	µg/L	5 ^{-B}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Butylbenzene, sec- (2-Phenylbutane)	µg/L	5 ^{-B}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Butylbenzene, tert-	µg/L	5 ^{-B}	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Carbon Disulfide	µg/L	60 ^A	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	5 U	2.00 U	-	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	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	5 U	2.00 U	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	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	5 U	2.00 U	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	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 U	5.00 U	-	5 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 UJ	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	5 U	2.00 U	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U	
Chloroethyl Vinyl Ether, 2-	µg/L	n/v	-	-	-	-	-	10.0 U R	-	-	10.0 U R	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chloroform (Trichloromethane)	µg/L	7 ^B	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	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	5 U	2.00 U	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	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	-	5 UJ	10.0 U	-	5 UJ	5 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 UJ	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	-	5 U	10.0 U	-	5 U	5 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 UJ	10.0 UJ	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	5 U	2.00 U	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	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	5 U	2.00 U	2.00 U	5 U	5 U													

Table 2
Summary of Analytical Results in Groundwater
Remedial Investigation
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Area Sample Location Sample Date Sample ID Sampling Company Laboratory Laboratory Work Order Laboratory Sample ID Sample Type			Off-Site Locations									QA/QC														
												Trip Blank														
			RW-12			RW-13																				
			1-Feb-16	1-Feb-16	3-May-16	9-Aug-16	14-Feb-17	12-Jun-12	20-May-13	27-Mar-14	12-Jun-12	20-May-13	21-May-13	27-Mar-14	29-May-14	1-Jul-14	8-Aug-14	28-Oct-14	3-Feb-15	4-May-15	12-Aug-15	1-Feb-16	2-May-16	9-Aug-16	13-Feb-17	
			LI-RW-12-PS3	LI-DUP-PS3	LI-RW-12-PS6	LI-RW-12-PS9	LI-RW-12-PS15	RW-13	LI-RW-13-GW1	LI-RW-13	Trip Blank 7346	Trip Blank	Trip Blank	Trip Blank	LI-Trip Blank-PI1	LI-TRIPBLANK-PI2	Trip Blank (T-532)	Trip Blank (T-570)	LI-TRIPBLANK-PI9 (T-586)	Trip Blank (T-614)	Trip Blank (T-644)	Trip Blank T-691	Trip Blank (T-698)	Trip Blank (T-722)	Trip Blank	
			STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	DECI	STANTEC	STANTEC	DECI	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	
			PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	CCGE	PARAROCH	PARAROCH	CCGE	CCGE	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	
			160464	160464	161713	163436	170564	12:2486	E2301	141138	12:2486	E2301	E2314	141138	142196	142794	143439	144730	150382	151696	153411	160464	161713	163436	170564	
			160464-01	160464-13	161713-09	163436-09	170564-09	12:2486-01	E2301-05	141138-10	12:2486-03	E2301-07	E2314-08	141138-15	142196-08	142794-01	143439-14	144730-14	150382-14	151696-14	153411-14	160464-14	161713-14	163436-14	170564-14	
			Units	TOGS																						
Volatile Organic Compounds (cont'd)																										
Dichloroethene, cis-1,2-	µg/L	5-- ^B	3.65	3.89	2.44	1.59 J	2.00 U	2.00 U	5 U	2.00 U	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U		
Dichloroethene, 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	5 U	2.00 U	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	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	5 U	2.00 U	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U		
Dichloropropene, cis-1,3-	µg/L	0.4- ^B	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U		
Dichloropropene, trans-1,3-	µg/L	0.4- ^B	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U		
Dioxane, 1,4-	µg/L	n/v	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U R	-	100 U R	20.0 U R	-	100 U R	100 U	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U	20.0 UJ	20.0 U R	20.0 U R	20.0 U R	20.0 U R	20.0 U R		
Ethylbenzene	µg/L	5-- ^B	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	5 U	2.00 U	-	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	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	-	5 U	2.00 U	-	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	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	-	25 U	5.00 U	-	25 U	25 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 UJ	5.00 U	5.00 U	5.00 U		
Isopropylbenzene	µg/L	5-- ^B	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	5 U	2.00 U	-	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U		
Isopropyltoluene, p- (Cymene)	µg/L	5-- ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Methyl Acetate	µg/L	n/v	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	-	5 U	2.00 U	-	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U		
Methyl Ethyl Ketone (MEK) (2-Butanone)	µg/L	50 ^A	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U	-	25 U	10.0 UJ	-	25 U	25 U	10.0 UJ	10.0 UJ	10.0 UJ	10.0 U	10.0 UJ	10.0 UJ	10.0 U	10.0 UJ	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	-	25 U	5.00 U	-	25 U	25 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 UJ	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	-	5 U	2.00 U	-	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	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	-	5 U	2.00 U	-	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	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 U	5.00 U	5.00 U	5 U	3.4 J	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 UJ	5.00 U	5.00 U	5.00 U		
Naphthalene	µg/L	10 ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Propylbenzene, n-	µg/L	5-- ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Styrene	µg/L	5-- ^B	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	-	5 U	5.00 U	-	5 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 UJ	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	5 U	2.00 U	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U		
Tetrachloroethene (PCE)	µg/L	5-- ^B	1.68 J	1.83 J	1.68 J	2.76	2.00 U	2.00 U	2.8 J	2.00	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	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	-	5 U	2.00 U	-	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	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 U	5.00 U	-	5 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 UJ	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 U	5.00 U	-	5 U	5 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 UJ	5.00 UJ	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	5 U	2.00 U	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	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	5 U	2.00 U	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U		
Trichloroethene (TCE)	µg/L	5-- ^B	2.92	3.09	2.51	3.44	1.29 J	2.00 U	0.99 J	2.00 U	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	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	5 U	2.00 U	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	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	-	5 U	2.00 U	-	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U		
Trimethylbenzene, 1,2,4-	µg/L	5-- ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Trimethylbenzene, 1,3,5-	µg/L	5-- ^B	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Vinyl Acetate	µg/L	n/v	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Vinyl Chloride	µg/L	2 ^B	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	5 U	2.00 U	2.00 U	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	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	-	10 U	2.00 U	-	10 U	10 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	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	-	5 U	2.00 U	-	5 U	5 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 U	2.00 UJ	2.00 UJ	2.00 U	2.00 U	2.00 U		
Total VOC	µg/L	n/v	8.25	8.81	6.63	7.79	1.29	ND	3.79	2.00	ND	ND	3.4	ND	ND	ND	ND	ND	ND	UJ- ND	UJ ND	ND	ND	ND		
VOC Tentatively Identified Compounds																										
Total VOC TICs	µg/L	n/v	-	-	-	-	-	-	2.5 U	-	-	2.5 U	2.5 U	-	-	-	-	-	-	-	-	-	-	-	-	

See notes on last page.

Table 2
Summary of Analytical Results in Groundwater
Remedial Investigation
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Notes:

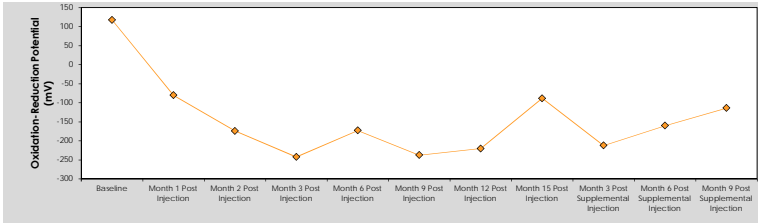
TOGS	NYSDEC TOGS 1.1.1 (Reissued June 1998 with errata in January 1999 and addenda in April 2000 and June 2004)
^	TOGS 1.1.1 - Table 1 - Ambient Water Quality Standards and Guidance Values, Division of Water, Technical and Operational Guidance Series (TOGS 1.1.1); Guidance
8	TOGS 1.1.1 - Table 1 - Ambient 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	Measured concentration did not exceed the indicated standard.
0.50 U	Laboratory reporting limit was greater than the applicable standard.
0.03 U	Analyte was not detected at a concentration greater than the laboratory reporting 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.
D	Result was obtained from the analysis of a dilution
J	The reported result is an estimated value.
J-	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
J+	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
M	Denotes matrix spike recoveries outside QC limits. Matrix bias indicated.
MC	Matrix Spike Recovery Outside Control Limits Due To Sample Matrix Interference, Biased High.
N	Indicates presumptive evidence of a compound. Identification of tentatively identified compound is based on a mass spectral library search.
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
Q	Indicates LCS control criteria did not meet requirements
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
U	Indicates that the analyte was analyzed but not detected.
UJ	Indicates estimated non-detect.

Table 3
Summary of Groundwater Field Parameters
Former Carriage Factory
33 Litchfield Street, Rochester, NY

Sample Location		RW-6												RW-7													
Purge Date		20-May-13	27-Mar-14	28-May-14	1-Jul-14	7-Aug-14	28-Oct-14	4-Feb-15	4-May-15	13-Aug-15	1-Feb-16	3-May-16	9-Aug-16	14-Feb-17	20-May-13	27-Mar-14	28-May-14	1-Jul-14	7-Aug-14	28-Oct-14	4-Feb-15	4-May-15	13-Aug-15	1-Feb-16	3-May-16	9-Aug-16	14-Feb-17
Purge Methodology		Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	
Purge Method		Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	
Sample Date		20-May-13	27-Mar-14	28-May-14	1-Jul-14	7-Aug-14	28-Oct-14	4-Feb-15	4-May-15	13-Aug-15	1-Feb-16	3-May-16	9-Aug-16	14-Feb-17	20-May-13	27-Mar-14	28-May-14	1-Jul-14	7-Aug-14	28-Oct-14	4-Feb-15	4-May-15	13-Aug-15	1-Feb-16	3-May-16	9-Aug-16	14-Feb-17
Sampling Method		Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	
Field Parameters	Units																										
Conductivity	mS/cm	0.93	1.07	1.72	1.34	1.30	1.21	1.08	1.01	1.03	1.94	1.11	1.30	1.35	1.02	1.21	1.30	1.17	1.07	0.96	1.16	1.08	1.11	1.39	1.00	1.05	1.09
Dissolved Oxygen	mg/L	0.08	0.01	0.07	0.10	0.14	0.42	0.28	0.08	0.20	0.12	0.95	0.32	1.31	0.08	0.38	0.31	0.13	0.44	0.39	0.07	0.26	0.05	0.82	0.22	1.14	
Oxidation Reduction Potential	mV	-10.6	138.3	-49.0	-136.7	-306.1	-134.8	-304.1	-252.4	-143.6	-117.7	47.2	-59.1	-89.6	92.6	-37.6	-104.6	-303.6	-168.2	-234.3	-208.5	-48.0	-217.8	-242.5	-59.2	-67.5	
pH	S.U.	7.13	7.33	7.03	6.91	7.00	7.06	7.22	7.14	7.15	6.96	7.10	7.12	7.07	7.06	7.27	7.08	6.99	7.07	7.11	7.12	6.99	7.11	7.07	7.1	7.18	7.14
Temperature	deg C	19.0	6.1	17.6	21.2	17.2	16.7	10.4	18.8	9.9	10.2	20.6	6.9	16.8	6.7	20.3	18.4	16.3	17.5	7.9	10.6	17.9	10.3	10.2	17.4	8.4	
Turbidity	NTU	7.08 ^a	5.46	7.48	4.83	4.79	1.03	4.76	4.62	3.01	4.68	6.46	13.9	64.8	10.38	1.36	3.12	1.12	1.53	4.74	0.67	1.77	3.13	1.72	2.34	7.01	10.63
Volume Purged	gal	1.3	1.1	1.2	0.7	1.0	0.7	1.2	2.0	1.8	1.5	1.0	1.5	0.6	1.2	0.9	1.8	1.2	1.5	2.0	1.8	2.0	2.2	1.4	1.2	1.3	

Sample Location		RW-8												RW-9												RW-11		
Purge Date		20-May-13	21-May-13	27-Mar-14	29-May-14	1-Jul-14	7-Aug-14	28-Oct-14	4-Feb-15	4-May-15	13-Aug-15	1-Feb-16	2-May-16	9-Aug-16	14-Feb-17	22-May-13	27-Mar-14											
Purge Methodology		Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow											
Purge Method		Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic											
Sample Date		20-May-13	21-May-13	27-Mar-14	29-May-14	1-Jul-14	7-Aug-14	28-Oct-14	4-Feb-15	4-May-15	13-Aug-15	1-Feb-16	2-May-16	9-Aug-16	14-Feb-17	22-May-13	27-Mar-14											
Sampling Method		Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic											
Field Parameters	Units																											
Conductivity	mS/cm	1.04	0.94	1.05	0.68	0.74	0.85	0.98	1.03	0.97	1.29	1.51	0.93	1.44	1.10	0.79	0.82											
Dissolved Oxygen	mg/L	1.06	2.48	2.45	5.52	2.37	2.43	0.50	0.45	0.61	2.37	1.46	2.51	0.91	2.45	2.36	1.62											
Oxidation Reduction Potential	mV	77.0	49.4	104.6	28.1	33.9	51.0	4.1	-166.7	-34.3	50.5	-31.3	-135.7	33.7	41.3	94.5	88.8											
pH	S.U.	7.05	7.13	7.29	7.44	7.12	7.06	7.04	7.12	6.99	7.03	7.07	7.11	7.05	7.07	7.09	7.33											
Temperature	deg C	14.4	14.0	9.4	16.8	10.5	15.5	16.8	10.5	15.2	16.9	13.1	12.2	17.0	10.9	14.6	5.1											
Turbidity	NTU	2.54	0.33	0.50	3.62	1.80	1.06	1.61	0.71	2.88	3.18	1.50	3.14	1.35	1.21	0.11 ^b	1.31											
Volume Purged	gal	1.0	0.8	1.2	0.7	0.35	0.7	2.9	1.5	1.6	1.0	1.5	0.9	1.4	0.7	0.4	0.7											

Sample Location		RW-12												RW-13	
Purge Date		20-May-13	28-May-14	2-Jul-14	7-Aug-14	29-Oct-14	4-Feb-15	4-May-15	12-Aug-15	1-Feb-16	3-May-16	9-Aug-16	14-Feb-17	20-May-13	27-Mar-14
Purge Methodology		Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow	Low flow
Purge Method		Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic
Sample Date		20-May-13	28-May-14	2-Jul-14	7-Aug-14	29-Oct-14	4-Feb-15	4-May-15	12-Aug-15	1-Feb-16	3-May-16	9-Aug-16	14-Feb-17	20-May-13	27-Mar-14
Sampling Method		Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic	Peristaltic
Field Parameters	Units														
Conductivity	mS/cm	1.02	1.76	2.09	2.00	1.60	1.37	1.49	1.23	1.60	1.40	1.54	1.58	1.08	1.12
Dissolved Oxygen	mg/L	0.06	0.06	0.24	0.46	1.02	0.34	0.09	0.12	0.12	1.76	0.11	1.33	1.96	2.13
Oxidation Reduction Potential	mV	20.0	-149.5	-204.6	-159.7	-44.7	-294.1	-113.1	-76.9	-42.4	-35.5	-16.9	-42.0	48.6	101.8
pH	S.U.	7.10	7.25	7.11	7.17	7.30	7.36	7.40	7.34	7.32	7.41	7.33	7.36	7.21	7.25
Temperature	deg C	16.0	24.1	17.4	18.1	14.8	6.8	12.4	17.7	10.5	10.7	17.4	7.2	17.2	6.0
Turbidity	NTU	— ^c	1.10	5.55	2.82	2.45	1.40	0.61	3.66	2.27	2.56	5.50	7.13	5.10	1.86
Volume Purged	gal	1.8	2.8	0.9	1.3	0.6	1.7	2.9	1.1	1.3	0.6	1.8	0.7	2.3	2.0



Notes:
deg c: degrees Celsius
gal: gallons
mg/L: milligrams per liter
mS/cm: milliSiemens per centimeter
mV: millivolts
NTU: nephelometric turbidity unit
AU: attenuation unit (equivalent to NTU)
S.U.: standard units
^a Sample turbidity measured approximately 10 minutes prior to sampling; subsequent measurements (~126 NTU) indicated that the turbidity meter was not functioning.
^b Sample turbidity measured approximately 5 minutes prior to sampling; subsequent measurement (0.02 NTU) indicated that the turbidity meter was not functioning.
^c Turbidity meter was not functioning; groundwater was clear and did not have an odor.
^d Due to a large drop in water level, RW-4 was purged and sampled by bailer (during the May 2015 event); parameters provided were not measured downhole.
^e Turbidity measured in AU. Water was not becoming sufficiently clearer with purge activities.

Parameter Average for All Wells
Pre - Post Injection Comparison

Parameter	Mar-14	May-14	Jul-14	Aug-14	Oct-14	Feb-15	May-15	Aug-15	Feb-16	May-16	Aug-16	Feb-17
Conductivity	1.04	1.36	1.60	1.29	1.15	1.21	1.23	1.94	1.89	1.42	2.20	1.46
Dissolved Oxygen	0.55	0.57	0.33	0.34	0.56	0.15	0.40	0.29	0.24	0.68	0.28	1.73
ORP	117.55	-80.19	-173.91	-242.46	-172.97	-237.27	-220.33	-88.15	-212.08	-189.98	-113.81	-107.77
pH	7.17	7.19	7.11	7.07	7.20	7.29	7.09	7.12	7.11	7.12	7.22	7.07
Temperature	6.45	20.04	17.28	16.95	16.03	11.03	13.53	17.93	13.48	13.58	18.95	12.08
Turbidity	3.74	3.46	2.74	2.49	2.64	2.17	2.77	4.14	104.13	5.38	8.89	12.02
Volume Purged	1.15	1.48	1.20	1.32	1.19	1.31	2.07	1.24	1.93	1.07	1.57	0.95
	Baseline	Month 1 Post Injection	Month 2 Post Injection	Month 3 Post Injection	Month 6 Post Injection	Month 9 Post Injection	Month 12 Post Injection	Month 15 Post Injection	Supplemental Injection	Supplemental Injection	Supplemental Injection	Supplemental Injection

Table 4
Summary of Groundwater Elevations
Former Carriage Factory
33 Litchfield Street, Rochester, NY

Well designation	Date of Sampling event											
	3/27/2014	5/28/2014	7/2/2014	08/01/14	10/01/14	02/01/15	5/4/2015	08/01/15	02/01/16	5/2/2016	08/01/16	02/01/17
RW-1	513.03	513.21	512.60	510.69	512.51	512.50	513.12	512.98	513.15	512.18	511.62	512.63
RW-2	513.08	513.01	512.74	512.96	512.43	512.57	512.98	512.81	513.02	513.01	511.73	514.01
RW-3	513.34	513.37	512.97	513.73	512.74	512.83	513.40	512.99	513.35	513.55	510.91	515.47
RW-4	510.22	510.45	512.50	513.03	513.43	513.60	514.85	514.73	514.83	515.89	511.48	520.67
RW-5	513.06	512.38	511.56	514.12	511.89	511.14	513.16	512.58	513.09	513.41	510.33	nr
RW-6	512.64	512.74	512.13	515.87	511.87	512.06	511.52	512.38	512.30	512.49	510.15	512.74
RW-7	512.98	512.91	512.13	514.34	511.85	512.14	512.90	512.40	512.69	512.74	509.73	512.98
RW-9	513.84	513.66	512.77	519.04	512.36	512.69	513.85	513.04	514.07	513.59	510.88	514.44
RW-12	508.65	510.79	510.15	510.90	510.42	510.75	511.21	510.73	510.65	510.64	508.14	511.53
B102-MW	507.60	510.00	509.01	509.97	512.25	512.54	513.61	513.15	513.75	514.10	510.67	519.88
B106-MW	513.22	512.91	512.28	513.47	512.62	512.74	513.45	512.69	513.79	513.92	510.80	514.09
B108-MW	513.66	513.53	512.67	513.69	512.50	508.92	513.88	513.19	514.12	514.08	510.98	514.94

Table 5
Quarterly and Annual Monitoring of the Sub-Slab Depressurization System
Former Carriage Factory
33 Litchfield Street, Rochester, NY

Date	Photoionization Detector Reading * (parts per million)			Vacuum Monitoring Points (inches Water Column)						Basement inspected for cracks, new penetrations, other potential leaks? If necessary, perform smoke testing to assess the leakage potential of suspect locations.)	Fans, pilot lights inspected in the attic? Any abnormal conditions such as hot fan housings, vibrations, or unusual noises?	Any condensation occurring in SSDS piping?
	FAN-1	FAN-2	FAN-3	VMP-1	VMP-2	VMP-3	VMP-4	VMP-5	VMP-6			
12/14/2014	Not Collected	Not Collected	Not Collected	-0.042	-0.075	-0.107	-0.099	-0.142	-0.084	None observed	None observed	None Observed
2/2/2016	0.1	0	0	-0.014	-0.043	-0.084	-0.086	-0.123	-0.073	None observed	None observed	Yes**
5/2/2016	Quarterly vacuum monitoring event, PID readings not taken			-0.022	-0.064	-0.101	-0.089	-0.184	-0.113	Quarterly vacuum monitoring event, basement and fan inspection not required		Yes
5/3/2016				-0.024	-0.071	-0.126	-0.107	-0.205	-0.121			Minimal***
8/9/2016				-0.038	-0.086	-0.141	-0.119	-0.196	-0.098			None Observed
12/6/2016				-0.009	-0.040	-0.068	-0.067	-0.109	-0.060			Minimal
2/14/2017	0.1	0	0	-0.010	-0.044	-0.075	-0.066	-0.116	-0.073	None observed	None observed	Minimal

* Fans 1,2, and 3 are the western, central, and eastern fans, respectively.
** Based on 3/17/2016 site visit
***Fans turned off for two hours to let condensate drain to sub-floor gravel prior to taking readings.

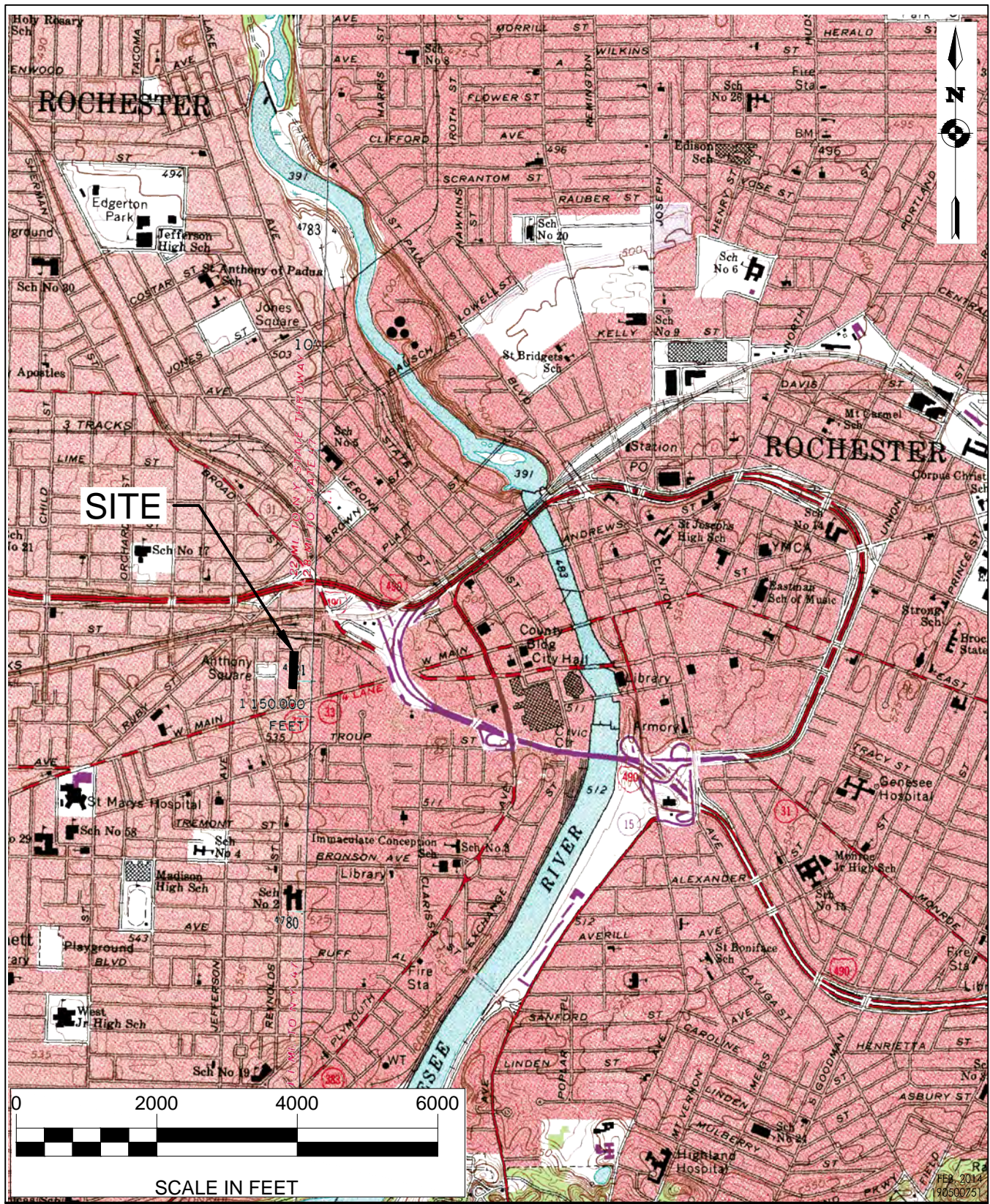
Table 6
Summary of Analytical Results in Post-Construction Purge Water and Discharge Permit Samples
Former Carriage Factory
33 Litchfield Street, Rochester, New York

Sample Date			15-Sep-14	4-Nov-14	4-Feb-15	17-Feb-15	5-May-15		13-Aug-15		1-Dec-15	2-Feb-16		2-May-16	3-May-16	9-Aug-16	10-Aug-16	13-Feb-17	14-Feb-17	
Sample Location			LI-EL-W11	LI-EL-W12	LI-EL-W13	LI-EL-W14	LI-EL-W15	LI-EL-W16	LI-EL-W17	LI-EL-W18	LI-EL-W19	LI-EL-W20	LI-EL-W21	LI-EL-W22	LI-EL-W23	LI-EL-W24	LI-EL-W25	LI-EL-W26	LI-EL-W27	LI-EL-W28
Sample ID		County of	LI-EL-W11	LI-EL-W12	LI-EL-W13	LI-EL-W14	LI-EL-W15	LI-EL-W16	LI-EL-W17	LI-EL-W18	LI-EL-W19	LI-EL-W20	LI-EL-W21	LI-EL-W22	LI-EL-W23	LI-EL-W24	LI-EL-W25	LI-EL-W26	LI-EL-W27	LI-EL-W28
Sampling Company		Monroe	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC	STANTEC
Laboratory		Sewer Use	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH	PARAROCH
Laboratory Work Order		Permit	144025	144818	150381	150502	151695	151695	153410	153410	155061	160463	160463	161714	161714	163435	163435	170519	170547	170547
Laboratory Sample ID	Units	Enclosure	144025-01	144818-01	150381-01	150502-01	151695-01	151695-02	153410-01	153410-02	155061-01	160463-01	160463-02	161714-01	161714-02	163435-01	163435-02	170519-01	170547-01	170547-02
Metals																				
Cadmium	mg/L	1.0 ^A	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U	0.00500 U
Copper	mg/L	3.0 ^A	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0276	0.0250 U	0.0250 U	0.0250 U	0.0250 U
Lead	mg/L	1.0 ^A	0.0239	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0275	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Zinc	mg/L	5.0 ^A	0.214	0.0600 U	0.0600 U	0.0600 U	0.0600 U	0.177	0.0600 U	0.0600 U	1.15	0.319	0.0600 U	0.0993	0.0600 U	0.136	0.0600 U	0.0600 U	0.0600 U	0.0600 U
Volatile Organic Compounds																				
Bromodichloromethane	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	1 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
Bromoform (Tribromomethane)	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	2.5 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
Bromomethane (Methyl bromide)	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	1 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
Carbon Tetrachloride (Tetrachloromethane)	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	1 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
Chlorobenzene (Monochlorobenzene)	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	1 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
Chloroethane (Ethyl Chloride)	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	1 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
Chloroform (Trichloromethane)	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	1 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
Chloromethane	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	1 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
Dibromochloromethane	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	1 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
Dichlorobenzene, 1,2-	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	1 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
Dichlorobenzene, 1,3-	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	1 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
Dichlorobenzene, 1,4-	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	1 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
Dichloroethane, 1,1-	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	1 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
Dichloroethane, 1,2-	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	1 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
Dichloroethene, 1,1-	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	1 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
Dichloroethene, cis-1,2-	µg/L	n/v	98.8	107	12.5	2.00 U	19.2	2.00 U	2.00 U	11.1	1 U	2.00 U	2.00 U	2.00 U	109	2.00 U	38.8	2.00 U	8.02	2.00 U
Dichloroethene, trans-1,2-	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	1 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
Dichloropropane, 1,2-	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	1 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
Dichloropropene, cis-1,3-	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	1 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
Dichloropropene, trans-1,3-	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	1 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
Methylene Chloride (Dichloromethane)	µg/L	n/v	5.00 U	6.88	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U	2.5 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
Tetrachloroethane, 1,1,2,2-	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	1 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
Tetrachloroethene (PCE)	µg/L	n/v	2.00 U	2.00 U	2.00 U	2.00 U	n/v	2.25	2.00 U	2.00 U	1 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
Trichloroethane, 1,1,1-	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	1 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
Trichloroethane, 1,1,2-	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	1 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
Trichloroethene (TCE)	µg/L	n/v	2.00 U	2.14	2.86	2.00 U	2.62	2.00 U	2.00 U	2.00 U	1 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
Trichlorofluoromethane (Freon 11)	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	1 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
Vinyl Chloride	µg/L	n/v	10.1	33.0	4.96	2.00 U	10.3	2.00 U	2.00 U	9.14	1 U	2.00 U	2.00 U	2.00 U	35.9	2.00 U	16.4	2.00 U	4.01	2.00 U
Total VOC	µg/L	2,130 ^A	108.9	149.02	20.32	ND	34.37	ND	ND	20.24	ND	ND	ND	ND	144.9	ND	55.2	ND	12.03	ND

Notes:
County of
Monroe
Sewer Use County of Monroe Sewer Use Permit Enclosure (Permit Number: ST-256, District Number: 8575)
Permit
Enclosure
 ^A Site Specific Requirements
 15.2 Measured concentration did not exceed the indicated standard.
0.03 U Analyte was not detected at a concentration greater than the laboratory reporting limit.
n/v No standard/guideline value.

Figures

ORIGINAL SHEET - ANSI A
U:\190500751\drawing\CAD\PRR\April 2016\Figure 1 - Site Location Map.dwg



61 Commercial Street, Suite 100
Rochester, New York USA 14614
585.475.1440 www.stantec.com

Client/Project

CARRIAGE FACTORY SPECIAL NEEDS APARTMENTS, L.P.
BROWNFIELD CLEANUP PROGRAM
33 LITCHFIELD STREET, ROCHESTER, NY 14608

Figure No.

1

Title

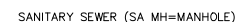
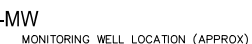
PERIODIC REVIEW REPORT
SITE LOCATION MAP



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Legend



1. PLAN ADAPTED FROM BASE PLAN BY PARRONE ENGINEERING.
2. GROUND SURFACE ELEVATION CONTOURS OBTAINED FROM
DRAWING ENTITLED "BORING LOCATION PLAN"
BY FOUNDATION DESIGN, P.C., DATED JANUARY 26, 2011.

Revision	By	Appd.	YY.MM.DD
ERD & GROUNDWATER WORK PLAN	AC	MPS	14.01
Issued	By	Appd.	YY.MM.DD
File Name:			
	Dwn.	Chkd.	Dsqn.
			YY.MM.DD

THE CARRIAGE FACTORY

BROWNFIELD CLEANUP PROGRAM
FORMER CARRIAGE FACTORY
33 LITCHFIELD STREET, ROCHESTER, NY

PERIODIC REVIEW REPORT GROUNDWATER MONITORING WELLS

Project No.
190500751

Scale
AS SHOWN

Drawing No.

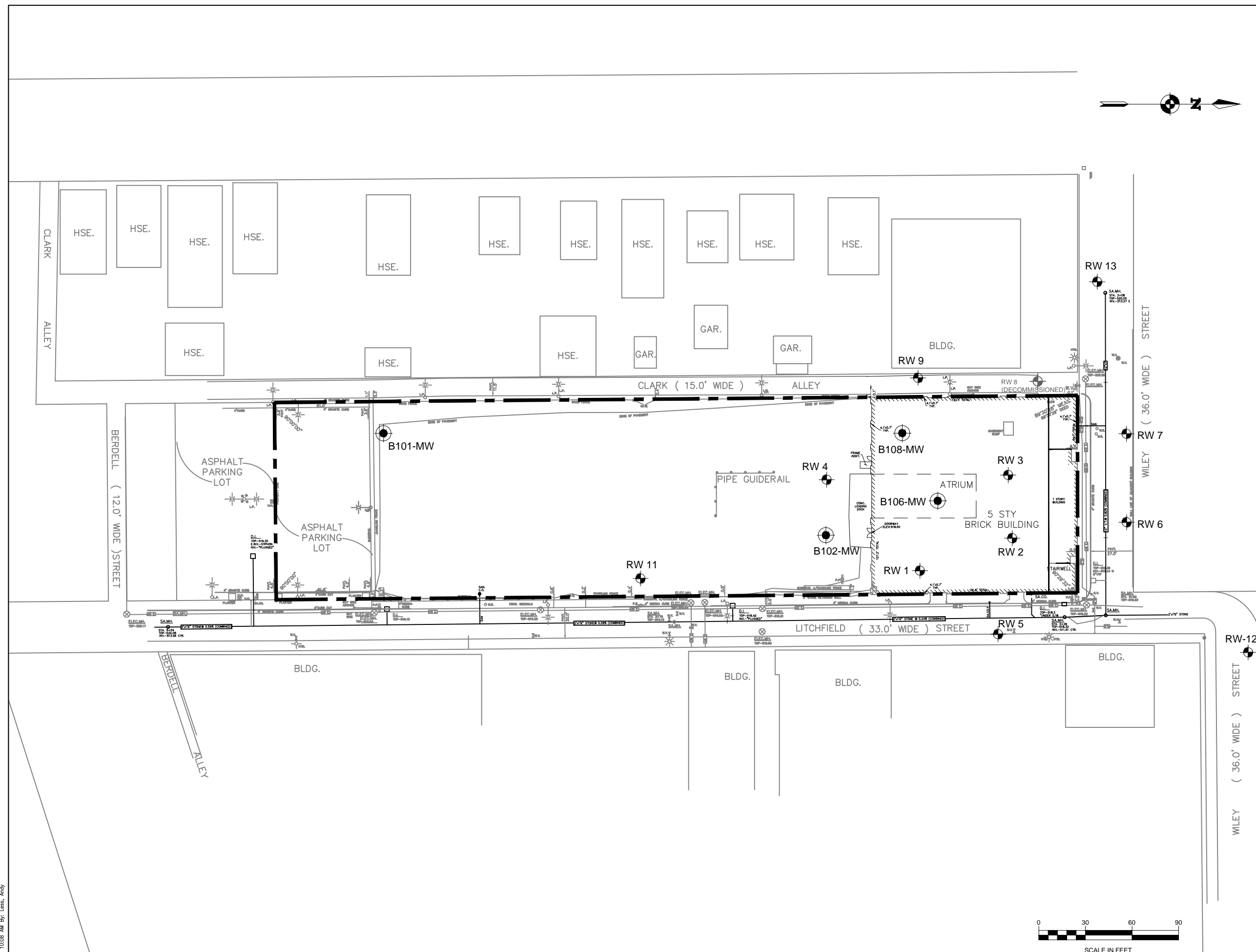
Sheet

Revision

FIGURE 2

of

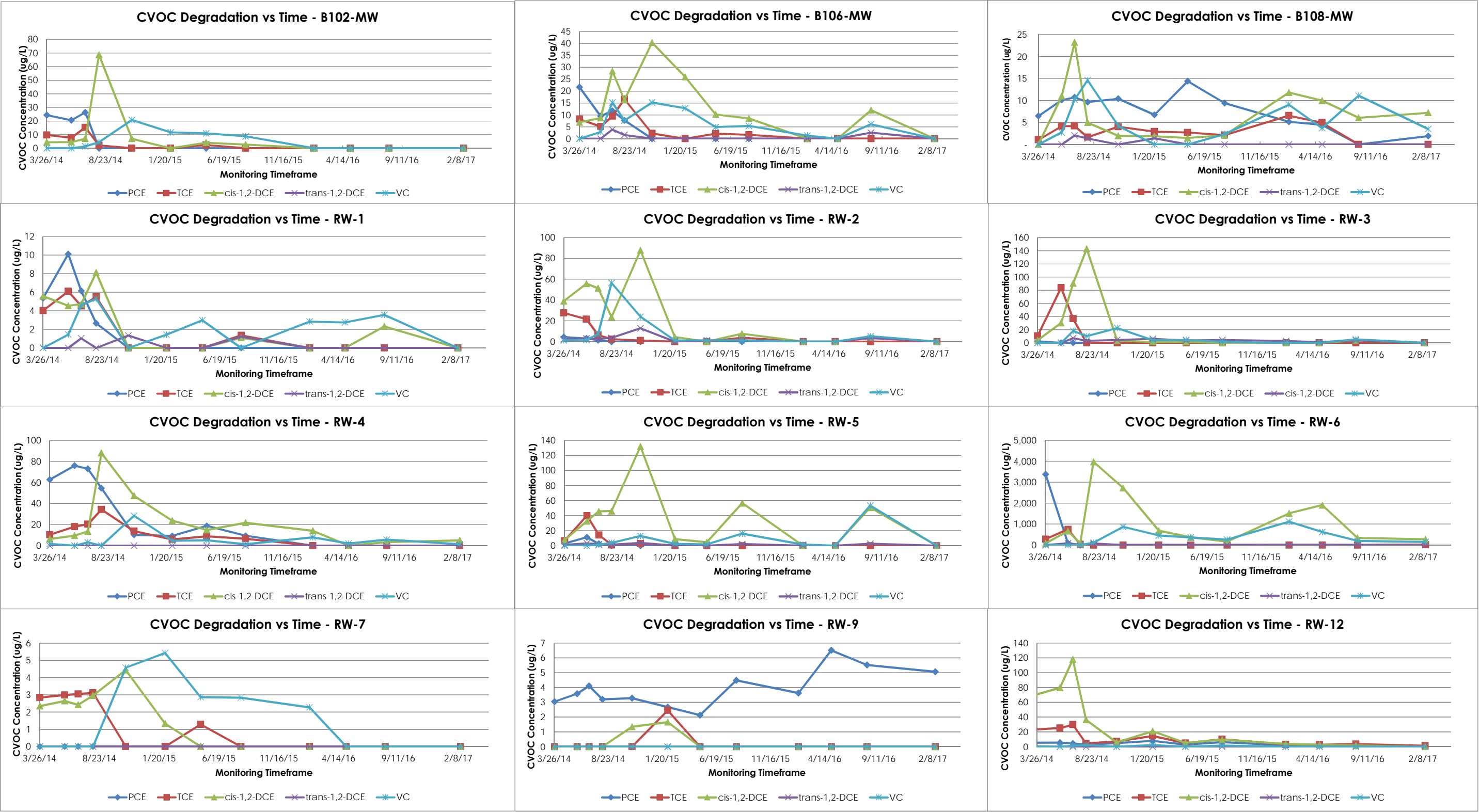
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J:\190500751\drawing\CAD\PRR\April 2016\Figure 2 Exploration Location Plan.dwg
2016/04/04 10:08 AM By: Less, Andy

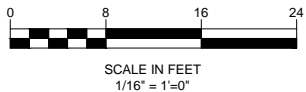
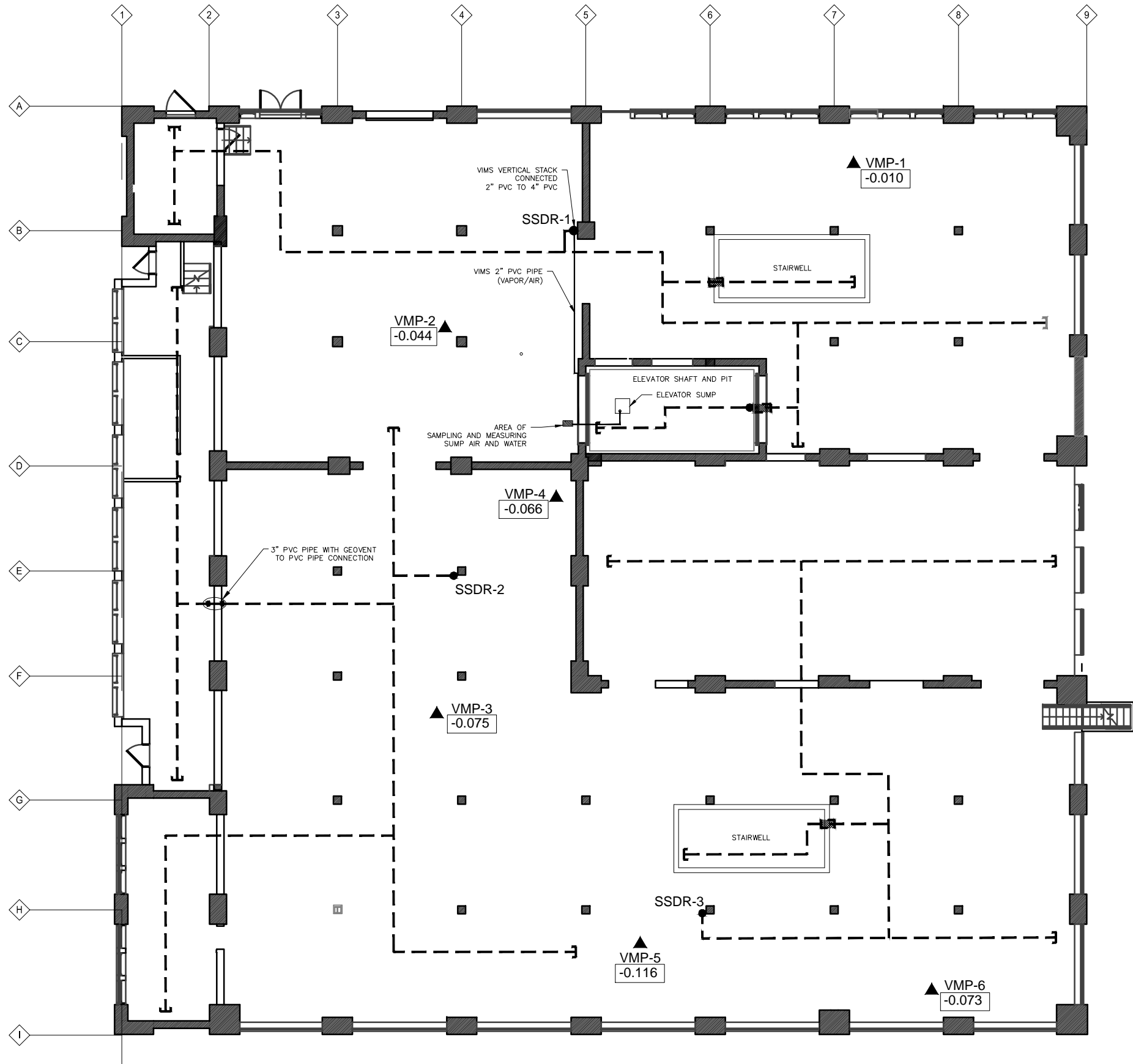
ORIGINAL SHEET - ANSI D

Figure 3
Summary of CVOC Degradation Over Time - All Wells
Former Carriage Factory
33 Litchfield Street, Rochester, NY



U:\190500751\drawing\AD\PRR\Feb 2017\Figure 4 Sub-Slab Depressurization System Layout.dwg
2017/03/24 2:44 PM By: Less, Andy

ORIGINAL SHEET - ANSI D



Stantec
61 COMMERCIAL STREET - Suite 100
ROCHESTER, NY
14641
Tel. 585-475-1440
Fax. 585-424-5951
www.stantec.com

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Consultants

Legend

- VACUUM MONITORING POINTS (VM)
- RISER PIPE (SSDR-1)
- GEOVENT WITH CAP
- SOLID PVC PIPE
- 3" PVC PIPE WITH GEOVENT TO PVC PIPE CONNECTION
- METAL SLEEVES
- SUB-SLAB VACUUM READING ON 2/14/2017. UNITS : INCHES OF WATER COLUMN

Notes

1.) VIMS (LIQUID BOOT MEMBRANE SECTION) APPLICATION UNDER ALL CONCRETE SLAB HORIZONTAL APPLICATION

Revision	By	Appd.	YY.MM.DD
AS-BUILT DRAWINGS	BH/AL	PN	14.12.05
Issued	By	Appd.	YY.MM.DD

File Name:			
	Dwn.	Chkd.	Dsgn.

Permit-Seal

Client/Project

CARRIAGE FACTORY
PERIODIC REVIEW REPORT

BROWNFIELD CLEANUP PROGRAM
FORMER CARRIAGE FACTORY
33 LITCHFIELD STREET, ROCHESTER, NY

Title

ANNUAL SUB-SLAB VACUUM
MONITORING OF THE SSDS

Project No.	Scale
190500751	AS SHOWN
Drawing No.	Sheet
	Revision

FIGURE 4

of

0

Appendix A
IC/EC Certification Forms



Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form



Site Details		Box 1
Site No.	C828184	
Site Name Carriage Factory		
Site Address: 33 Litchfield Street Zip Code: 14608		
City/Town: Rochester		
County: Monroe		
Site Acreage: 1.5		
Reporting Period: March 16, 2016 to March 16, 2017		
		YES NO
1. Is the information above correct?		<input checked="" type="checkbox"/> <input type="checkbox"/>
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?		<input type="checkbox"/> <input checked="" type="checkbox"/>
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?		<input type="checkbox"/> <input checked="" type="checkbox"/>
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?		<input type="checkbox"/> <input checked="" type="checkbox"/>
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?		<input type="checkbox"/> <input checked="" type="checkbox"/>

Box 2	
	YES NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	<input checked="" type="checkbox"/> <input type="checkbox"/>
7. Are all ICs/ECs in place and functioning as designed?	<input checked="" type="checkbox"/> <input type="checkbox"/>
IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.	
A Corrective Measures Work Plan must be submitted along with this form to address these issues.	
_____ Signature of Owner, Remedial Party or Designated Representative	_____ Date

		Box 2A
		YES NO
8.	Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	<input type="checkbox"/> <input checked="" type="checkbox"/>
<p>If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.</p>		
9.	Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	<input checked="" type="checkbox"/> <input type="checkbox"/>
<p>If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.</p>		

SITE NO. C828184		Box 3
Description of Institutional Controls		
<u>Parcel</u>	<u>Owner</u>	<u>Institutional Control</u>
120.36-2-20	Carriage Factory Special Needs Apts, LP	Ground Water Use Restriction Landuse Restriction Site Management Plan IC/EC Plan Monitoring Plan O&M Plan
<p>A Site Management Plan which includes a soil excavation plan and IC/EC plan.</p> <p>An environmental easement that requires compliance with SMP; provides for periodic certification; limits site use to restricted residential, commercial or industrial uses; and restricts the use of groundwater as a potable source.</p>		

		Box 4
Description of Engineering Controls		
<u>Parcel</u>	<u>Engineering Control</u>	
120.36-2-20	Groundwater Treatment System Vapor Mitigation Cover System	
<p>Cover System: The sitewide cover system consists either of the on-site buildings, pavement, sidewalks or two feet of clean soil.</p> <p>Sub-slab Depressurization system: Continued operation of the SSDS in the main occupied building is required.</p> <p>Groundwater Remediation System: Continued monitoring and operation of the groundwater treatment system.</p>		

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

- a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;
- b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

☒ ☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

- (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;
- (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;
- (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;
- (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and
- (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

☒ ☐

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and
DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

**IC CERTIFICATIONS
SITE NO. C828184**

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1, 2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I James M. Whalen at 1931 Buffalo Road, Rochester, NY
print name print business address

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

James M. Whalen, CFO
Signature of Owner, Remedial Party, or Designated Representative
Rendering Certification

7/6/17
Date

IC/EC CERTIFICATIONS

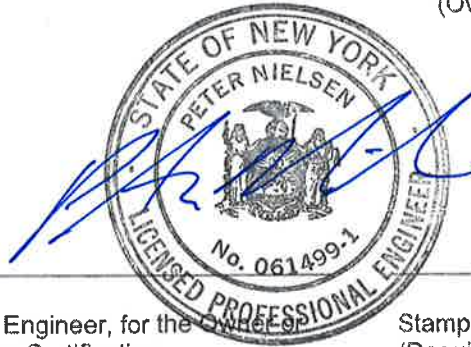
Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Peter Nielsen at Stantec, 61 Commercial St, Rochester, NY
print name print business address

am certifying as a Professional Engineer for the Remedial Party
(Owner or Remedial Party)



Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp
(Required for PE)

4/11/2017

Date

Appendix B

Field Monitoring Logs

2016

Monthly monitoring - sub-slab depressurization system

date	name	Vacuum inches water column			Pilot light on			
		Fan-1	Fan-2	Fan-3	Fan-1	Fan-2	Fan-3	
1/13/16	MA	2.2	2.2	2.2	✓	✓	✓	
2/1/16	SAVTEC	2.3	2.3	2.0	✓	✓	✓	
3/17/16	MA	2.3	2.3	2.1	✓	✓	✓	
4/7/16	MA	2.2	2.2	2.0	✓	✓	✓	
5/3/16	MA	2.2	2.2	2.0	✓	✓	✓	
6/7/16	MA	2.1	2.2	2.0	✓	✓	✓	
7/13/16	MA	2.1	2.2	2.0	✓	✓	✓	
8/2/16	MA	2.1	2.2	2.0	✓	✓	✓	
8/10/16	SAVTEC	2.1	2.2	2.0	✓	✓	✓	
9/22/16	MA	2.1	2.2	2.0	✓	✓	✓	
10/25/16	MA	2.1	2.2	2.0	✓	✓	✓	
11/25/16	MA	2.1	2.2	2.0	✓	✓	✓	
12/1/16	MA	2.1	2.2	2.0	✓	✓	✓	

Monthly monitoring – sub –slab depressurization system

[illegible]

Appendix C

Laboratory Analytical Reports



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-1-PS6

Lab Sample ID: 161713-01

Date Sampled: 5/2/2016

Matrix: Groundwater

Date Received: 5/3/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/4/2016 18:09
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/4/2016 18:09
1,1,2-Trichloroethane	< 2.00	ug/L		5/4/2016 18:09
1,1-Dichloroethane	< 2.00	ug/L		5/4/2016 18:09
1,1-Dichloroethene	< 2.00	ug/L		5/4/2016 18:09
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/4/2016 18:09
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/4/2016 18:09
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/4/2016 18:09
1,2-Dibromoethane	< 2.00	ug/L		5/4/2016 18:09
1,2-Dichlorobenzene	< 2.00	ug/L		5/4/2016 18:09
1,2-Dichloroethane	< 2.00	ug/L		5/4/2016 18:09
1,2-Dichloropropane	< 2.00	ug/L		5/4/2016 18:09
1,3-Dichlorobenzene	< 2.00	ug/L		5/4/2016 18:09
1,4-Dichlorobenzene	< 2.00	ug/L		5/4/2016 18:09
1,4-dioxane	< 20.0	ug/L		5/4/2016 18:09
2-Butanone	< 10.0	ug/L		5/4/2016 18:09
2-Hexanone	< 5.00	ug/L		5/4/2016 18:09
4-Methyl-2-pentanone	< 5.00	ug/L		5/4/2016 18:09
Acetone	< 10.0	ug/L		5/4/2016 18:09
Benzene	< 1.00	ug/L		5/4/2016 18:09
Bromochloromethane	< 5.00	ug/L		5/4/2016 18:09
Bromodichloromethane	< 2.00	ug/L		5/4/2016 18:09
Bromoform	< 5.00	ug/L		5/4/2016 18:09
Bromomethane	< 2.00	ug/L		5/4/2016 18:09
Carbon disulfide	< 2.00	ug/L		5/4/2016 18:09
Carbon Tetrachloride	< 2.00	ug/L		5/4/2016 18:09
Chlorobenzene	< 2.00	ug/L		5/4/2016 18:09

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 Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-1-PS6

Lab Sample ID: 161713-01

Date Sampled: 5/2/2016

Matrix: Groundwater

Date Received: 5/3/2016

Chloroethane	< 2.00	ug/L	5/4/2016 18:09
Chloroform	< 2.00	ug/L	5/4/2016 18:09
Chloromethane	< 2.00	ug/L	5/4/2016 18:09
cis-1,2-Dichloroethene	< 2.00	ug/L	5/4/2016 18:09
cis-1,3-Dichloropropene	< 2.00	ug/L	5/4/2016 18:09
Cyclohexane	< 10.0	ug/L	5/4/2016 18:09
Dibromochloromethane	< 2.00	ug/L	5/4/2016 18:09
Dichlorodifluoromethane	< 2.00	ug/L	5/4/2016 18:09
Ethylbenzene	< 2.00	ug/L	5/4/2016 18:09
Freon 113	< 2.00	ug/L	5/4/2016 18:09
Isopropylbenzene	< 2.00	ug/L	5/4/2016 18:09
m,p-Xylene	< 2.00	ug/L	5/4/2016 18:09
Methyl acetate	< 2.00	ug/L	5/4/2016 18:09
Methyl tert-butyl Ether	< 2.00	ug/L	5/4/2016 18:09
Methylcyclohexane	< 2.00	ug/L	5/4/2016 18:09
Methylene chloride	< 5.00	ug/L	5/4/2016 18:09
o-Xylene	< 2.00	ug/L	5/4/2016 18:09
Styrene	< 5.00	ug/L	5/4/2016 18:09
Tetrachloroethene	< 2.00	ug/L	5/4/2016 18:09
Toluene	< 2.00	ug/L	5/4/2016 18:09
trans-1,2-Dichloroethene	< 2.00	ug/L	5/4/2016 18:09
trans-1,3-Dichloropropene	< 2.00	ug/L	5/4/2016 18:09
Trichloroethene	< 2.00	ug/L	5/4/2016 18:09
Trichlorofluoromethane	< 2.00	ug/L	5/4/2016 18:09
Vinyl chloride	2.75	ug/L	5/4/2016 18:09

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Report Prepared Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-1-PS6

Lab Sample ID: 161713-01

Date Sampled: 5/2/2016

Matrix: Groundwater

Date Received: 5/3/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	105	81.1 - 122		5/4/2016	18:09
4-Bromofluorobenzene	94.7	78.7 - 116		5/4/2016	18:09
Pentafluorobenzene	104	88.6 - 112		5/4/2016	18:09
Toluene-D8	100	88.9 - 110		5/4/2016	18:09

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x32069.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 Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-2-PS6

Lab Sample ID: 161713-02

Date Sampled: 5/2/2016

Matrix: Groundwater

Date Received: 5/3/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/4/2016 21:41
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/4/2016 21:41
1,1,2-Trichloroethane	< 2.00	ug/L		5/4/2016 21:41
1,1-Dichloroethane	< 2.00	ug/L		5/4/2016 21:41
1,1-Dichloroethene	< 2.00	ug/L		5/4/2016 21:41
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/4/2016 21:41
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/4/2016 21:41
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/4/2016 21:41
1,2-Dibromoethane	< 2.00	ug/L		5/4/2016 21:41
1,2-Dichlorobenzene	< 2.00	ug/L		5/4/2016 21:41
1,2-Dichloroethane	< 2.00	ug/L		5/4/2016 21:41
1,2-Dichloropropane	< 2.00	ug/L		5/4/2016 21:41
1,3-Dichlorobenzene	< 2.00	ug/L		5/4/2016 21:41
1,4-Dichlorobenzene	< 2.00	ug/L		5/4/2016 21:41
1,4-dioxane	< 20.0	ug/L		5/4/2016 21:41
2-Butanone	< 10.0	ug/L		5/4/2016 21:41
2-Hexanone	< 5.00	ug/L		5/4/2016 21:41
4-Methyl-2-pentanone	< 5.00	ug/L		5/4/2016 21:41
Acetone	< 10.0	ug/L		5/4/2016 21:41
Benzene	< 1.00	ug/L		5/4/2016 21:41
Bromochloromethane	< 5.00	ug/L		5/4/2016 21:41
Bromodichloromethane	< 2.00	ug/L		5/4/2016 21:41
Bromoform	< 5.00	ug/L		5/4/2016 21:41
Bromomethane	< 2.00	ug/L	M	5/4/2016 21:41
Carbon disulfide	< 2.00	ug/L		5/4/2016 21:41
Carbon Tetrachloride	< 2.00	ug/L		5/4/2016 21:41
Chlorobenzene	< 2.00	ug/L		5/4/2016 21:41

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Report Prepared Wednesday, May 11, 2016



Lab Project ID: 161713

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-RW-2-PS6

Lab Sample ID: 161713-02

Date Sampled: 5/2/2016

Matrix: Groundwater

Date Received: 5/3/2016

Chloroethane	< 2.00	ug/L	5/4/2016 21:41
Chloroform	< 2.00	ug/L	5/4/2016 21:41
Chloromethane	< 2.00	ug/L	5/4/2016 21:41
cis-1,2-Dichloroethene	< 2.00	ug/L	5/4/2016 21:41
cis-1,3-Dichloropropene	< 2.00	ug/L	5/4/2016 21:41
Cyclohexane	< 10.0	ug/L	5/4/2016 21:41
Dibromochloromethane	< 2.00	ug/L	5/4/2016 21:41
Dichlorodifluoromethane	< 2.00	ug/L	5/4/2016 21:41
Ethylbenzene	< 2.00	ug/L	5/4/2016 21:41
Freon 113	< 2.00	ug/L	5/4/2016 21:41
Isopropylbenzene	< 2.00	ug/L	5/4/2016 21:41
m,p-Xylene	< 2.00	ug/L	5/4/2016 21:41
Methyl acetate	< 2.00	ug/L	5/4/2016 21:41
Methyl tert-butyl Ether	< 2.00	ug/L	5/4/2016 21:41
Methylcyclohexane	< 2.00	ug/L	5/4/2016 21:41
Methylene chloride	< 5.00	ug/L	5/4/2016 21:41
o-Xylene	< 2.00	ug/L	5/4/2016 21:41
Styrene	< 5.00	ug/L	5/4/2016 21:41
Tetrachloroethene	< 2.00	ug/L	5/4/2016 21:41
Toluene	< 2.00	ug/L	5/4/2016 21:41
trans-1,2-Dichloroethene	< 2.00	ug/L	5/4/2016 21:41
trans-1,3-Dichloropropene	< 2.00	ug/L	5/4/2016 21:41
Trichloroethene	< 2.00	ug/L	5/4/2016 21:41
Trichlorofluoromethane	< 2.00	ug/L	5/4/2016 21:41
Vinyl chloride	< 2.00	ug/L	5/4/2016 21:41

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Report Prepared Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-2-PS6

Lab Sample ID: 161713-02

Date Sampled: 5/2/2016

Matrix: Groundwater

Date Received: 5/3/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	102	81.1 - 122		5/4/2016	21:41
4-Bromofluorobenzene	91.3	78.7 - 116		5/4/2016	21:41
Pentafluorobenzene	101	88.6 - 112		5/4/2016	21:41
Toluene-D8	98.6	88.9 - 110		5/4/2016	21:41

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x32078.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 Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-3-PS6

Lab Sample ID: 161713-03

Date Sampled: 5/2/2016

Matrix: Groundwater

Date Received: 5/3/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/4/2016 18:33
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/4/2016 18:33
1,1,2-Trichloroethane	< 2.00	ug/L		5/4/2016 18:33
1,1-Dichloroethane	< 2.00	ug/L		5/4/2016 18:33
1,1-Dichloroethene	< 2.00	ug/L		5/4/2016 18:33
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/4/2016 18:33
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/4/2016 18:33
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/4/2016 18:33
1,2-Dibromoethane	< 2.00	ug/L		5/4/2016 18:33
1,2-Dichlorobenzene	< 2.00	ug/L		5/4/2016 18:33
1,2-Dichloroethane	< 2.00	ug/L		5/4/2016 18:33
1,2-Dichloropropane	< 2.00	ug/L		5/4/2016 18:33
1,3-Dichlorobenzene	< 2.00	ug/L		5/4/2016 18:33
1,4-Dichlorobenzene	< 2.00	ug/L		5/4/2016 18:33
1,4-dioxane	< 20.0	ug/L		5/4/2016 18:33
2-Butanone	< 10.0	ug/L		5/4/2016 18:33
2-Hexanone	< 5.00	ug/L		5/4/2016 18:33
4-Methyl-2-pentanone	< 5.00	ug/L		5/4/2016 18:33
Acetone	< 10.0	ug/L		5/4/2016 18:33
Benzene	< 1.00	ug/L		5/4/2016 18:33
Bromochloromethane	< 5.00	ug/L		5/4/2016 18:33
Bromodichloromethane	< 2.00	ug/L		5/4/2016 18:33
Bromoform	< 5.00	ug/L		5/4/2016 18:33
Bromomethane	< 2.00	ug/L		5/4/2016 18:33
Carbon disulfide	< 2.00	ug/L		5/4/2016 18:33
Carbon Tetrachloride	< 2.00	ug/L		5/4/2016 18:33
Chlorobenzene	< 2.00	ug/L		5/4/2016 18:33

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Report Prepared Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-3-PS6

Lab Sample ID: 161713-03

Date Sampled: 5/2/2016

Matrix: Groundwater

Date Received: 5/3/2016

Chloroethane	< 2.00	ug/L		5/4/2016 18:33
Chloroform	< 2.00	ug/L		5/4/2016 18:33
Chloromethane	< 2.00	ug/L		5/4/2016 18:33
cis-1,2-Dichloroethene	< 2.00	ug/L		5/4/2016 18:33
cis-1,3-Dichloropropene	< 2.00	ug/L		5/4/2016 18:33
Cyclohexane	< 10.0	ug/L		5/4/2016 18:33
Dibromochloromethane	< 2.00	ug/L		5/4/2016 18:33
Dichlorodifluoromethane	< 2.00	ug/L		5/4/2016 18:33
Ethylbenzene	< 2.00	ug/L		5/4/2016 18:33
Freon 113	< 2.00	ug/L		5/4/2016 18:33
Isopropylbenzene	< 2.00	ug/L		5/4/2016 18:33
m,p-Xylene	< 2.00	ug/L		5/4/2016 18:33
Methyl acetate	< 2.00	ug/L		5/4/2016 18:33
Methyl tert-butyl Ether	1.78	ug/L	J	5/4/2016 18:33
Methylcyclohexane	< 2.00	ug/L		5/4/2016 18:33
Methylene chloride	< 5.00	ug/L		5/4/2016 18:33
o-Xylene	< 2.00	ug/L		5/4/2016 18:33
Styrene	< 5.00	ug/L		5/4/2016 18:33
Tetrachloroethene	< 2.00	ug/L		5/4/2016 18:33
Toluene	< 2.00	ug/L		5/4/2016 18:33
trans-1,2-Dichloroethene	1.32	ug/L	J	5/4/2016 18:33
trans-1,3-Dichloropropene	< 2.00	ug/L		5/4/2016 18:33
Trichloroethene	< 2.00	ug/L		5/4/2016 18:33
Trichlorofluoromethane	< 2.00	ug/L		5/4/2016 18:33
Vinyl chloride	< 2.00	ug/L		5/4/2016 18:33

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Report Prepared Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-3-PS6

Lab Sample ID: 161713-03

Date Sampled: 5/2/2016

Matrix: Groundwater

Date Received: 5/3/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	102	81.1 - 122		5/4/2016	18:33
4-Bromofluorobenzene	92.2	78.7 - 116		5/4/2016	18:33
Pentafluorobenzene	104	88.6 - 112		5/4/2016	18:33
Toluene-D8	99.3	88.9 - 110		5/4/2016	18:33

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x32070.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 Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-4-PS6

Lab Sample ID: 161713-04

Date Sampled: 5/3/2016

Matrix: Groundwater

Date Received: 5/3/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/4/2016 18:56
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/4/2016 18:56
1,1,2-Trichloroethane	< 2.00	ug/L		5/4/2016 18:56
1,1-Dichloroethane	< 2.00	ug/L		5/4/2016 18:56
1,1-Dichloroethene	< 2.00	ug/L		5/4/2016 18:56
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/4/2016 18:56
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/4/2016 18:56
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/4/2016 18:56
1,2-Dibromoethane	< 2.00	ug/L		5/4/2016 18:56
1,2-Dichlorobenzene	< 2.00	ug/L		5/4/2016 18:56
1,2-Dichloroethane	< 2.00	ug/L		5/4/2016 18:56
1,2-Dichloropropane	< 2.00	ug/L		5/4/2016 18:56
1,3-Dichlorobenzene	< 2.00	ug/L		5/4/2016 18:56
1,4-Dichlorobenzene	< 2.00	ug/L		5/4/2016 18:56
1,4-dioxane	< 20.0	ug/L		5/4/2016 18:56
2-Butanone	16.1	ug/L		5/4/2016 18:56
2-Hexanone	< 5.00	ug/L		5/4/2016 18:56
4-Methyl-2-pentanone	< 5.00	ug/L		5/4/2016 18:56
Acetone	9.13	ug/L	J	5/4/2016 18:56
Benzene	< 1.00	ug/L		5/4/2016 18:56
Bromochloromethane	< 5.00	ug/L		5/4/2016 18:56
Bromodichloromethane	< 2.00	ug/L		5/4/2016 18:56
Bromoform	< 5.00	ug/L		5/4/2016 18:56
Bromomethane	< 2.00	ug/L		5/4/2016 18:56
Carbon disulfide	< 2.00	ug/L		5/4/2016 18:56
Carbon Tetrachloride	< 2.00	ug/L		5/4/2016 18:56
Chlorobenzene	< 2.00	ug/L		5/4/2016 18:56

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Report Prepared Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-4-PS6

Lab Sample ID: 161713-04

Date Sampled: 5/3/2016

Matrix: Groundwater

Date Received: 5/3/2016

Chloroethane	< 2.00	ug/L	5/4/2016 18:56
Chloroform	< 2.00	ug/L	5/4/2016 18:56
Chloromethane	< 2.00	ug/L	5/4/2016 18:56
cis-1,2-Dichloroethene	< 2.00	ug/L	5/4/2016 18:56
cis-1,3-Dichloropropene	< 2.00	ug/L	5/4/2016 18:56
Cyclohexane	< 10.0	ug/L	5/4/2016 18:56
Dibromochloromethane	< 2.00	ug/L	5/4/2016 18:56
Dichlorodifluoromethane	< 2.00	ug/L	5/4/2016 18:56
Ethylbenzene	< 2.00	ug/L	5/4/2016 18:56
Freon 113	< 2.00	ug/L	5/4/2016 18:56
Isopropylbenzene	< 2.00	ug/L	5/4/2016 18:56
m,p-Xylene	< 2.00	ug/L	5/4/2016 18:56
Methyl acetate	< 2.00	ug/L	5/4/2016 18:56
Methyl tert-butyl Ether	< 2.00	ug/L	5/4/2016 18:56
Methylcyclohexane	< 2.00	ug/L	5/4/2016 18:56
Methylene chloride	< 5.00	ug/L	5/4/2016 18:56
o-Xylene	< 2.00	ug/L	5/4/2016 18:56
Styrene	< 5.00	ug/L	5/4/2016 18:56
Tetrachloroethene	< 2.00	ug/L	5/4/2016 18:56
Toluene	< 2.00	ug/L	5/4/2016 18:56
trans-1,2-Dichloroethene	< 2.00	ug/L	5/4/2016 18:56
trans-1,3-Dichloropropene	< 2.00	ug/L	5/4/2016 18:56
Trichloroethene	< 2.00	ug/L	5/4/2016 18:56
Trichlorofluoromethane	< 2.00	ug/L	5/4/2016 18:56
Vinyl chloride	1.94	ug/L	J 5/4/2016 18:56

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 Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-4-PS6

Lab Sample ID: 161713-04

Date Sampled: 5/3/2016

Matrix: Groundwater

Date Received: 5/3/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	102	81.1 - 122		5/4/2016	18:56
4-Bromofluorobenzene	93.7	78.7 - 116		5/4/2016	18:56
Pentafluorobenzene	103	88.6 - 112		5/4/2016	18:56
Toluene-D8	101	88.9 - 110		5/4/2016	18:56

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x32071.D

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Report Prepared Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-5-PS6

Lab Sample ID: 161713-05

Date Sampled: 5/3/2016

Matrix: Groundwater

Date Received: 5/3/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/4/2016 19:20
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/4/2016 19:20
1,1,2-Trichloroethane	< 2.00	ug/L		5/4/2016 19:20
1,1-Dichloroethane	< 2.00	ug/L		5/4/2016 19:20
1,1-Dichloroethene	< 2.00	ug/L		5/4/2016 19:20
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/4/2016 19:20
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/4/2016 19:20
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/4/2016 19:20
1,2-Dibromoethane	< 2.00	ug/L		5/4/2016 19:20
1,2-Dichlorobenzene	< 2.00	ug/L		5/4/2016 19:20
1,2-Dichloroethane	< 2.00	ug/L		5/4/2016 19:20
1,2-Dichloropropane	< 2.00	ug/L		5/4/2016 19:20
1,3-Dichlorobenzene	< 2.00	ug/L		5/4/2016 19:20
1,4-Dichlorobenzene	< 2.00	ug/L		5/4/2016 19:20
1,4-dioxane	< 20.0	ug/L		5/4/2016 19:20
2-Butanone	< 10.0	ug/L		5/4/2016 19:20
2-Hexanone	< 5.00	ug/L		5/4/2016 19:20
4-Methyl-2-pentanone	< 5.00	ug/L		5/4/2016 19:20
Acetone	< 10.0	ug/L		5/4/2016 19:20
Benzene	< 1.00	ug/L		5/4/2016 19:20
Bromochloromethane	< 5.00	ug/L		5/4/2016 19:20
Bromodichloromethane	< 2.00	ug/L		5/4/2016 19:20
Bromoform	< 5.00	ug/L		5/4/2016 19:20
Bromomethane	< 2.00	ug/L		5/4/2016 19:20
Carbon disulfide	< 2.00	ug/L		5/4/2016 19:20
Carbon Tetrachloride	< 2.00	ug/L		5/4/2016 19:20
Chlorobenzene	< 2.00	ug/L		5/4/2016 19:20

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Report Prepared Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-5-PS6

Lab Sample ID: 161713-05

Date Sampled: 5/3/2016

Matrix: Groundwater

Date Received: 5/3/2016

Chloroethane	< 2.00	ug/L	5/4/2016 19:20
Chloroform	< 2.00	ug/L	5/4/2016 19:20
Chloromethane	< 2.00	ug/L	5/4/2016 19:20
cis-1,2-Dichloroethene	< 2.00	ug/L	5/4/2016 19:20
cis-1,3-Dichloropropene	< 2.00	ug/L	5/4/2016 19:20
Cyclohexane	< 10.0	ug/L	5/4/2016 19:20
Dibromochloromethane	< 2.00	ug/L	5/4/2016 19:20
Dichlorodifluoromethane	< 2.00	ug/L	5/4/2016 19:20
Ethylbenzene	< 2.00	ug/L	5/4/2016 19:20
Freon 113	< 2.00	ug/L	5/4/2016 19:20
Isopropylbenzene	< 2.00	ug/L	5/4/2016 19:20
m,p-Xylene	< 2.00	ug/L	5/4/2016 19:20
Methyl acetate	< 2.00	ug/L	5/4/2016 19:20
Methyl tert-butyl Ether	< 2.00	ug/L	5/4/2016 19:20
Methylcyclohexane	< 2.00	ug/L	5/4/2016 19:20
Methylene chloride	< 5.00	ug/L	5/4/2016 19:20
o-Xylene	< 2.00	ug/L	5/4/2016 19:20
Styrene	< 5.00	ug/L	5/4/2016 19:20
Tetrachloroethene	< 2.00	ug/L	5/4/2016 19:20
Toluene	< 2.00	ug/L	5/4/2016 19:20
trans-1,2-Dichloroethene	< 2.00	ug/L	5/4/2016 19:20
trans-1,3-Dichloropropene	< 2.00	ug/L	5/4/2016 19:20
Trichloroethene	< 2.00	ug/L	5/4/2016 19:20
Trichlorofluoromethane	< 2.00	ug/L	5/4/2016 19:20
Vinyl chloride	< 2.00	ug/L	5/4/2016 19:20

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Report Prepared Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-5-PS6

Lab Sample ID: 161713-05

Date Sampled: 5/3/2016

Matrix: Groundwater

Date Received: 5/3/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	103	81.1 - 122		5/4/2016	19:20
4-Bromofluorobenzene	94.0	78.7 - 116		5/4/2016	19:20
Pentafluorobenzene	102	88.6 - 112		5/4/2016	19:20
Toluene-D8	100	88.9 - 110		5/4/2016	19:20

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x32072.D

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Report Prepared Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-6-PS6

Lab Sample ID: 161713-06

Date Sampled: 5/3/2016

Matrix: Groundwater

Date Received: 5/3/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 20.0	ug/L		5/4/2016 17:46
1,1,2,2-Tetrachloroethane	< 20.0	ug/L		5/4/2016 17:46
1,1,2-Trichloroethane	< 20.0	ug/L		5/4/2016 17:46
1,1-Dichloroethane	< 20.0	ug/L		5/4/2016 17:46
1,1-Dichloroethene	< 20.0	ug/L		5/4/2016 17:46
1,2,3-Trichlorobenzene	< 50.0	ug/L		5/4/2016 17:46
1,2,4-Trichlorobenzene	< 50.0	ug/L		5/4/2016 17:46
1,2-Dibromo-3-Chloropropane	< 100	ug/L		5/4/2016 17:46
1,2-Dibromoethane	< 20.0	ug/L		5/4/2016 17:46
1,2-Dichlorobenzene	< 20.0	ug/L		5/4/2016 17:46
1,2-Dichloroethane	< 20.0	ug/L		5/4/2016 17:46
1,2-Dichloropropane	< 20.0	ug/L		5/4/2016 17:46
1,3-Dichlorobenzene	< 20.0	ug/L		5/4/2016 17:46
1,4-Dichlorobenzene	< 20.0	ug/L		5/4/2016 17:46
1,4-dioxane	< 200	ug/L		5/4/2016 17:46
2-Butanone	< 100	ug/L		5/4/2016 17:46
2-Hexanone	< 50.0	ug/L		5/4/2016 17:46
4-Methyl-2-pentanone	< 50.0	ug/L		5/4/2016 17:46
Acetone	< 100	ug/L		5/4/2016 17:46
Benzene	< 10.0	ug/L		5/4/2016 17:46
Bromochloromethane	< 50.0	ug/L		5/4/2016 17:46
Bromodichloromethane	< 20.0	ug/L		5/4/2016 17:46
Bromoform	< 50.0	ug/L		5/4/2016 17:46
Bromomethane	< 20.0	ug/L		5/4/2016 17:46
Carbon disulfide	< 20.0	ug/L		5/4/2016 17:46
Carbon Tetrachloride	< 20.0	ug/L		5/4/2016 17:46
Chlorobenzene	< 20.0	ug/L		5/4/2016 17:46

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Report Prepared Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:	LI-RW-6-PS6			
Lab Sample ID:	161713-06		Date Sampled:	5/3/2016
Matrix:	Groundwater		Date Received:	5/3/2016
Chloroethane	< 20.0	ug/L		5/4/2016 17:46
Chloroform	< 20.0	ug/L		5/4/2016 17:46
Chloromethane	< 20.0	ug/L		5/4/2016 17:46
cis-1,2-Dichloroethene	1910	ug/L		5/4/2016 17:46
cis-1,3-Dichloropropene	< 20.0	ug/L		5/4/2016 17:46
Cyclohexane	< 100	ug/L		5/4/2016 17:46
Dibromochloromethane	< 20.0	ug/L		5/4/2016 17:46
Dichlorodifluoromethane	< 20.0	ug/L		5/4/2016 17:46
Ethylbenzene	< 20.0	ug/L		5/4/2016 17:46
Freon 113	< 20.0	ug/L		5/4/2016 17:46
Isopropylbenzene	< 20.0	ug/L		5/4/2016 17:46
m,p-Xylene	< 20.0	ug/L		5/4/2016 17:46
Methyl acetate	< 20.0	ug/L		5/4/2016 17:46
Methyl tert-butyl Ether	< 20.0	ug/L		5/4/2016 17:46
Methylcyclohexane	< 20.0	ug/L		5/4/2016 17:46
Methylene chloride	< 50.0	ug/L		5/4/2016 17:46
o-Xylene	< 20.0	ug/L		5/4/2016 17:46
Styrene	< 50.0	ug/L		5/4/2016 17:46
Tetrachloroethene	< 20.0	ug/L		5/4/2016 17:46
Toluene	< 20.0	ug/L		5/4/2016 17:46
trans-1,2-Dichloroethene	18.0	ug/L	J	5/4/2016 17:46
trans-1,3-Dichloropropene	< 20.0	ug/L		5/4/2016 17:46
Trichloroethene	< 20.0	ug/L		5/4/2016 17:46
Trichlorofluoromethane	< 20.0	ug/L		5/4/2016 17:46
Vinyl chloride	624	ug/L		5/4/2016 17:46

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Report Prepared Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-6-PS6

Lab Sample ID: 161713-06

Date Sampled: 5/3/2016

Matrix: Groundwater

Date Received: 5/3/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	102	81.1 - 122		5/4/2016	17:46
4-Bromofluorobenzene	96.2	78.7 - 116		5/4/2016	17:46
Pentafluorobenzene	106	88.6 - 112		5/4/2016	17:46
Toluene-D8	101	88.9 - 110		5/4/2016	17:46

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x32068.D

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Report Prepared Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-7-PS6

Lab Sample ID: 161713-07

Matrix: Groundwater

Date Sampled: 5/3/2016

Date Received: 5/3/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/4/2016 19:43
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/4/2016 19:43
1,1,2-Trichloroethane	< 2.00	ug/L		5/4/2016 19:43
1,1-Dichloroethane	< 2.00	ug/L		5/4/2016 19:43
1,1-Dichloroethene	< 2.00	ug/L		5/4/2016 19:43
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/4/2016 19:43
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/4/2016 19:43
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/4/2016 19:43
1,2-Dibromoethane	< 2.00	ug/L		5/4/2016 19:43
1,2-Dichlorobenzene	< 2.00	ug/L		5/4/2016 19:43
1,2-Dichloroethane	< 2.00	ug/L		5/4/2016 19:43
1,2-Dichloropropane	< 2.00	ug/L		5/4/2016 19:43
1,3-Dichlorobenzene	< 2.00	ug/L		5/4/2016 19:43
1,4-Dichlorobenzene	< 2.00	ug/L		5/4/2016 19:43
1,4-dioxane	< 20.0	ug/L		5/4/2016 19:43
2-Butanone	< 10.0	ug/L		5/4/2016 19:43
2-Hexanone	< 5.00	ug/L		5/4/2016 19:43
4-Methyl-2-pentanone	< 5.00	ug/L		5/4/2016 19:43
Acetone	< 10.0	ug/L		5/4/2016 19:43
Benzene	< 1.00	ug/L		5/4/2016 19:43
Bromochloromethane	< 5.00	ug/L		5/4/2016 19:43
Bromodichloromethane	< 2.00	ug/L		5/4/2016 19:43
Bromoform	< 5.00	ug/L		5/4/2016 19:43
Bromomethane	< 2.00	ug/L		5/4/2016 19:43
Carbon disulfide	< 2.00	ug/L		5/4/2016 19:43
Carbon Tetrachloride	< 2.00	ug/L		5/4/2016 19:43
Chlorobenzene	< 2.00	ug/L		5/4/2016 19:43

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Report Prepared Wednesday, May 11, 2016



Lab Project ID: 161713

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-RW-7-PS6

Lab Sample ID: 161713-07

Date Sampled: 5/3/2016

Matrix: Groundwater

Date Received: 5/3/2016

Chloroethane	< 2.00	ug/L		5/4/2016 19:43
Chloroform	< 2.00	ug/L		5/4/2016 19:43
Chloromethane	< 2.00	ug/L		5/4/2016 19:43
cis-1,2-Dichloroethene	< 2.00	ug/L		5/4/2016 19:43
cis-1,3-Dichloropropene	< 2.00	ug/L		5/4/2016 19:43
Cyclohexane	< 10.0	ug/L		5/4/2016 19:43
Dibromochloromethane	< 2.00	ug/L		5/4/2016 19:43
Dichlorodifluoromethane	< 2.00	ug/L		5/4/2016 19:43
Ethylbenzene	< 2.00	ug/L		5/4/2016 19:43
Freon 113	< 2.00	ug/L		5/4/2016 19:43
Isopropylbenzene	< 2.00	ug/L		5/4/2016 19:43
m,p-Xylene	< 2.00	ug/L		5/4/2016 19:43
Methyl acetate	< 2.00	ug/L		5/4/2016 19:43
Methyl tert-butyl Ether	1.41	ug/L	J	5/4/2016 19:43
Methylcyclohexane	< 2.00	ug/L		5/4/2016 19:43
Methylene chloride	< 5.00	ug/L		5/4/2016 19:43
o-Xylene	< 2.00	ug/L		5/4/2016 19:43
Styrene	< 5.00	ug/L		5/4/2016 19:43
Tetrachloroethene	< 2.00	ug/L		5/4/2016 19:43
Toluene	< 2.00	ug/L		5/4/2016 19:43
trans-1,2-Dichloroethene	< 2.00	ug/L		5/4/2016 19:43
trans-1,3-Dichloropropene	< 2.00	ug/L		5/4/2016 19:43
Trichloroethene	< 2.00	ug/L		5/4/2016 19:43
Trichlorofluoromethane	< 2.00	ug/L		5/4/2016 19:43
Vinyl chloride	< 2.00	ug/L		5/4/2016 19:43

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Report Prepared Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-7-PS6

Lab Sample ID: 161713-07

Date Sampled: 5/3/2016

Matrix: Groundwater

Date Received: 5/3/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	104	81.1 - 122		5/4/2016	19:43
4-Bromofluorobenzene	91.0	78.7 - 116		5/4/2016	19:43
Pentafluorobenzene	103	88.6 - 112		5/4/2016	19:43
Toluene-D8	99.5	88.9 - 110		5/4/2016	19:43

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x32073.D

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Report Prepared Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-9-PS6

Lab Sample ID: 161713-08

Date Sampled: 5/2/2016

Matrix: Groundwater

Date Received: 5/3/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/4/2016 20:07
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/4/2016 20:07
1,1,2-Trichloroethane	< 2.00	ug/L		5/4/2016 20:07
1,1-Dichloroethane	< 2.00	ug/L		5/4/2016 20:07
1,1-Dichloroethene	< 2.00	ug/L		5/4/2016 20:07
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/4/2016 20:07
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/4/2016 20:07
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/4/2016 20:07
1,2-Dibromoethane	< 2.00	ug/L		5/4/2016 20:07
1,2-Dichlorobenzene	< 2.00	ug/L		5/4/2016 20:07
1,2-Dichloroethane	< 2.00	ug/L		5/4/2016 20:07
1,2-Dichloropropane	< 2.00	ug/L		5/4/2016 20:07
1,3-Dichlorobenzene	< 2.00	ug/L		5/4/2016 20:07
1,4-Dichlorobenzene	< 2.00	ug/L		5/4/2016 20:07
1,4-dioxane	< 20.0	ug/L		5/4/2016 20:07
2-Butanone	< 10.0	ug/L		5/4/2016 20:07
2-Hexanone	< 5.00	ug/L		5/4/2016 20:07
4-Methyl-2-pentanone	< 5.00	ug/L		5/4/2016 20:07
Acetone	< 10.0	ug/L		5/4/2016 20:07
Benzene	< 1.00	ug/L		5/4/2016 20:07
Bromochloromethane	< 5.00	ug/L		5/4/2016 20:07
Bromodichloromethane	< 2.00	ug/L		5/4/2016 20:07
Bromoform	< 5.00	ug/L		5/4/2016 20:07
Bromomethane	< 2.00	ug/L		5/4/2016 20:07
Carbon disulfide	< 2.00	ug/L		5/4/2016 20:07
Carbon Tetrachloride	< 2.00	ug/L		5/4/2016 20:07
Chlorobenzene	< 2.00	ug/L		5/4/2016 20:07

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Report Prepared Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-9-PS6

Lab Sample ID: 161713-08

Date Sampled: 5/2/2016

Matrix: Groundwater

Date Received: 5/3/2016

Chloroethane	< 2.00	ug/L	5/4/2016 20:07
Chloroform	< 2.00	ug/L	5/4/2016 20:07
Chloromethane	< 2.00	ug/L	5/4/2016 20:07
cis-1,2-Dichloroethene	< 2.00	ug/L	5/4/2016 20:07
cis-1,3-Dichloropropene	< 2.00	ug/L	5/4/2016 20:07
Cyclohexane	< 10.0	ug/L	5/4/2016 20:07
Dibromochloromethane	< 2.00	ug/L	5/4/2016 20:07
Dichlorodifluoromethane	< 2.00	ug/L	5/4/2016 20:07
Ethylbenzene	< 2.00	ug/L	5/4/2016 20:07
Freon 113	< 2.00	ug/L	5/4/2016 20:07
Isopropylbenzene	< 2.00	ug/L	5/4/2016 20:07
m,p-Xylene	< 2.00	ug/L	5/4/2016 20:07
Methyl acetate	< 2.00	ug/L	5/4/2016 20:07
Methyl tert-butyl Ether	< 2.00	ug/L	5/4/2016 20:07
Methylcyclohexane	< 2.00	ug/L	5/4/2016 20:07
Methylene chloride	< 5.00	ug/L	5/4/2016 20:07
o-Xylene	< 2.00	ug/L	5/4/2016 20:07
Styrene	< 5.00	ug/L	5/4/2016 20:07
Tetrachloroethene	6.51	ug/L	5/4/2016 20:07
Toluene	< 2.00	ug/L	5/4/2016 20:07
trans-1,2-Dichloroethene	< 2.00	ug/L	5/4/2016 20:07
trans-1,3-Dichloropropene	< 2.00	ug/L	5/4/2016 20:07
Trichloroethene	< 2.00	ug/L	5/4/2016 20:07
Trichlorofluoromethane	< 2.00	ug/L	5/4/2016 20:07
Vinyl chloride	< 2.00	ug/L	5/4/2016 20:07

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Report Prepared Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-9-PS6

Lab Sample ID: 161713-08

Date Sampled: 5/2/2016

Matrix: Groundwater

Date Received: 5/3/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	101	81.1 - 122		5/4/2016	20:07
4-Bromofluorobenzene	92.2	78.7 - 116		5/4/2016	20:07
Pentafluorobenzene	102	88.6 - 112		5/4/2016	20:07
Toluene-D8	101	88.9 - 110		5/4/2016	20:07

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x32074.D

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Report Prepared Wednesday, May 11, 2016



Lab Project ID: 161713

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-RW-12-PS6

Lab Sample ID: 161713-09

Matrix: Groundwater

Date Sampled: 5/3/2016

Date Received: 5/3/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/4/2016 20:30
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/4/2016 20:30
1,1,2-Trichloroethane	< 2.00	ug/L		5/4/2016 20:30
1,1-Dichloroethane	< 2.00	ug/L		5/4/2016 20:30
1,1-Dichloroethene	< 2.00	ug/L		5/4/2016 20:30
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/4/2016 20:30
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/4/2016 20:30
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/4/2016 20:30
1,2-Dibromoethane	< 2.00	ug/L		5/4/2016 20:30
1,2-Dichlorobenzene	< 2.00	ug/L		5/4/2016 20:30
1,2-Dichloroethane	< 2.00	ug/L		5/4/2016 20:30
1,2-Dichloropropane	< 2.00	ug/L		5/4/2016 20:30
1,3-Dichlorobenzene	< 2.00	ug/L		5/4/2016 20:30
1,4-Dichlorobenzene	< 2.00	ug/L		5/4/2016 20:30
1,4-dioxane	< 20.0	ug/L		5/4/2016 20:30
2-Butanone	< 10.0	ug/L		5/4/2016 20:30
2-Hexanone	< 5.00	ug/L		5/4/2016 20:30
4-Methyl-2-pentanone	< 5.00	ug/L		5/4/2016 20:30
Acetone	< 10.0	ug/L		5/4/2016 20:30
Benzene	< 1.00	ug/L		5/4/2016 20:30
Bromochloromethane	< 5.00	ug/L		5/4/2016 20:30
Bromodichloromethane	< 2.00	ug/L		5/4/2016 20:30
Bromoform	< 5.00	ug/L		5/4/2016 20:30
Bromomethane	< 2.00	ug/L		5/4/2016 20:30
Carbon disulfide	< 2.00	ug/L		5/4/2016 20:30
Carbon Tetrachloride	< 2.00	ug/L		5/4/2016 20:30
Chlorobenzene	< 2.00	ug/L		5/4/2016 20:30

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Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-12-PS6

Lab Sample ID: 161713-09

Date Sampled: 5/3/2016

Matrix: Groundwater

Date Received: 5/3/2016

Chloroethane	< 2.00	ug/L	5/4/2016 20:30
Chloroform	< 2.00	ug/L	5/4/2016 20:30
Chloromethane	< 2.00	ug/L	5/4/2016 20:30
cis-1,2-Dichloroethene	2.44	ug/L	5/4/2016 20:30
cis-1,3-Dichloropropene	< 2.00	ug/L	5/4/2016 20:30
Cyclohexane	< 10.0	ug/L	5/4/2016 20:30
Dibromochloromethane	< 2.00	ug/L	5/4/2016 20:30
Dichlorodifluoromethane	< 2.00	ug/L	5/4/2016 20:30
Ethylbenzene	< 2.00	ug/L	5/4/2016 20:30
Freon 113	< 2.00	ug/L	5/4/2016 20:30
Isopropylbenzene	< 2.00	ug/L	5/4/2016 20:30
m,p-Xylene	< 2.00	ug/L	5/4/2016 20:30
Methyl acetate	< 2.00	ug/L	5/4/2016 20:30
Methyl tert-butyl Ether	< 2.00	ug/L	5/4/2016 20:30
Methylcyclohexane	< 2.00	ug/L	5/4/2016 20:30
Methylene chloride	< 5.00	ug/L	5/4/2016 20:30
o-Xylene	< 2.00	ug/L	5/4/2016 20:30
Styrene	< 5.00	ug/L	5/4/2016 20:30
Tetrachloroethene	1.68	ug/L	J 5/4/2016 20:30
Toluene	< 2.00	ug/L	5/4/2016 20:30
trans-1,2-Dichloroethene	< 2.00	ug/L	5/4/2016 20:30
trans-1,3-Dichloropropene	< 2.00	ug/L	5/4/2016 20:30
Trichloroethene	2.51	ug/L	5/4/2016 20:30
Trichlorofluoromethane	< 2.00	ug/L	5/4/2016 20:30
Vinyl chloride	< 2.00	ug/L	5/4/2016 20:30

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Report Prepared Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-12-PS6

Lab Sample ID: 161713-09

Date Sampled: 5/3/2016

Matrix: Groundwater

Date Received: 5/3/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	107	81.1 - 122		5/4/2016	20:30
4-Bromofluorobenzene	92.7	78.7 - 116		5/4/2016	20:30
Pentafluorobenzene	101	88.6 - 112		5/4/2016	20:30
Toluene-D8	100	88.9 - 110		5/4/2016	20:30

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x32075.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 Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B102-MW-PS6

Lab Sample ID: 161713-10

Date Sampled: 5/3/2016

Matrix: Groundwater

Date Received: 5/3/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/4/2016 20:54
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/4/2016 20:54
1,1,2-Trichloroethane	< 2.00	ug/L		5/4/2016 20:54
1,1-Dichloroethane	< 2.00	ug/L		5/4/2016 20:54
1,1-Dichloroethene	< 2.00	ug/L		5/4/2016 20:54
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/4/2016 20:54
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/4/2016 20:54
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/4/2016 20:54
1,2-Dibromoethane	< 2.00	ug/L		5/4/2016 20:54
1,2-Dichlorobenzene	< 2.00	ug/L		5/4/2016 20:54
1,2-Dichloroethane	< 2.00	ug/L		5/4/2016 20:54
1,2-Dichloropropane	< 2.00	ug/L		5/4/2016 20:54
1,3-Dichlorobenzene	< 2.00	ug/L		5/4/2016 20:54
1,4-Dichlorobenzene	< 2.00	ug/L		5/4/2016 20:54
1,4-dioxane	< 20.0	ug/L		5/4/2016 20:54
2-Butanone	< 10.0	ug/L		5/4/2016 20:54
2-Hexanone	< 5.00	ug/L		5/4/2016 20:54
4-Methyl-2-pentanone	< 5.00	ug/L		5/4/2016 20:54
Acetone	< 10.0	ug/L		5/4/2016 20:54
Benzene	< 1.00	ug/L		5/4/2016 20:54
Bromochloromethane	< 5.00	ug/L		5/4/2016 20:54
Bromodichloromethane	< 2.00	ug/L		5/4/2016 20:54
Bromoform	< 5.00	ug/L		5/4/2016 20:54
Bromomethane	< 2.00	ug/L		5/4/2016 20:54
Carbon disulfide	< 2.00	ug/L		5/4/2016 20:54
Carbon Tetrachloride	< 2.00	ug/L		5/4/2016 20:54
Chlorobenzene	< 2.00	ug/L		5/4/2016 20:54

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Report Prepared Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B102-MW-PS6

Lab Sample ID: 161713-10

Date Sampled: 5/3/2016

Matrix: Groundwater

Date Received: 5/3/2016

Chloroethane	< 2.00	ug/L	5/4/2016 20:54
Chloroform	< 2.00	ug/L	5/4/2016 20:54
Chloromethane	< 2.00	ug/L	5/4/2016 20:54
cis-1,2-Dichloroethene	< 2.00	ug/L	5/4/2016 20:54
cis-1,3-Dichloropropene	< 2.00	ug/L	5/4/2016 20:54
Cyclohexane	< 10.0	ug/L	5/4/2016 20:54
Dibromochloromethane	< 2.00	ug/L	5/4/2016 20:54
Dichlorodifluoromethane	< 2.00	ug/L	5/4/2016 20:54
Ethylbenzene	< 2.00	ug/L	5/4/2016 20:54
Freon 113	< 2.00	ug/L	5/4/2016 20:54
Isopropylbenzene	< 2.00	ug/L	5/4/2016 20:54
m,p-Xylene	< 2.00	ug/L	5/4/2016 20:54
Methyl acetate	< 2.00	ug/L	5/4/2016 20:54
Methyl tert-butyl Ether	< 2.00	ug/L	5/4/2016 20:54
Methylcyclohexane	< 2.00	ug/L	5/4/2016 20:54
Methylene chloride	< 5.00	ug/L	5/4/2016 20:54
o-Xylene	< 2.00	ug/L	5/4/2016 20:54
Styrene	< 5.00	ug/L	5/4/2016 20:54
Tetrachloroethene	< 2.00	ug/L	5/4/2016 20:54
Toluene	< 2.00	ug/L	5/4/2016 20:54
trans-1,2-Dichloroethene	< 2.00	ug/L	5/4/2016 20:54
trans-1,3-Dichloropropene	< 2.00	ug/L	5/4/2016 20:54
Trichloroethene	< 2.00	ug/L	5/4/2016 20:54
Trichlorofluoromethane	< 2.00	ug/L	5/4/2016 20:54
Vinyl chloride	< 2.00	ug/L	5/4/2016 20:54

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Report Prepared Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B102-MW-PS6

Lab Sample ID: 161713-10

Date Sampled: 5/3/2016

Matrix: Groundwater

Date Received: 5/3/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	103	81.1 - 122		5/4/2016	20:54
4-Bromofluorobenzene	91.2	78.7 - 116		5/4/2016	20:54
Pentafluorobenzene	102	88.6 - 112		5/4/2016	20:54
Toluene-D8	98.4	88.9 - 110		5/4/2016	20:54

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x32076.D

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Report Prepared Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B106-MW-PS6

Lab Sample ID: 161713-11

Date Sampled: 5/2/2016

Matrix: Groundwater

Date Received: 5/3/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/4/2016 21:17
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/4/2016 21:17
1,1,2-Trichloroethane	< 2.00	ug/L		5/4/2016 21:17
1,1-Dichloroethane	< 2.00	ug/L		5/4/2016 21:17
1,1-Dichloroethene	< 2.00	ug/L		5/4/2016 21:17
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/4/2016 21:17
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/4/2016 21:17
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/4/2016 21:17
1,2-Dibromoethane	< 2.00	ug/L		5/4/2016 21:17
1,2-Dichlorobenzene	< 2.00	ug/L		5/4/2016 21:17
1,2-Dichloroethane	< 2.00	ug/L		5/4/2016 21:17
1,2-Dichloropropane	< 2.00	ug/L		5/4/2016 21:17
1,3-Dichlorobenzene	< 2.00	ug/L		5/4/2016 21:17
1,4-Dichlorobenzene	< 2.00	ug/L		5/4/2016 21:17
1,4-dioxane	< 20.0	ug/L		5/4/2016 21:17
2-Butanone	< 10.0	ug/L		5/4/2016 21:17
2-Hexanone	< 5.00	ug/L		5/4/2016 21:17
4-Methyl-2-pentanone	< 5.00	ug/L		5/4/2016 21:17
Acetone	< 10.0	ug/L		5/4/2016 21:17
Benzene	< 1.00	ug/L		5/4/2016 21:17
Bromochloromethane	< 5.00	ug/L		5/4/2016 21:17
Bromodichloromethane	< 2.00	ug/L		5/4/2016 21:17
Bromoform	< 5.00	ug/L		5/4/2016 21:17
Bromomethane	< 2.00	ug/L		5/4/2016 21:17
Carbon disulfide	< 2.00	ug/L		5/4/2016 21:17
Carbon Tetrachloride	< 2.00	ug/L		5/4/2016 21:17
Chlorobenzene	< 2.00	ug/L		5/4/2016 21:17

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 Wednesday, May 11, 2016



Lab Project ID: 161713

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-B106-MW-PS6

Lab Sample ID: 161713-11

Date Sampled: 5/2/2016

Matrix: Groundwater

Date Received: 5/3/2016

Chloroethane	< 2.00	ug/L	5/4/2016 21:17
Chloroform	< 2.00	ug/L	5/4/2016 21:17
Chloromethane	< 2.00	ug/L	5/4/2016 21:17
cis-1,2-Dichloroethene	< 2.00	ug/L	5/4/2016 21:17
cis-1,3-Dichloropropene	< 2.00	ug/L	5/4/2016 21:17
Cyclohexane	< 10.0	ug/L	5/4/2016 21:17
Dibromochloromethane	< 2.00	ug/L	5/4/2016 21:17
Dichlorodifluoromethane	< 2.00	ug/L	5/4/2016 21:17
Ethylbenzene	< 2.00	ug/L	5/4/2016 21:17
Freon 113	< 2.00	ug/L	5/4/2016 21:17
Isopropylbenzene	< 2.00	ug/L	5/4/2016 21:17
m,p-Xylene	< 2.00	ug/L	5/4/2016 21:17
Methyl acetate	< 2.00	ug/L	5/4/2016 21:17
Methyl tert-butyl Ether	< 2.00	ug/L	5/4/2016 21:17
Methylcyclohexane	< 2.00	ug/L	5/4/2016 21:17
Methylene chloride	< 5.00	ug/L	5/4/2016 21:17
o-Xylene	< 2.00	ug/L	5/4/2016 21:17
Styrene	< 5.00	ug/L	5/4/2016 21:17
Tetrachloroethene	< 2.00	ug/L	5/4/2016 21:17
Toluene	< 2.00	ug/L	5/4/2016 21:17
trans-1,2-Dichloroethene	< 2.00	ug/L	5/4/2016 21:17
trans-1,3-Dichloropropene	< 2.00	ug/L	5/4/2016 21:17
Trichloroethene	< 2.00	ug/L	5/4/2016 21:17
Trichlorofluoromethane	< 2.00	ug/L	5/4/2016 21:17
Vinyl chloride	< 2.00	ug/L	5/4/2016 21:17

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Report Prepared Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B106-MW-PS6

Lab Sample ID: 161713-11

Date Sampled: 5/2/2016

Matrix: Groundwater

Date Received: 5/3/2016

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>	
1,2-Dichloroethane-d4	102	81.1 - 122		5/4/2016	21:17
4-Bromofluorobenzene	90.9	78.7 - 116		5/4/2016	21:17
Pentafluorobenzene	101	88.6 - 112		5/4/2016	21:17
Toluene-D8	98.8	88.9 - 110		5/4/2016	21:17

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x32077.D

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Report Prepared Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B108-MW-PS6

Lab Sample ID: 161713-12

Date Sampled: 5/2/2016

Matrix: Groundwater

Date Received: 5/3/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/5/2016 14:27
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/5/2016 14:27
1,1,2-Trichloroethane	< 2.00	ug/L		5/5/2016 14:27
1,1-Dichloroethane	< 2.00	ug/L		5/5/2016 14:27
1,1-Dichloroethene	< 2.00	ug/L		5/5/2016 14:27
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/5/2016 14:27
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/5/2016 14:27
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/5/2016 14:27
1,2-Dibromoethane	< 2.00	ug/L		5/5/2016 14:27
1,2-Dichlorobenzene	< 2.00	ug/L		5/5/2016 14:27
1,2-Dichloroethane	< 2.00	ug/L		5/5/2016 14:27
1,2-Dichloropropane	< 2.00	ug/L		5/5/2016 14:27
1,3-Dichlorobenzene	< 2.00	ug/L		5/5/2016 14:27
1,4-Dichlorobenzene	< 2.00	ug/L		5/5/2016 14:27
1,4-dioxane	< 20.0	ug/L		5/5/2016 14:27
2-Butanone	9.02	ug/L	J	5/5/2016 14:27
2-Hexanone	< 5.00	ug/L		5/5/2016 14:27
4-Methyl-2-pentanone	< 5.00	ug/L		5/5/2016 14:27
Acetone	< 10.0	ug/L		5/5/2016 14:27
Benzene	< 1.00	ug/L		5/5/2016 14:27
Bromochloromethane	< 5.00	ug/L		5/5/2016 14:27
Bromodichloromethane	< 2.00	ug/L		5/5/2016 14:27
Bromoform	< 5.00	ug/L		5/5/2016 14:27
Bromomethane	< 2.00	ug/L		5/5/2016 14:27
Carbon disulfide	< 2.00	ug/L		5/5/2016 14:27
Carbon Tetrachloride	< 2.00	ug/L		5/5/2016 14:27
Chlorobenzene	< 2.00	ug/L		5/5/2016 14:27

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 Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B108-MW-PS6

Lab Sample ID: 161713-12

Date Sampled: 5/2/2016

Matrix: Groundwater

Date Received: 5/3/2016

Chloroethane	< 2.00	ug/L	5/5/2016 14:27
Chloroform	< 2.00	ug/L	5/5/2016 14:27
Chloromethane	< 2.00	ug/L	5/5/2016 14:27
cis-1,2-Dichloroethene	9.96	ug/L	5/5/2016 14:27
cis-1,3-Dichloropropene	< 2.00	ug/L	5/5/2016 14:27
Cyclohexane	< 10.0	ug/L	5/5/2016 14:27
Dibromochloromethane	< 2.00	ug/L	5/5/2016 14:27
Dichlorodifluoromethane	< 2.00	ug/L	5/5/2016 14:27
Ethylbenzene	< 2.00	ug/L	5/5/2016 14:27
Freon 113	< 2.00	ug/L	5/5/2016 14:27
Isopropylbenzene	< 2.00	ug/L	5/5/2016 14:27
m,p-Xylene	< 2.00	ug/L	5/5/2016 14:27
Methyl acetate	< 2.00	ug/L	5/5/2016 14:27
Methyl tert-butyl Ether	< 2.00	ug/L	5/5/2016 14:27
Methylcyclohexane	< 2.00	ug/L	5/5/2016 14:27
Methylene chloride	< 5.00	ug/L	5/5/2016 14:27
o-Xylene	< 2.00	ug/L	5/5/2016 14:27
Styrene	< 5.00	ug/L	5/5/2016 14:27
Tetrachloroethene	4.45	ug/L	5/5/2016 14:27
Toluene	< 2.00	ug/L	5/5/2016 14:27
trans-1,2-Dichloroethene	< 2.00	ug/L	5/5/2016 14:27
trans-1,3-Dichloropropene	< 2.00	ug/L	5/5/2016 14:27
Trichloroethene	4.95	ug/L	5/5/2016 14:27
Trichlorofluoromethane	< 2.00	ug/L	5/5/2016 14:27
Vinyl chloride	3.71	ug/L	5/5/2016 14:27

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Report Prepared Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B108-MW-PS6

Lab Sample ID: 161713-12

Date Sampled: 5/2/2016

Matrix: Groundwater

Date Received: 5/3/2016

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>	
1,2-Dichloroethane-d4	100	81.1 - 122		5/5/2016	14:27
4-Bromofluorobenzene	90.2	78.7 - 116		5/5/2016	14:27
Pentafluorobenzene	101	88.6 - 112		5/5/2016	14:27
Toluene-D8	99.2	88.9 - 110		5/5/2016	14:27

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x32092.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 Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-DUP-PS6

Lab Sample ID: 161713-13

Date Sampled: 5/2/2016

Matrix: Groundwater

Date Received: 5/3/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/5/2016 14:50
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/5/2016 14:50
1,1,2-Trichloroethane	< 2.00	ug/L		5/5/2016 14:50
1,1-Dichloroethane	< 2.00	ug/L		5/5/2016 14:50
1,1-Dichloroethene	< 2.00	ug/L		5/5/2016 14:50
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/5/2016 14:50
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/5/2016 14:50
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/5/2016 14:50
1,2-Dibromoethane	< 2.00	ug/L		5/5/2016 14:50
1,2-Dichlorobenzene	< 2.00	ug/L		5/5/2016 14:50
1,2-Dichloroethane	< 2.00	ug/L		5/5/2016 14:50
1,2-Dichloropropane	< 2.00	ug/L		5/5/2016 14:50
1,3-Dichlorobenzene	< 2.00	ug/L		5/5/2016 14:50
1,4-Dichlorobenzene	< 2.00	ug/L		5/5/2016 14:50
1,4-dioxane	< 20.0	ug/L		5/5/2016 14:50
2-Butanone	< 10.0	ug/L		5/5/2016 14:50
2-Hexanone	< 5.00	ug/L		5/5/2016 14:50
4-Methyl-2-pentanone	< 5.00	ug/L		5/5/2016 14:50
Acetone	< 10.0	ug/L		5/5/2016 14:50
Benzene	< 1.00	ug/L		5/5/2016 14:50
Bromochloromethane	< 5.00	ug/L		5/5/2016 14:50
Bromodichloromethane	< 2.00	ug/L		5/5/2016 14:50
Bromoform	< 5.00	ug/L		5/5/2016 14:50
Bromomethane	< 2.00	ug/L		5/5/2016 14:50
Carbon disulfide	< 2.00	ug/L		5/5/2016 14:50
Carbon Tetrachloride	< 2.00	ug/L		5/5/2016 14:50
Chlorobenzene	< 2.00	ug/L		5/5/2016 14:50

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 Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-DUP-PS6

Lab Sample ID: 161713-13

Date Sampled: 5/2/2016

Matrix: Groundwater

Date Received: 5/3/2016

Chloroethane	< 2.00	ug/L		5/5/2016 14:50
Chloroform	< 2.00	ug/L		5/5/2016 14:50
Chloromethane	< 2.00	ug/L		5/5/2016 14:50
cis-1,2-Dichloroethene	< 2.00	ug/L		5/5/2016 14:50
cis-1,3-Dichloropropene	< 2.00	ug/L		5/5/2016 14:50
Cyclohexane	< 10.0	ug/L		5/5/2016 14:50
Dibromochloromethane	< 2.00	ug/L		5/5/2016 14:50
Dichlorodifluoromethane	< 2.00	ug/L		5/5/2016 14:50
Ethylbenzene	< 2.00	ug/L		5/5/2016 14:50
Freon 113	< 2.00	ug/L		5/5/2016 14:50
Isopropylbenzene	< 2.00	ug/L		5/5/2016 14:50
m,p-Xylene	< 2.00	ug/L		5/5/2016 14:50
Methyl acetate	< 2.00	ug/L		5/5/2016 14:50
Methyl tert-butyl Ether	1.33	ug/L	J	5/5/2016 14:50
Methylcyclohexane	< 2.00	ug/L		5/5/2016 14:50
Methylene chloride	< 5.00	ug/L		5/5/2016 14:50
o-Xylene	< 2.00	ug/L		5/5/2016 14:50
Styrene	< 5.00	ug/L		5/5/2016 14:50
Tetrachloroethene	< 2.00	ug/L		5/5/2016 14:50
Toluene	< 2.00	ug/L		5/5/2016 14:50
trans-1,2-Dichloroethene	1.12	ug/L	J	5/5/2016 14:50
trans-1,3-Dichloropropene	< 2.00	ug/L		5/5/2016 14:50
Trichloroethene	< 2.00	ug/L		5/5/2016 14:50
Trichlorofluoromethane	< 2.00	ug/L		5/5/2016 14:50
Vinyl chloride	< 2.00	ug/L		5/5/2016 14:50

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Report Prepared Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-DUP-PS6

Lab Sample ID: 161713-13

Date Sampled: 5/2/2016

Matrix: Groundwater

Date Received: 5/3/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	99.5	81.1 - 122		5/5/2016	14:50
4-Bromofluorobenzene	88.7	78.7 - 116		5/5/2016	14:50
Pentafluorobenzene	104	88.6 - 112		5/5/2016	14:50
Toluene-D8	97.9	88.9 - 110		5/5/2016	14:50

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x32093.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 Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: Trip Blank (T-698)

Lab Sample ID: 161713-14

Date Sampled: 5/2/2016

Matrix: Water

Date Received: 5/3/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/4/2016 17:22
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/4/2016 17:22
1,1,2-Trichloroethane	< 2.00	ug/L		5/4/2016 17:22
1,1-Dichloroethane	< 2.00	ug/L		5/4/2016 17:22
1,1-Dichloroethene	< 2.00	ug/L		5/4/2016 17:22
1,2,3-Trichlorobenzene	< 5.00	ug/L		5/4/2016 17:22
1,2,4-Trichlorobenzene	< 5.00	ug/L		5/4/2016 17:22
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		5/4/2016 17:22
1,2-Dibromoethane	< 2.00	ug/L		5/4/2016 17:22
1,2-Dichlorobenzene	< 2.00	ug/L		5/4/2016 17:22
1,2-Dichloroethane	< 2.00	ug/L		5/4/2016 17:22
1,2-Dichloropropane	< 2.00	ug/L		5/4/2016 17:22
1,3-Dichlorobenzene	< 2.00	ug/L		5/4/2016 17:22
1,4-Dichlorobenzene	< 2.00	ug/L		5/4/2016 17:22
1,4-dioxane	< 20.0	ug/L		5/4/2016 17:22
2-Butanone	< 10.0	ug/L		5/4/2016 17:22
2-Hexanone	< 5.00	ug/L		5/4/2016 17:22
4-Methyl-2-pentanone	< 5.00	ug/L		5/4/2016 17:22
Acetone	< 10.0	ug/L		5/4/2016 17:22
Benzene	< 1.00	ug/L		5/4/2016 17:22
Bromochloromethane	< 5.00	ug/L		5/4/2016 17:22
Bromodichloromethane	< 2.00	ug/L		5/4/2016 17:22
Bromoform	< 5.00	ug/L		5/4/2016 17:22
Bromomethane	< 2.00	ug/L		5/4/2016 17:22
Carbon disulfide	< 2.00	ug/L		5/4/2016 17:22
Carbon Tetrachloride	< 2.00	ug/L		5/4/2016 17:22
Chlorobenzene	< 2.00	ug/L		5/4/2016 17:22

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 Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: Trip Blank (T-698)

Lab Sample ID: 161713-14

Date Sampled: 5/2/2016

Matrix: Water

Date Received: 5/3/2016

Chloroethane	< 2.00	ug/L	5/4/2016 17:22
Chloroform	< 2.00	ug/L	5/4/2016 17:22
Chloromethane	< 2.00	ug/L	5/4/2016 17:22
cis-1,2-Dichloroethene	< 2.00	ug/L	5/4/2016 17:22
cis-1,3-Dichloropropene	< 2.00	ug/L	5/4/2016 17:22
Cyclohexane	< 10.0	ug/L	5/4/2016 17:22
Dibromochloromethane	< 2.00	ug/L	5/4/2016 17:22
Dichlorodifluoromethane	< 2.00	ug/L	5/4/2016 17:22
Ethylbenzene	< 2.00	ug/L	5/4/2016 17:22
Freon 113	< 2.00	ug/L	5/4/2016 17:22
Isopropylbenzene	< 2.00	ug/L	5/4/2016 17:22
m,p-Xylene	< 2.00	ug/L	5/4/2016 17:22
Methyl acetate	< 2.00	ug/L	5/4/2016 17:22
Methyl tert-butyl Ether	< 2.00	ug/L	5/4/2016 17:22
Methylcyclohexane	< 2.00	ug/L	5/4/2016 17:22
Methylene chloride	< 5.00	ug/L	5/4/2016 17:22
o-Xylene	< 2.00	ug/L	5/4/2016 17:22
Styrene	< 5.00	ug/L	5/4/2016 17:22
Tetrachloroethene	< 2.00	ug/L	5/4/2016 17:22
Toluene	< 2.00	ug/L	5/4/2016 17:22
trans-1,2-Dichloroethene	< 2.00	ug/L	5/4/2016 17:22
trans-1,3-Dichloropropene	< 2.00	ug/L	5/4/2016 17:22
Trichloroethene	< 2.00	ug/L	5/4/2016 17:22
Trichlorofluoromethane	< 2.00	ug/L	5/4/2016 17:22
Vinyl chloride	< 2.00	ug/L	5/4/2016 17:22

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 Wednesday, May 11, 2016



Lab Project ID: 161713

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: Trip Blank (T-698)

Lab Sample ID: 161713-14

Date Sampled: 5/2/2016

Matrix: Water

Date Received: 5/3/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	102	81.1 - 122		5/4/2016	17:22
4-Bromofluorobenzene	99.7	78.7 - 116		5/4/2016	17:22
Pentafluorobenzene	104	88.6 - 112		5/4/2016	17:22
Toluene-D8	102	88.9 - 110		5/4/2016	17:22

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x32067.D

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Report Prepared Wednesday, May 11, 2016



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.

"J" = Result estimated between the quantitation limit and half the quantitation limit.

"L" = Laboratory Control Sample recovery outside accepted QC limits.

"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.

"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*

"(1)" = Indicates data from primary column used for QC calculation.

"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.

"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS

LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term, or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation.

LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility.

LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

CHAIN OF CUSTODY

1 of 2 1 of 3



PARADIGM
INTERNATIONAL

REPORT TO:

INVOICE TO:

CLIENT:

Stantec

CLIENT:

Same

LAB PROJECT ID

ADDRESS:

61 Commercial St.

ADDRESS:

161713

CITY:

Rochester

CITY:

STATE:

ZIP:

Quotation #:

PHONE:

413-5226

PHONE:

978-52248

Email:

PROJECT REFERENCE

Carriage Factory

ATTN:

Mike Stoversky

Mike Stoversky Stantec

Matrix Codes:

AA - Aqueous Liquid
NA - 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	GARB	SAMPLE IDENTIFIER	MAO T R I X	CON T A I N E R S	REMARKS	PARADIGM LAB SAMPLE NUMBER
5/2/16	1425	X	LI-RW-2-PSk	WA	9	X	MS/MSD	01
↓	1020		LI-RW-2-PSk		12			02
↓	1120		LI-RW-3-PSk		4			03
5/3/16	1120		LI-RW-4-PSk					04
↓	1330		LI-RW-5-PSk					05
↓	0920		LI-RW-6-PSk					06
↓	1015		LI-RW-7-PSk					07
5/2/16	1600		LI-RW-9-PSk					08
5/3/16	0830		LI-RW-12-PSk					09
↓	1235		LI-BIO2-WW-PSk					10

Turnaround Time

Report Supplements

Availability contingent upon lab approval; additional fees may apply.

Standard 5 day

☐

None Required

☐

None Required

☐

10 day

☐

Batch QC

☐

Basic EDD

☐

Rush 3 day

☐

Category A

☐

NYSDEC EDD

☒

Rush 2 day

☐

Category B

☒

Rush 1 day

☐

Other

☒

Other

☐

Other EDD

☒

please indicate date needed:

☐

Other

☐

Other EDD

☒

10-day

☐

Other

☐

Other EDD

☒

please indicate date needed:

☐

Other

☐

Other EDD

☒

Received @ Lab By: Ben Haravitch Date/Time: 5/3/16 1330

Sampled By: Ben Haravitch Date/Time: 5/3/16 1540

Relinquished By: Ben Haravitch Date/Time: 5/3/16 1540

Received By: Ben Haravitch Date/Time: 5/3/16 1540

Received By: Ben Haravitch Date/Time: 5/3/16 1610

Received @ Lab By: Ben Haravitch Date/Time: 5/3/16 1610

5°Ciced 5/3/16 15:50. Custody Seal N/A. Samples delivered by 6/5/3/16.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

2 of 2

LAB PROJECT ID

See additional page for sample conditions.

OL - Oil
AR - AirPARADIGM LAB
SAMPLE

please indicate EDD

11

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).



3 of 3

Chain of Custody Supplement

Client: Stantec

Completed by: Glenn Pezzullo

Lab Project ID: 161713

Date: 5/3/16

Sample Condition Requirements

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

NELAC compliance with the sample condition requirements upon receipt			
Condition	Yes	No	N/A
Container Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			
Transferred to method-compliant container	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Headspace (<1 mL)	<input checked="" type="checkbox"/> VoA	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments			
Preservation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			
Chlorine Absent (<0.10 ppm per test strip)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments			
Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			
Temperature	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	<u>5°C:ced 5/3/16 15:50</u>		
Sufficient Sample Quantity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			



ANALYTICAL REPORT

Lab Number:	L1613462
Client:	Paradigm Environmental Services 179 Lake Avenue Rochester, NY 14608
ATTN:	Rebecca Ross
Phone:	(585) 647-2530
Project Name:	161713
Project Number:	161713
Report Date:	05/10/16

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Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 161713

Project Number: 161713

Lab Number: L1613462

Report Date: 05/10/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1613462-01	161713-01 LI-RW-1-PS6	WATER	Not Specified	05/02/16 14:25	05/04/16
L1613462-02	161713-02 LI-RW-2-PS6	WATER	Not Specified	05/02/16 10:20	05/04/16
L1613462-03	161713-03 LI-RW-3-PS6	WATER	Not Specified	05/02/16 11:20	05/04/16
L1613462-04	161713-04 LI-RW-4-PS6	WATER	Not Specified	05/03/16 11:20	05/04/16
L1613462-05	161713-05 LI-RW-5-PS6	WATER	Not Specified	05/03/16 13:30	05/04/16
L1613462-06	161713-06 LI-RW-6-PS6	WATER	Not Specified	05/03/16 09:20	05/04/16
L1613462-07	161713-07 LI-RW-7-PS6	WATER	Not Specified	05/03/16 10:15	05/04/16
L1613462-08	161713-08 LI-RW-9-PS6	WATER	Not Specified	05/02/16 16:00	05/04/16
L1613462-09	161713-09 LI-RW-12-PS6	WATER	Not Specified	05/03/16 08:30	05/04/16
L1613462-10	161713-10 LI-B102-MW-PS6	WATER	Not Specified	05/03/16 12:35	05/04/16
L1613462-11	161713-11 LI-B106-MW-PS6	WATER	Not Specified	05/02/16 13:25	05/04/16
L1613462-12	161713-12 LI-B108-MW-PS6	WATER	Not Specified	05/02/16 12:35	05/04/16
L1613462-13	161713-13 LI-DUP-PS6	WATER	Not Specified	05/02/16 11:25	05/04/16

Project Name: 161713
Project Number: 161713

Lab Number: L1613462
Report Date: 05/10/16

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 161713
Project Number: 161713

Lab Number: L1613462
Report Date: 05/10/16


Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 05/10/16

INORGANICS & MISCELLANEOUS

Project Name: 161713

Project Number: 161713

Lab Number: L1613462

Report Date: 05/10/16

SAMPLE RESULTS

Lab ID: L1613462-01

Client ID: 161713-01 LI-RW-1-PS6

Sample Location: Not Specified

Matrix: Water

Date Collected: 05/02/16 14:25

Date Received: 05/04/16

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	3.51		mg/l	1.00	0.228	2	-	05/06/16 14:22	121,5310C	ML



Project Name: 161713

Project Number: 161713

Lab Number: L1613462

Report Date: 05/10/16

SAMPLE RESULTS

Lab ID: L1613462-02

Client ID: 161713-02 LI-RW-2-PS6

Sample Location: Not Specified

Matrix: Water

Date Collected: 05/02/16 10:20

Date Received: 05/04/16

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	5.52		mg/l	2.50	0.570	5	-	05/06/16 14:22	121,5310C	ML



Project Name: 161713

Project Number: 161713

Lab Number: L1613462

Report Date: 05/10/16

SAMPLE RESULTS

Lab ID: L1613462-03

Client ID: 161713-03 LI-RW-3-PS6

Sample Location: Not Specified

Matrix: Water

Date Collected: 05/02/16 11:20

Date Received: 05/04/16

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	7.08		mg/l	2.50	0.570	5	-	05/06/16 14:22	121,5310C	ML



Project Name: 161713

Project Number: 161713

Lab Number: L1613462

Report Date: 05/10/16

SAMPLE RESULTS

Lab ID: L1613462-04

Client ID: 161713-04 LI-RW-4-PS6

Sample Location: Not Specified

Matrix: Water

Date Collected: 05/03/16 11:20

Date Received: 05/04/16

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	141.		mg/l	25.0	5.70	50	-	05/06/16 14:22	121,5310C	ML



Project Name: 161713**Project Number:** 161713**Lab Number:** L1613462**Report Date:** 05/10/16**SAMPLE RESULTS****Lab ID:** L1613462-05**Client ID:** 161713-05 LI-RW-5-PS6**Sample Location:** Not Specified**Matrix:** Water**Date Collected:** 05/03/16 13:30**Date Received:** 05/04/16**Field Prep:** Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	2.49		mg/l	0.500	0.114	1	-	05/06/16 14:22	121,5310C	ML



Project Name: 161713

Project Number: 161713

Lab Number: L1613462

Report Date: 05/10/16

SAMPLE RESULTS

Lab ID: L1613462-06

Client ID: 161713-06 LI-RW-6-PS6

Sample Location: Not Specified

Matrix: Water

Date Collected: 05/03/16 09:20

Date Received: 05/04/16

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	3.41		mg/l	1.00	0.228	2	-	05/06/16 14:22	121,5310C	ML



Project Name: 161713

Project Number: 161713

Lab Number: L1613462

Report Date: 05/10/16

SAMPLE RESULTS

Lab ID: L1613462-07

Client ID: 161713-07 LI-RW-7-PS6

Sample Location: Not Specified

Matrix: Water

Date Collected: 05/03/16 10:15

Date Received: 05/04/16

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	2.72		mg/l	0.500	0.114	1	-	05/06/16 14:22	121,5310C	ML



Project Name: 161713

Project Number: 161713

Lab Number: L1613462

Report Date: 05/10/16

SAMPLE RESULTS

Lab ID: L1613462-08

Client ID: 161713-08 LI-RW-9-PS6

Sample Location: Not Specified

Matrix: Water

Date Collected: 05/02/16 16:00

Date Received: 05/04/16

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	2.34		mg/l	1.00	0.228	2	-	05/06/16 14:22	121,5310C	ML



Project Name: 161713

Project Number: 161713

Lab Number: L1613462

Report Date: 05/10/16

SAMPLE RESULTS

Lab ID: L1613462-09
Client ID: 161713-09 LI-RW-12-PS6
Sample Location: Not Specified
Matrix: Water

Date Collected: 05/03/16 08:30
Date Received: 05/04/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	2.48		mg/l	1.00	0.228	2	-	05/06/16 14:22	121,5310C	ML



Project Name: 161713

Project Number: 161713

Lab Number: L1613462

Report Date: 05/10/16

SAMPLE RESULTS

Lab ID: L1613462-10
Client ID: 161713-10 LI-B102-MW-PS6
Sample Location: Not Specified
Matrix: Water

Date Collected: 05/03/16 12:35
Date Received: 05/04/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	5.22		mg/l	2.50	0.570	5	-	05/06/16 14:22	121,5310C	ML



Project Name: 161713

Project Number: 161713

Lab Number: L1613462

Report Date: 05/10/16

SAMPLE RESULTS

Lab ID: L1613462-11
Client ID: 161713-11 LI-B106-MW-PS6
Sample Location: Not Specified
Matrix: Water

Date Collected: 05/02/16 13:25
Date Received: 05/04/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	2.63		mg/l	0.500	0.114	1	-	05/06/16 14:22	121,5310C	ML



Project Name: 161713

Project Number: 161713

Lab Number: L1613462

Report Date: 05/10/16

SAMPLE RESULTS

Lab ID: L1613462-12
Client ID: 161713-12 LI-B108-MW-PS6
Sample Location: Not Specified
Matrix: Water

Date Collected: 05/02/16 12:35
Date Received: 05/04/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	68.3		mg/l	5.00	1.14	10	-	05/06/16 14:22	121,5310C	ML



Project Name: 161713

Project Number: 161713

Lab Number: L1613462

Report Date: 05/10/16

SAMPLE RESULTS

Lab ID: L1613462-13

Client ID: 161713-13 LI-DUP-PS6

Sample Location: Not Specified

Matrix: Water

Date Collected: 05/02/16 11:25

Date Received: 05/04/16

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	6.84		mg/l	2.50	0.570	5	-	05/06/16 14:22	121,5310C	ML



Project Name: 161713

Lab Number: L1613462

Project Number: 161713

Report Date: 05/10/16

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-13 Batch: WG891329-1										
Total Organic Carbon	ND		mg/l	0.500	0.114	1	-	05/06/16 14:22	121,5310C	ML



Lab Control Sample Analysis
Batch Quality Control

Project Name: 161713

Project Number: 161713

Lab Number: L1613462

Report Date: 05/10/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13 Batch: WG891329-2								
Total Organic Carbon	102		-		90-110	-		

Matrix Spike Analysis Batch Quality Control

Project Name: 161713

Lab Number: L1613462

Project Number: 161713

Report Date: 05/10/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG891329-4 QC Sample: L1613462-02 Client ID: 161713-02 LI-RW-2-PS6												
Total Organic Carbon	5.52	8	12.5	87		-	-		80-120	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 161713

Project Number: 161713

Lab Number: L1613462

Report Date: 05/10/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG891329-3 QC Sample: L1613462-02 Client ID: 161713-02 LI-RW-2-PS6						
Total Organic Carbon	5.52	4.54	mg/l	19		20

Project Name: 161713

Lab Number: L1613462

Project Number: 161713

Report Date: 05/10/16

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal**Cooler**

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1613462-01A	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1613462-01B	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1613462-02A	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1613462-02B	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1613462-02C	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1613462-02D	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1613462-02E	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1613462-02F	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1613462-03A	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1613462-03B	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1613462-04A	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1613462-04B	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1613462-05A	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1613462-05B	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1613462-06A	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1613462-06B	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1613462-07A	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1613462-07B	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1613462-08A	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1613462-08B	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1613462-09A	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1613462-09B	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1613462-10A	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1613462-10B	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1613462-11A	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1613462-11B	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1613462-12A	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1613462-12B	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1613462-13A	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)

*Values in parentheses indicate holding time in days



Project Name: 161713**Project Number:** 161713**Lab Number:** L1613462**Report Date:** 05/10/16**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1613462-13B	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)

*Values in parentheses indicate holding time in days



Project Name: 161713
Project Number: 161713

Lab Number: L1613462
Report Date: 05/10/16

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

Report Format: DU Report with 'J' Qualifiers



Project Name: 161713**Lab Number:** L1613462**Project Number:** 161713**Report Date:** 05/10/16**Data Qualifiers**

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: 161713
Project Number: 161713

Lab Number: L1613462
Report Date: 05/10/16

REFERENCES

- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.

ID No.:17873

Facility: **Company-wide**

Revision 6

Department: **Quality Assurance**

Published Date: 2/3/2016 10:23:10 AM

Title: **Certificate/Approval Program Summary**

Page 1 of 1

Certification Information**The following analytes are not included in our Primary NELAP Scope of Accreditation:****Westborough Facility****EPA 524.2:** 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, m/p-xylene, o-xylene**EPA 624:** 2-Butanone (MEK), 1,4-Dioxane, tert-Amylmethyl Ether, tert-Butyl Alcohol, m/p-xylene, o-xylene**EPA 625:** Aniline, Benzoic Acid, Benzyl Alcohol, 4-Chloroaniline, 3-Methylphenol, 4-Methylphenol.**EPA 1010A:** NPW: Ignitability**EPA 6010C:** NPW: Strontium; SCM: Strontium**EPA 8151A:** NPW: 2,4-DB, Dicamba, Dichloroprop, MCPA, MCPP; SCM: 2,4-DB, Dichloroprop, MCPA, MCPP**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene, Isopropanol; SCM: Iodomethane (methyl iodide), Methyl methacrylate (soil); 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Pentachloronitrobenzene, 1-Methylnaphthalene, Dimethylnaphthalene, 1,4-Diphenylhydrazine.**EPA 9010:** NPW: Amenable Cyanide Distillation, Total Cyanide Distillation**EPA 9038:** NPW: Sulfate**EPA 9050A:** NPW: Specific Conductance**EPA 9056:** NPW: Chloride, Nitrate, Sulfate**EPA 9065:** NPW: Phenols**EPA 9251:** NPW: Chloride**SM3500:** NPW: Ferrous Iron**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.**SM5310C:** DW: Dissolved Organic Carbon**Mansfield Facility****EPA 8270D:** NPW: Biphenyl; SCM: Biphenyl, Caprolactam**EPA 8270D-SIM Isotope Dilution:** SCM: 1,4-Dioxane**SM 2540D:** TSS**SM2540G:** SCM: Percent Solids**EPA 1631E:** SCM: Mercury**EPA 7474:** SCM: Mercury**EPA 8081B:** NPW and SCM: Mirex, Hexachlorobenzene.**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA 8270-SIM:** NPW and SCM: Alkylated PAHs.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, tert-Butylbenzene.

Biological Tissue Matrix: **8270D-SIM; 3050B; 3051A; 7471B; 8081B; 8082A; 6020A:** Lead; **8270D:** bis(2-ethylhexyl)phthalate, Butylbenzylphthalate, Diethyl phthalate, Dimethyl phthalate, Di-n-butyl phthalate, Di-n-octyl phthalate, Fluoranthene, Pentachlorophenol.**The following analytes are included in our Massachusetts DEP Scope of Accreditation, Westborough Facility:****Drinking Water****EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, Ti; **EPA 200.7:** Ba, Be, Ca, Cd, Cr, Cu, Na; **EPA 245.1:** Mercury;**EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO₃-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1,****SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B****EPA 332:** Perchlorate.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, Enterolert-QT.****Non-Potable Water****EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Ti, Zn;**EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, Ti, Tl, V, Zn;**EPA 245.1, SM4500H-B, EPA 120.1, SM2510B, SM2540C, SM2340B, SM2320B, SM4500CL-E, SM4500F-BC, SM426C, SM4500NH₃-BH, EPA****350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO₃-F,****EPA 353.2:** Nitrate-N, **SM4500NH₃-BC-NES, EPA 351.1, SM4500P-E, SM4500P-B, E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D,****EPA 1664, SM14 510AC, EPA 420.1, SM4500-CN-CE, SM2540D.****EPA 624:** Volatile Halocarbons & Aromatics,**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

**CHAIN OF CUSTODY**

1 of 2

11148

L1616 @ L1613162

REPORT TO:				INVOICE TO:			
COMPANY:	Paradigm Environmental			COMPANY:	Same		
ADDRESS:	179 Lake Avenue			ADDRESS:			
CITY:	Rochester	STATE:	NY	ZIP:	14608		
PHONE:		FAX:		PHONE:			
ATTN:	Kate Hansen			ATTN:	Meridith Dillman		
COMMENTS:	Please email results to khansen@paradigmenv.com and reporting@paradigmenv.com						
LAB PROJECT #:				CLIENT PROJECT #:			
TURNAROUND TIME: (WORKING DAYS)							
STD				OTHER			
<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 5							
Date Due: 5/12/16				for data			

REQUESTED ANALYSIS														REMARKS		PARADIGM LAB SAMPLE NUMBER	
DATE	TIME	C O M P O S I T E	G R A B	SAMPLE LOCATION/FIELD ID	M A T T R I X	C O N T A M I N E N T											
1 5/2/16	14:25		X	161713-01	Ground Water	2	X							Report J Flags. SOG closed.			
2	10:20			-02		6								ASP Cat B Package Due 5/25/16.			
3	11:20			-03		2								SW-846 HT.			
4 5/3/16	11:20			-04													
5	13:30			-05													
6	09:20			-06													
7	10:15			-07													
8 5/2/16	16:00			-08													
9 5/3/16	08:30			-09													
10	12:35			-10													

LAB USE ONLY BELOW THIS LINE

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

Receipt Parameter	NELAC Compliance
Container Type:	Y <input type="checkbox"/> N <input type="checkbox"/>
Comments:	
Preservation:	Y <input type="checkbox"/> N <input type="checkbox"/>
Comments:	
Holding Time:	Y <input type="checkbox"/> N <input type="checkbox"/>
Comments:	
Temperature:	Y <input type="checkbox"/> N <input type="checkbox"/>
Comments:	

Client	
Sampled By	Date/Time
<i>[Signature]</i>	5/4/16 16:00
Relinquished By	Date/Time
<i>[Signature]</i> AAC	5/04/16 17:02
Received By	Date/Time
<i>[Signature]</i> Phillips	5/5/16 00:55
Received By	Date/Time
Received @ Lab By	Date/Time

Total Cost:

P.I.F.



20P2

11148

CHAIN OF CUSTODY

L1613462

REPORT TO:				INVOICE TO:			
COMPANY:	Paradigm Environmental			COMPANY:	Same		
ADDRESS:	179 Lake Avenue			ADDRESS:			
CITY:	Rochester	STATE:	NY	ZIP:	14608		
PHONE:		FAX:		PHONE:			
ATTN:	Kate Hansen			ATTN:	Meridith Dillman		
COMMENTS:	Please email results to khansen@paradigmenv.com and reporting@paradigmenv.com						
PROJECT NAME/SITE NAME:				LAB PROJECT #:			
				CLIENT PROJECT #:			
				TURNAROUND TIME: (WORKING DAYS)			
				1 2 3 5			
				STD OTHER			
				Date Due:			

REQUESTED ANALYSIS														REMARKS	PARADIGM LAB SAMPLE NUMBER
DATE	TIME	C O M P O S I T E	G R A B	SAMPLE LOCATION/FIELD ID	M A T T R I X	C O N T A M I N E R	TOC								
1 5/2/16	13:25		X	161713-11	Ground Water	2	X							LI-B106-MW-PS6	
2	12:35		↓	-12	↓	↓	↓							LI-B108-MW-PS6	
3	11:25		↓	-13	↓	↓	↓							LI-DUP-PS6	
4															
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 <input type="checkbox"/> N <input type="checkbox"/>
Comments:	
Preservation:	Y <input type="checkbox"/> N <input type="checkbox"/>
Comments:	
Holding Time:	Y <input type="checkbox"/> N <input type="checkbox"/>
Comments:	
Temperature:	Y <input type="checkbox"/> N <input type="checkbox"/>
Comments:	

Client

Sampled By

Date/Time

Total Cost:

Relinquished By

Date/Time

Received By

Date/Time

P.I.F.

Received By

Date/Time

Received @ Lab By

Date/Time



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-1-PS9

Lab Sample ID: 163436-01

Matrix: Groundwater

Date Sampled: 8/10/2016

Date Received: 8/10/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/19/2016 18:40
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/19/2016 18:40
1,1,2-Trichloroethane	< 2.00	ug/L		8/19/2016 18:40
1,1-Dichloroethane	< 2.00	ug/L		8/19/2016 18:40
1,1-Dichloroethene	< 2.00	ug/L		8/19/2016 18:40
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/19/2016 18:40
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/19/2016 18:40
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/19/2016 18:40
1,2-Dibromoethane	< 2.00	ug/L		8/19/2016 18:40
1,2-Dichlorobenzene	< 2.00	ug/L		8/19/2016 18:40
1,2-Dichloroethane	< 2.00	ug/L		8/19/2016 18:40
1,2-Dichloropropane	< 2.00	ug/L		8/19/2016 18:40
1,3-Dichlorobenzene	< 2.00	ug/L		8/19/2016 18:40
1,4-Dichlorobenzene	< 2.00	ug/L		8/19/2016 18:40
1,4-dioxane	< 20.0	ug/L		8/19/2016 18:40
2-Butanone	< 10.0	ug/L		8/19/2016 18:40
2-Hexanone	< 5.00	ug/L		8/19/2016 18:40
4-Methyl-2-pentanone	< 5.00	ug/L		8/19/2016 18:40
Acetone	< 10.0	ug/L		8/19/2016 18:40
Benzene	< 1.00	ug/L		8/19/2016 18:40
Bromochloromethane	< 5.00	ug/L		8/19/2016 18:40
Bromodichloromethane	< 2.00	ug/L		8/19/2016 18:40
Bromoform	< 5.00	ug/L		8/19/2016 18:40
Bromomethane	< 2.00	ug/L		8/19/2016 18:40
Carbon disulfide	< 2.00	ug/L		8/19/2016 18:40
Carbon Tetrachloride	< 2.00	ug/L		8/19/2016 18:40
Chlorobenzene	< 2.00	ug/L		8/19/2016 18:40

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Report Prepared Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-1-PS9

Lab Sample ID: 163436-01

Date Sampled: 8/10/2016

Matrix: Groundwater

Date Received: 8/10/2016

Chloroethane	< 2.00	ug/L		8/19/2016 18:40
Chloroform	< 2.00	ug/L		8/19/2016 18:40
Chloromethane	< 2.00	ug/L		8/19/2016 18:40
cis-1,2-Dichloroethene	2.32	ug/L		8/19/2016 18:40
cis-1,3-Dichloropropene	< 2.00	ug/L		8/19/2016 18:40
Cyclohexane	< 10.0	ug/L		8/19/2016 18:40
Dibromochloromethane	< 2.00	ug/L		8/19/2016 18:40
Dichlorodifluoromethane	< 2.00	ug/L		8/19/2016 18:40
Ethylbenzene	< 2.00	ug/L		8/19/2016 18:40
Freon 113	< 2.00	ug/L		8/19/2016 18:40
Isopropylbenzene	< 2.00	ug/L		8/19/2016 18:40
m,p-Xylene	< 2.00	ug/L		8/19/2016 18:40
Methyl acetate	< 2.00	ug/L		8/19/2016 18:40
Methyl tert-butyl Ether	< 2.00	ug/L		8/19/2016 18:40
Methylcyclohexane	< 2.00	ug/L		8/19/2016 18:40
Methylene chloride	< 5.00	ug/L		8/19/2016 18:40
o-Xylene	< 2.00	ug/L		8/19/2016 18:40
Styrene	< 5.00	ug/L		8/19/2016 18:40
Tetrachloroethene	< 2.00	ug/L		8/19/2016 18:40
Toluene	< 2.00	ug/L		8/19/2016 18:40
trans-1,2-Dichloroethene	1.45	ug/L	J	8/19/2016 18:40
trans-1,3-Dichloropropene	< 2.00	ug/L		8/19/2016 18:40
Trichloroethene	< 2.00	ug/L		8/19/2016 18:40
Trichlorofluoromethane	< 2.00	ug/L		8/19/2016 18:40
Vinyl chloride	3.56	ug/L		8/19/2016 18:40

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Report Prepared Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-1-PS9

Lab Sample ID: 163436-01

Date Sampled: 8/10/2016

Matrix: Groundwater

Date Received: 8/10/2016

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>	
1,2-Dichloroethane-d4	108	86 - 116		8/19/2016	18:40
4-Bromofluorobenzene	96.7	82.2 - 113		8/19/2016	18:40
Pentafluorobenzene	101	90.9 - 110		8/19/2016	18:40
Toluene-D8	97.6	90.8 - 109		8/19/2016	18:40

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x34681.D

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Report Prepared Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-2-PS9

Lab Sample ID: 163436-02

Date Sampled: 8/10/2016

Matrix: Groundwater

Date Received: 8/10/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/19/2016 19:03
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/19/2016 19:03
1,1,2-Trichloroethane	< 2.00	ug/L		8/19/2016 19:03
1,1-Dichloroethane	< 2.00	ug/L		8/19/2016 19:03
1,1-Dichloroethene	< 2.00	ug/L		8/19/2016 19:03
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/19/2016 19:03
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/19/2016 19:03
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/19/2016 19:03
1,2-Dibromoethane	< 2.00	ug/L		8/19/2016 19:03
1,2-Dichlorobenzene	< 2.00	ug/L		8/19/2016 19:03
1,2-Dichloroethane	< 2.00	ug/L		8/19/2016 19:03
1,2-Dichloropropane	< 2.00	ug/L		8/19/2016 19:03
1,3-Dichlorobenzene	< 2.00	ug/L		8/19/2016 19:03
1,4-Dichlorobenzene	< 2.00	ug/L		8/19/2016 19:03
1,4-dioxane	< 20.0	ug/L		8/19/2016 19:03
2-Butanone	< 10.0	ug/L		8/19/2016 19:03
2-Hexanone	< 5.00	ug/L		8/19/2016 19:03
4-Methyl-2-pentanone	< 5.00	ug/L		8/19/2016 19:03
Acetone	< 10.0	ug/L		8/19/2016 19:03
Benzene	< 1.00	ug/L		8/19/2016 19:03
Bromochloromethane	< 5.00	ug/L		8/19/2016 19:03
Bromodichloromethane	< 2.00	ug/L		8/19/2016 19:03
Bromoform	< 5.00	ug/L		8/19/2016 19:03
Bromomethane	< 2.00	ug/L		8/19/2016 19:03
Carbon disulfide	< 2.00	ug/L		8/19/2016 19:03
Carbon Tetrachloride	< 2.00	ug/L		8/19/2016 19:03
Chlorobenzene	< 2.00	ug/L		8/19/2016 19:03

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Report Prepared Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-2-PS9

Lab Sample ID: 163436-02

Date Sampled: 8/10/2016

Matrix: Groundwater

Date Received: 8/10/2016

Chloroethane	< 2.00	ug/L	8/19/2016 19:03
Chloroform	< 2.00	ug/L	8/19/2016 19:03
Chloromethane	< 2.00	ug/L	8/19/2016 19:03
cis-1,2-Dichloroethene	4.18	ug/L	8/19/2016 19:03
cis-1,3-Dichloropropene	< 2.00	ug/L	8/19/2016 19:03
Cyclohexane	< 10.0	ug/L	8/19/2016 19:03
Dibromochloromethane	< 2.00	ug/L	8/19/2016 19:03
Dichlorodifluoromethane	< 2.00	ug/L	8/19/2016 19:03
Ethylbenzene	< 2.00	ug/L	8/19/2016 19:03
Freon 113	< 2.00	ug/L	8/19/2016 19:03
Isopropylbenzene	< 2.00	ug/L	8/19/2016 19:03
m,p-Xylene	< 2.00	ug/L	8/19/2016 19:03
Methyl acetate	< 2.00	ug/L	8/19/2016 19:03
Methyl tert-butyl Ether	2.28	ug/L	8/19/2016 19:03
Methylcyclohexane	< 2.00	ug/L	8/19/2016 19:03
Methylene chloride	< 5.00	ug/L	8/19/2016 19:03
o-Xylene	< 2.00	ug/L	8/19/2016 19:03
Styrene	< 5.00	ug/L	8/19/2016 19:03
Tetrachloroethene	< 2.00	ug/L	8/19/2016 19:03
Toluene	< 2.00	ug/L	8/19/2016 19:03
trans-1,2-Dichloroethene	3.40	ug/L	8/19/2016 19:03
trans-1,3-Dichloropropene	< 2.00	ug/L	8/19/2016 19:03
Trichloroethene	< 2.00	ug/L	8/19/2016 19:03
Trichlorofluoromethane	< 2.00	ug/L	8/19/2016 19:03
Vinyl chloride	5.15	ug/L	8/19/2016 19:03

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Report Prepared Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-2-PS9

Lab Sample ID: 163436-02

Date Sampled: 8/10/2016

Matrix: Groundwater

Date Received: 8/10/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	107	86 - 116		8/19/2016	19:03
4-Bromofluorobenzene	97.6	82.2 - 113		8/19/2016	19:03
Pentafluorobenzene	101	90.9 - 110		8/19/2016	19:03
Toluene-D8	99.2	90.8 - 109		8/19/2016	19:03

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x34682.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 Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-3-PS9

Lab Sample ID: 163436-03

Matrix: Groundwater

Date Sampled: 8/10/2016

Date Received: 8/10/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/19/2016 19:27
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/19/2016 19:27
1,1,2-Trichloroethane	< 2.00	ug/L		8/19/2016 19:27
1,1-Dichloroethane	< 2.00	ug/L		8/19/2016 19:27
1,1-Dichloroethene	< 2.00	ug/L		8/19/2016 19:27
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/19/2016 19:27
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/19/2016 19:27
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/19/2016 19:27
1,2-Dibromoethane	< 2.00	ug/L		8/19/2016 19:27
1,2-Dichlorobenzene	< 2.00	ug/L		8/19/2016 19:27
1,2-Dichloroethane	< 2.00	ug/L		8/19/2016 19:27
1,2-Dichloropropane	< 2.00	ug/L		8/19/2016 19:27
1,3-Dichlorobenzene	< 2.00	ug/L		8/19/2016 19:27
1,4-Dichlorobenzene	< 2.00	ug/L		8/19/2016 19:27
1,4-dioxane	< 20.0	ug/L		8/19/2016 19:27
2-Butanone	< 10.0	ug/L		8/19/2016 19:27
2-Hexanone	< 5.00	ug/L		8/19/2016 19:27
4-Methyl-2-pentanone	< 5.00	ug/L		8/19/2016 19:27
Acetone	< 10.0	ug/L		8/19/2016 19:27
Benzene	< 1.00	ug/L		8/19/2016 19:27
Bromochloromethane	< 5.00	ug/L		8/19/2016 19:27
Bromodichloromethane	< 2.00	ug/L		8/19/2016 19:27
Bromoform	< 5.00	ug/L		8/19/2016 19:27
Bromomethane	< 2.00	ug/L		8/19/2016 19:27
Carbon disulfide	< 2.00	ug/L		8/19/2016 19:27
Carbon Tetrachloride	< 2.00	ug/L		8/19/2016 19:27
Chlorobenzene	< 2.00	ug/L		8/19/2016 19:27

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Report Prepared Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-3-PS9

Lab Sample ID: 163436-03

Date Sampled: 8/10/2016

Matrix: Groundwater

Date Received: 8/10/2016

Chloroethane	< 2.00	ug/L	8/19/2016 19:27
Chloroform	< 2.00	ug/L	8/19/2016 19:27
Chloromethane	< 2.00	ug/L	8/19/2016 19:27
cis-1,2-Dichloroethene	3.68	ug/L	8/19/2016 19:27
cis-1,3-Dichloropropene	< 2.00	ug/L	8/19/2016 19:27
Cyclohexane	< 10.0	ug/L	8/19/2016 19:27
Dibromochloromethane	< 2.00	ug/L	8/19/2016 19:27
Dichlorodifluoromethane	< 2.00	ug/L	8/19/2016 19:27
Ethylbenzene	< 2.00	ug/L	8/19/2016 19:27
Freon 113	< 2.00	ug/L	8/19/2016 19:27
Isopropylbenzene	< 2.00	ug/L	8/19/2016 19:27
m,p-Xylene	< 2.00	ug/L	8/19/2016 19:27
Methyl acetate	< 2.00	ug/L	8/19/2016 19:27
Methyl tert-butyl Ether	6.86	ug/L	8/19/2016 19:27
Methylcyclohexane	< 2.00	ug/L	8/19/2016 19:27
Methylene chloride	< 5.00	ug/L	8/19/2016 19:27
o-Xylene	< 2.00	ug/L	8/19/2016 19:27
Styrene	< 5.00	ug/L	8/19/2016 19:27
Tetrachloroethene	< 2.00	ug/L	8/19/2016 19:27
Toluene	< 2.00	ug/L	8/19/2016 19:27
trans-1,2-Dichloroethene	3.81	ug/L	8/19/2016 19:27
trans-1,3-Dichloropropene	< 2.00	ug/L	8/19/2016 19:27
Trichloroethene	< 2.00	ug/L	8/19/2016 19:27
Trichlorofluoromethane	< 2.00	ug/L	8/19/2016 19:27
Vinyl chloride	5.39	ug/L	8/19/2016 19:27

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Report Prepared Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-3-PS9

Lab Sample ID: 163436-03

Date Sampled: 8/10/2016

Matrix: Groundwater

Date Received: 8/10/2016

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>	
1,2-Dichloroethane-d4	105	86 - 116		8/19/2016	19:27
4-Bromofluorobenzene	96.9	82.2 - 113		8/19/2016	19:27
Pentafluorobenzene	102	90.9 - 110		8/19/2016	19:27
Toluene-D8	98.7	90.8 - 109		8/19/2016	19:27

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x34683.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 Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-4-PS9

Lab Sample ID: 163436-04

Date Sampled: 8/9/2016

Matrix: Groundwater

Date Received: 8/10/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/19/2016 19:50
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/19/2016 19:50
1,1,2-Trichloroethane	< 2.00	ug/L		8/19/2016 19:50
1,1-Dichloroethane	< 2.00	ug/L		8/19/2016 19:50
1,1-Dichloroethene	< 2.00	ug/L		8/19/2016 19:50
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/19/2016 19:50
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/19/2016 19:50
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/19/2016 19:50
1,2-Dibromoethane	< 2.00	ug/L		8/19/2016 19:50
1,2-Dichlorobenzene	< 2.00	ug/L		8/19/2016 19:50
1,2-Dichloroethane	< 2.00	ug/L		8/19/2016 19:50
1,2-Dichloropropane	< 2.00	ug/L		8/19/2016 19:50
1,3-Dichlorobenzene	< 2.00	ug/L		8/19/2016 19:50
1,4-Dichlorobenzene	< 2.00	ug/L		8/19/2016 19:50
1,4-dioxane	< 20.0	ug/L		8/19/2016 19:50
2-Butanone	< 10.0	ug/L		8/19/2016 19:50
2-Hexanone	< 5.00	ug/L		8/19/2016 19:50
4-Methyl-2-pentanone	< 5.00	ug/L		8/19/2016 19:50
Acetone	7.45	ug/L	J	8/19/2016 19:50
Benzene	< 1.00	ug/L		8/19/2016 19:50
Bromochloromethane	< 5.00	ug/L		8/19/2016 19:50
Bromodichloromethane	< 2.00	ug/L		8/19/2016 19:50
Bromoform	< 5.00	ug/L		8/19/2016 19:50
Bromomethane	< 2.00	ug/L		8/19/2016 19:50
Carbon disulfide	< 2.00	ug/L		8/19/2016 19:50
Carbon Tetrachloride	< 2.00	ug/L		8/19/2016 19:50
Chlorobenzene	< 2.00	ug/L		8/19/2016 19:50

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Report Prepared Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-4-PS9

Lab Sample ID: 163436-04

Date Sampled: 8/9/2016

Matrix: Groundwater

Date Received: 8/10/2016

Chloroethane	< 2.00	ug/L	8/19/2016 19:50
Chloroform	< 2.00	ug/L	8/19/2016 19:50
Chloromethane	< 2.00	ug/L	8/19/2016 19:50
cis-1,2-Dichloroethene	3.42	ug/L	8/19/2016 19:50
cis-1,3-Dichloropropene	< 2.00	ug/L	8/19/2016 19:50
Cyclohexane	< 10.0	ug/L	8/19/2016 19:50
Dibromochloromethane	< 2.00	ug/L	8/19/2016 19:50
Dichlorodifluoromethane	< 2.00	ug/L	8/19/2016 19:50
Ethylbenzene	< 2.00	ug/L	8/19/2016 19:50
Freon 113	< 2.00	ug/L	8/19/2016 19:50
Isopropylbenzene	< 2.00	ug/L	8/19/2016 19:50
m,p-Xylene	< 2.00	ug/L	8/19/2016 19:50
Methyl acetate	< 2.00	ug/L	8/19/2016 19:50
Methyl tert-butyl Ether	< 2.00	ug/L	8/19/2016 19:50
Methylcyclohexane	< 2.00	ug/L	8/19/2016 19:50
Methylene chloride	< 5.00	ug/L	8/19/2016 19:50
o-Xylene	< 2.00	ug/L	8/19/2016 19:50
Styrene	< 5.00	ug/L	8/19/2016 19:50
Tetrachloroethene	< 2.00	ug/L	8/19/2016 19:50
Toluene	< 2.00	ug/L	8/19/2016 19:50
trans-1,2-Dichloroethene	< 2.00	ug/L	8/19/2016 19:50
trans-1,3-Dichloropropene	< 2.00	ug/L	8/19/2016 19:50
Trichloroethene	< 2.00	ug/L	8/19/2016 19:50
Trichlorofluoromethane	< 2.00	ug/L	8/19/2016 19:50
Vinyl chloride	5.78	ug/L	8/19/2016 19:50

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Report Prepared Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-4-PS9

Lab Sample ID: 163436-04

Date Sampled: 8/9/2016

Matrix: Groundwater

Date Received: 8/10/2016

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>	
1,2-Dichloroethane-d4	111	86 - 116		8/19/2016	19:50
4-Bromofluorobenzene	96.6	82.2 - 113		8/19/2016	19:50
Pentafluorobenzene	101	90.9 - 110		8/19/2016	19:50
Toluene-D8	98.3	90.8 - 109		8/19/2016	19:50

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x34684.D

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Report Prepared Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-5-PS9

Lab Sample ID: 163436-05

Matrix: Groundwater

Date Sampled: 8/10/2016

Date Received: 8/10/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/19/2016 20:14
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/19/2016 20:14
1,1,2-Trichloroethane	< 2.00	ug/L		8/19/2016 20:14
1,1-Dichloroethane	< 2.00	ug/L		8/19/2016 20:14
1,1-Dichloroethene	< 2.00	ug/L		8/19/2016 20:14
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/19/2016 20:14
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/19/2016 20:14
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/19/2016 20:14
1,2-Dibromoethane	< 2.00	ug/L		8/19/2016 20:14
1,2-Dichlorobenzene	< 2.00	ug/L		8/19/2016 20:14
1,2-Dichloroethane	< 2.00	ug/L		8/19/2016 20:14
1,2-Dichloropropane	< 2.00	ug/L		8/19/2016 20:14
1,3-Dichlorobenzene	< 2.00	ug/L		8/19/2016 20:14
1,4-Dichlorobenzene	< 2.00	ug/L		8/19/2016 20:14
1,4-dioxane	< 20.0	ug/L		8/19/2016 20:14
2-Butanone	< 10.0	ug/L		8/19/2016 20:14
2-Hexanone	< 5.00	ug/L		8/19/2016 20:14
4-Methyl-2-pentanone	< 5.00	ug/L		8/19/2016 20:14
Acetone	< 10.0	ug/L		8/19/2016 20:14
Benzene	0.741	ug/L	J	8/19/2016 20:14
Bromochloromethane	< 5.00	ug/L		8/19/2016 20:14
Bromodichloromethane	< 2.00	ug/L		8/19/2016 20:14
Bromoform	< 5.00	ug/L		8/19/2016 20:14
Bromomethane	< 2.00	ug/L		8/19/2016 20:14
Carbon disulfide	< 2.00	ug/L		8/19/2016 20:14
Carbon Tetrachloride	< 2.00	ug/L		8/19/2016 20:14
Chlorobenzene	< 2.00	ug/L		8/19/2016 20:14

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Report Prepared Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-5-PS9

Lab Sample ID: 163436-05

Date Sampled: 8/10/2016

Matrix: Groundwater

Date Received: 8/10/2016

Chloroethane	< 2.00	ug/L	8/19/2016 20:14
Chloroform	< 2.00	ug/L	8/19/2016 20:14
Chloromethane	< 2.00	ug/L	8/19/2016 20:14
cis-1,2-Dichloroethene	50.7	ug/L	8/19/2016 20:14
cis-1,3-Dichloropropene	< 2.00	ug/L	8/19/2016 20:14
Cyclohexane	< 10.0	ug/L	8/19/2016 20:14
Dibromochloromethane	< 2.00	ug/L	8/19/2016 20:14
Dichlorodifluoromethane	< 2.00	ug/L	8/19/2016 20:14
Ethylbenzene	< 2.00	ug/L	8/19/2016 20:14
Freon 113	< 2.00	ug/L	8/19/2016 20:14
Isopropylbenzene	< 2.00	ug/L	8/19/2016 20:14
m,p-Xylene	< 2.00	ug/L	8/19/2016 20:14
Methyl acetate	< 2.00	ug/L	8/19/2016 20:14
Methyl tert-butyl Ether	< 2.00	ug/L	8/19/2016 20:14
Methylcyclohexane	< 2.00	ug/L	8/19/2016 20:14
Methylene chloride	< 5.00	ug/L	8/19/2016 20:14
o-Xylene	< 2.00	ug/L	8/19/2016 20:14
Styrene	< 5.00	ug/L	8/19/2016 20:14
Tetrachloroethene	< 2.00	ug/L	8/19/2016 20:14
Toluene	< 2.00	ug/L	8/19/2016 20:14
trans-1,2-Dichloroethene	2.62	ug/L	8/19/2016 20:14
trans-1,3-Dichloropropene	< 2.00	ug/L	8/19/2016 20:14
Trichloroethene	< 2.00	ug/L	8/19/2016 20:14
Trichlorofluoromethane	< 2.00	ug/L	8/19/2016 20:14
Vinyl chloride	53.4	ug/L	8/19/2016 20:14

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Report Prepared Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-5-PS9

Lab Sample ID: 163436-05

Date Sampled: 8/10/2016

Matrix: Groundwater

Date Received: 8/10/2016

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>	
1,2-Dichloroethane-d4	108	86 - 116		8/19/2016	20:14
4-Bromofluorobenzene	97.5	82.2 - 113		8/19/2016	20:14
Pentafluorobenzene	103	90.9 - 110		8/19/2016	20:14
Toluene-D8	99.5	90.8 - 109		8/19/2016	20:14

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x34685.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 Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-6-PS9

Lab Sample ID: 163436-06

Date Sampled: 8/9/2016

Matrix: Groundwater

Date Received: 8/10/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 20.0	ug/L		8/19/2016 20:37
1,1,2,2-Tetrachloroethane	< 20.0	ug/L		8/19/2016 20:37
1,1,2-Trichloroethane	< 20.0	ug/L		8/19/2016 20:37
1,1-Dichloroethane	< 20.0	ug/L		8/19/2016 20:37
1,1-Dichloroethene	< 20.0	ug/L		8/19/2016 20:37
1,2,3-Trichlorobenzene	< 50.0	ug/L		8/19/2016 20:37
1,2,4-Trichlorobenzene	< 50.0	ug/L		8/19/2016 20:37
1,2-Dibromo-3-Chloropropane	< 100	ug/L		8/19/2016 20:37
1,2-Dibromoethane	< 20.0	ug/L		8/19/2016 20:37
1,2-Dichlorobenzene	< 20.0	ug/L		8/19/2016 20:37
1,2-Dichloroethane	< 20.0	ug/L		8/19/2016 20:37
1,2-Dichloropropane	< 20.0	ug/L		8/19/2016 20:37
1,3-Dichlorobenzene	< 20.0	ug/L		8/19/2016 20:37
1,4-Dichlorobenzene	< 20.0	ug/L		8/19/2016 20:37
1,4-dioxane	< 200	ug/L		8/19/2016 20:37
2-Butanone	< 100	ug/L		8/19/2016 20:37
2-Hexanone	< 50.0	ug/L		8/19/2016 20:37
4-Methyl-2-pentanone	< 50.0	ug/L		8/19/2016 20:37
Acetone	< 100	ug/L		8/19/2016 20:37
Benzene	< 10.0	ug/L		8/19/2016 20:37
Bromochloromethane	< 50.0	ug/L		8/19/2016 20:37
Bromodichloromethane	< 20.0	ug/L		8/19/2016 20:37
Bromoform	< 50.0	ug/L		8/19/2016 20:37
Bromomethane	< 20.0	ug/L		8/19/2016 20:37
Carbon disulfide	< 20.0	ug/L		8/19/2016 20:37
Carbon Tetrachloride	< 20.0	ug/L		8/19/2016 20:37
Chlorobenzene	< 20.0	ug/L		8/19/2016 20:37

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Report Prepared Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-6-PS9

Lab Sample ID: 163436-06

Date Sampled: 8/9/2016

Matrix: Groundwater

Date Received: 8/10/2016

Chloroethane	< 20.0	ug/L	8/19/2016 20:37
Chloroform	< 20.0	ug/L	8/19/2016 20:37
Chloromethane	< 20.0	ug/L	8/19/2016 20:37
cis-1,2-Dichloroethene	344	ug/L	8/19/2016 20:37
cis-1,3-Dichloropropene	< 20.0	ug/L	8/19/2016 20:37
Cyclohexane	< 100	ug/L	8/19/2016 20:37
Dibromochloromethane	< 20.0	ug/L	8/19/2016 20:37
Dichlorodifluoromethane	< 20.0	ug/L	8/19/2016 20:37
Ethylbenzene	< 20.0	ug/L	8/19/2016 20:37
Freon 113	< 20.0	ug/L	8/19/2016 20:37
Isopropylbenzene	< 20.0	ug/L	8/19/2016 20:37
m,p-Xylene	< 20.0	ug/L	8/19/2016 20:37
Methyl acetate	< 20.0	ug/L	8/19/2016 20:37
Methyl tert-butyl Ether	< 20.0	ug/L	8/19/2016 20:37
Methylcyclohexane	< 20.0	ug/L	8/19/2016 20:37
Methylene chloride	< 50.0	ug/L	8/19/2016 20:37
o-Xylene	< 20.0	ug/L	8/19/2016 20:37
Styrene	< 50.0	ug/L	8/19/2016 20:37
Tetrachloroethene	< 20.0	ug/L	8/19/2016 20:37
Toluene	< 20.0	ug/L	8/19/2016 20:37
trans-1,2-Dichloroethene	< 20.0	ug/L	8/19/2016 20:37
trans-1,3-Dichloropropene	< 20.0	ug/L	8/19/2016 20:37
Trichloroethene	< 20.0	ug/L	8/19/2016 20:37
Trichlorofluoromethane	< 20.0	ug/L	8/19/2016 20:37
Vinyl chloride	201	ug/L	8/19/2016 20:37

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Report Prepared Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-6-PS9

Lab Sample ID: 163436-06

Date Sampled: 8/9/2016

Matrix: Groundwater

Date Received: 8/10/2016

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>	
1,2-Dichloroethane-d4	109	86 - 116		8/19/2016	20:37
4-Bromofluorobenzene	95.9	82.2 - 113		8/19/2016	20:37
Pentafluorobenzene	102	90.9 - 110		8/19/2016	20:37
Toluene-D8	99.2	90.8 - 109		8/19/2016	20:37

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x34686.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 Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-7-PS9

Lab Sample ID: 163436-07

Date Sampled: 8/9/2016

Matrix: Groundwater

Date Received: 8/10/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/19/2016 21:01
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/19/2016 21:01
1,1,2-Trichloroethane	< 2.00	ug/L		8/19/2016 21:01
1,1-Dichloroethane	< 2.00	ug/L		8/19/2016 21:01
1,1-Dichloroethene	< 2.00	ug/L		8/19/2016 21:01
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/19/2016 21:01
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/19/2016 21:01
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/19/2016 21:01
1,2-Dibromoethane	< 2.00	ug/L		8/19/2016 21:01
1,2-Dichlorobenzene	< 2.00	ug/L		8/19/2016 21:01
1,2-Dichloroethane	< 2.00	ug/L		8/19/2016 21:01
1,2-Dichloropropane	< 2.00	ug/L		8/19/2016 21:01
1,3-Dichlorobenzene	< 2.00	ug/L		8/19/2016 21:01
1,4-Dichlorobenzene	< 2.00	ug/L		8/19/2016 21:01
1,4-dioxane	< 20.0	ug/L		8/19/2016 21:01
2-Butanone	< 10.0	ug/L		8/19/2016 21:01
2-Hexanone	< 5.00	ug/L		8/19/2016 21:01
4-Methyl-2-pentanone	< 5.00	ug/L		8/19/2016 21:01
Acetone	< 10.0	ug/L		8/19/2016 21:01
Benzene	< 1.00	ug/L		8/19/2016 21:01
Bromochloromethane	< 5.00	ug/L		8/19/2016 21:01
Bromodichloromethane	< 2.00	ug/L		8/19/2016 21:01
Bromoform	< 5.00	ug/L		8/19/2016 21:01
Bromomethane	< 2.00	ug/L		8/19/2016 21:01
Carbon disulfide	< 2.00	ug/L		8/19/2016 21:01
Carbon Tetrachloride	< 2.00	ug/L		8/19/2016 21:01
Chlorobenzene	< 2.00	ug/L		8/19/2016 21:01

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Report Prepared Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-7-PS9

Lab Sample ID: 163436-07

Date Sampled: 8/9/2016

Matrix: Groundwater

Date Received: 8/10/2016

Chloroethane	< 2.00	ug/L	8/19/2016 21:01
Chloroform	< 2.00	ug/L	8/19/2016 21:01
Chloromethane	< 2.00	ug/L	8/19/2016 21:01
cis-1,2-Dichloroethene	< 2.00	ug/L	8/19/2016 21:01
cis-1,3-Dichloropropene	< 2.00	ug/L	8/19/2016 21:01
Cyclohexane	< 10.0	ug/L	8/19/2016 21:01
Dibromochloromethane	< 2.00	ug/L	8/19/2016 21:01
Dichlorodifluoromethane	< 2.00	ug/L	8/19/2016 21:01
Ethylbenzene	< 2.00	ug/L	8/19/2016 21:01
Freon 113	< 2.00	ug/L	8/19/2016 21:01
Isopropylbenzene	< 2.00	ug/L	8/19/2016 21:01
m,p-Xylene	< 2.00	ug/L	8/19/2016 21:01
Methyl acetate	< 2.00	ug/L	8/19/2016 21:01
Methyl tert-butyl Ether	2.38	ug/L	8/19/2016 21:01
Methylcyclohexane	< 2.00	ug/L	8/19/2016 21:01
Methylene chloride	< 5.00	ug/L	8/19/2016 21:01
o-Xylene	< 2.00	ug/L	8/19/2016 21:01
Styrene	< 5.00	ug/L	8/19/2016 21:01
Tetrachloroethene	< 2.00	ug/L	8/19/2016 21:01
Toluene	< 2.00	ug/L	8/19/2016 21:01
trans-1,2-Dichloroethene	< 2.00	ug/L	8/19/2016 21:01
trans-1,3-Dichloropropene	< 2.00	ug/L	8/19/2016 21:01
Trichloroethene	< 2.00	ug/L	8/19/2016 21:01
Trichlorofluoromethane	< 2.00	ug/L	8/19/2016 21:01
Vinyl chloride	< 2.00	ug/L	8/19/2016 21:01

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Report Prepared Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-7-PS9

Lab Sample ID: 163436-07

Date Sampled: 8/9/2016

Matrix: Groundwater

Date Received: 8/10/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	109	86 - 116		8/19/2016	21:01
4-Bromofluorobenzene	94.9	82.2 - 113		8/19/2016	21:01
Pentafluorobenzene	101	90.9 - 110		8/19/2016	21:01
Toluene-D8	97.9	90.8 - 109		8/19/2016	21:01

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x34687.D

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Report Prepared Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-9-PS9

Lab Sample ID: 163436-08

Matrix: Groundwater

Date Sampled: 8/9/2016

Date Received: 8/10/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/19/2016 21:24
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/19/2016 21:24
1,1,2-Trichloroethane	< 2.00	ug/L		8/19/2016 21:24
1,1-Dichloroethane	< 2.00	ug/L		8/19/2016 21:24
1,1-Dichloroethene	< 2.00	ug/L		8/19/2016 21:24
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/19/2016 21:24
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/19/2016 21:24
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/19/2016 21:24
1,2-Dibromoethane	< 2.00	ug/L		8/19/2016 21:24
1,2-Dichlorobenzene	< 2.00	ug/L		8/19/2016 21:24
1,2-Dichloroethane	< 2.00	ug/L		8/19/2016 21:24
1,2-Dichloropropane	< 2.00	ug/L		8/19/2016 21:24
1,3-Dichlorobenzene	< 2.00	ug/L		8/19/2016 21:24
1,4-Dichlorobenzene	< 2.00	ug/L		8/19/2016 21:24
1,4-dioxane	< 20.0	ug/L		8/19/2016 21:24
2-Butanone	< 10.0	ug/L		8/19/2016 21:24
2-Hexanone	< 5.00	ug/L		8/19/2016 21:24
4-Methyl-2-pentanone	< 5.00	ug/L		8/19/2016 21:24
Acetone	< 10.0	ug/L		8/19/2016 21:24
Benzene	< 1.00	ug/L		8/19/2016 21:24
Bromochloromethane	< 5.00	ug/L		8/19/2016 21:24
Bromodichloromethane	< 2.00	ug/L		8/19/2016 21:24
Bromoform	< 5.00	ug/L		8/19/2016 21:24
Bromomethane	< 2.00	ug/L		8/19/2016 21:24
Carbon disulfide	< 2.00	ug/L		8/19/2016 21:24
Carbon Tetrachloride	< 2.00	ug/L		8/19/2016 21:24
Chlorobenzene	< 2.00	ug/L		8/19/2016 21:24

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Report Prepared Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-9-PS9

Lab Sample ID: 163436-08

Date Sampled: 8/9/2016

Matrix: Groundwater

Date Received: 8/10/2016

Chloroethane	< 2.00	ug/L	8/19/2016 21:24
Chloroform	< 2.00	ug/L	8/19/2016 21:24
Chloromethane	< 2.00	ug/L	8/19/2016 21:24
cis-1,2-Dichloroethene	< 2.00	ug/L	8/19/2016 21:24
cis-1,3-Dichloropropene	< 2.00	ug/L	8/19/2016 21:24
Cyclohexane	< 10.0	ug/L	8/19/2016 21:24
Dibromochloromethane	< 2.00	ug/L	8/19/2016 21:24
Dichlorodifluoromethane	< 2.00	ug/L	8/19/2016 21:24
Ethylbenzene	< 2.00	ug/L	8/19/2016 21:24
Freon 113	< 2.00	ug/L	8/19/2016 21:24
Isopropylbenzene	< 2.00	ug/L	8/19/2016 21:24
m,p-Xylene	< 2.00	ug/L	8/19/2016 21:24
Methyl acetate	< 2.00	ug/L	8/19/2016 21:24
Methyl tert-butyl Ether	< 2.00	ug/L	8/19/2016 21:24
Methylcyclohexane	< 2.00	ug/L	8/19/2016 21:24
Methylene chloride	< 5.00	ug/L	8/19/2016 21:24
o-Xylene	< 2.00	ug/L	8/19/2016 21:24
Styrene	< 5.00	ug/L	8/19/2016 21:24
Tetrachloroethene	5.52	ug/L	8/19/2016 21:24
Toluene	< 2.00	ug/L	8/19/2016 21:24
trans-1,2-Dichloroethene	< 2.00	ug/L	8/19/2016 21:24
trans-1,3-Dichloropropene	< 2.00	ug/L	8/19/2016 21:24
Trichloroethene	< 2.00	ug/L	8/19/2016 21:24
Trichlorofluoromethane	< 2.00	ug/L	8/19/2016 21:24
Vinyl chloride	< 2.00	ug/L	8/19/2016 21:24

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Report Prepared Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-9-PS9

Lab Sample ID: 163436-08

Date Sampled: 8/9/2016

Matrix: Groundwater

Date Received: 8/10/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	112	86 - 116		8/19/2016	21:24
4-Bromofluorobenzene	96.6	82.2 - 113		8/19/2016	21:24
Pentafluorobenzene	100	90.9 - 110		8/19/2016	21:24
Toluene-D8	96.7	90.8 - 109		8/19/2016	21:24

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x34688.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 Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-12-PS9

Lab Sample ID: 163436-09

Date Sampled: 8/9/2016

Matrix: Groundwater

Date Received: 8/10/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/19/2016 21:48
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/19/2016 21:48
1,1,2-Trichloroethane	< 2.00	ug/L		8/19/2016 21:48
1,1-Dichloroethane	< 2.00	ug/L		8/19/2016 21:48
1,1-Dichloroethene	< 2.00	ug/L		8/19/2016 21:48
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/19/2016 21:48
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/19/2016 21:48
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/19/2016 21:48
1,2-Dibromoethane	< 2.00	ug/L		8/19/2016 21:48
1,2-Dichlorobenzene	< 2.00	ug/L		8/19/2016 21:48
1,2-Dichloroethane	< 2.00	ug/L		8/19/2016 21:48
1,2-Dichloropropane	< 2.00	ug/L		8/19/2016 21:48
1,3-Dichlorobenzene	< 2.00	ug/L		8/19/2016 21:48
1,4-Dichlorobenzene	< 2.00	ug/L		8/19/2016 21:48
1,4-dioxane	< 20.0	ug/L		8/19/2016 21:48
2-Butanone	< 10.0	ug/L		8/19/2016 21:48
2-Hexanone	< 5.00	ug/L		8/19/2016 21:48
4-Methyl-2-pentanone	< 5.00	ug/L		8/19/2016 21:48
Acetone	< 10.0	ug/L		8/19/2016 21:48
Benzene	< 1.00	ug/L		8/19/2016 21:48
Bromochloromethane	< 5.00	ug/L		8/19/2016 21:48
Bromodichloromethane	< 2.00	ug/L		8/19/2016 21:48
Bromoform	< 5.00	ug/L		8/19/2016 21:48
Bromomethane	< 2.00	ug/L		8/19/2016 21:48
Carbon disulfide	< 2.00	ug/L		8/19/2016 21:48
Carbon Tetrachloride	< 2.00	ug/L		8/19/2016 21:48
Chlorobenzene	< 2.00	ug/L		8/19/2016 21:48

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Report Prepared Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-12-PS9

Lab Sample ID: 163436-09

Date Sampled: 8/9/2016

Matrix: Groundwater

Date Received: 8/10/2016

Chloroethane	< 2.00	ug/L		8/19/2016 21:48
Chloroform	< 2.00	ug/L		8/19/2016 21:48
Chloromethane	< 2.00	ug/L		8/19/2016 21:48
cis-1,2-Dichloroethene	1.59	ug/L	J	8/19/2016 21:48
cis-1,3-Dichloropropene	< 2.00	ug/L		8/19/2016 21:48
Cyclohexane	< 10.0	ug/L		8/19/2016 21:48
Dibromochloromethane	< 2.00	ug/L		8/19/2016 21:48
Dichlorodifluoromethane	< 2.00	ug/L		8/19/2016 21:48
Ethylbenzene	< 2.00	ug/L		8/19/2016 21:48
Freon 113	< 2.00	ug/L		8/19/2016 21:48
Isopropylbenzene	< 2.00	ug/L		8/19/2016 21:48
m,p-Xylene	< 2.00	ug/L		8/19/2016 21:48
Methyl acetate	< 2.00	ug/L		8/19/2016 21:48
Methyl tert-butyl Ether	< 2.00	ug/L		8/19/2016 21:48
Methylcyclohexane	< 2.00	ug/L		8/19/2016 21:48
Methylene chloride	< 5.00	ug/L		8/19/2016 21:48
o-Xylene	< 2.00	ug/L		8/19/2016 21:48
Styrene	< 5.00	ug/L		8/19/2016 21:48
Tetrachloroethene	2.76	ug/L		8/19/2016 21:48
Toluene	< 2.00	ug/L		8/19/2016 21:48
trans-1,2-Dichloroethene	< 2.00	ug/L		8/19/2016 21:48
trans-1,3-Dichloropropene	< 2.00	ug/L		8/19/2016 21:48
Trichloroethene	3.44	ug/L		8/19/2016 21:48
Trichlorofluoromethane	< 2.00	ug/L		8/19/2016 21:48
Vinyl chloride	< 2.00	ug/L		8/19/2016 21:48

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Report Prepared Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-12-PS9

Lab Sample ID: 163436-09

Date Sampled: 8/9/2016

Matrix: Groundwater

Date Received: 8/10/2016

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>	
1,2-Dichloroethane-d4	107	86 - 116		8/19/2016	21:48
4-Bromofluorobenzene	95.8	82.2 - 113		8/19/2016	21:48
Pentafluorobenzene	98.9	90.9 - 110		8/19/2016	21:48
Toluene-D8	97.8	90.8 - 109		8/19/2016	21:48

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x34689.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 Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B102-MW-PS9

Lab Sample ID: 163436-10

Date Sampled: 8/9/2016

Matrix: Groundwater

Date Received: 8/10/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/19/2016 22:11
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/19/2016 22:11
1,1,2-Trichloroethane	< 2.00	ug/L		8/19/2016 22:11
1,1-Dichloroethane	< 2.00	ug/L		8/19/2016 22:11
1,1-Dichloroethene	< 2.00	ug/L		8/19/2016 22:11
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/19/2016 22:11
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/19/2016 22:11
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/19/2016 22:11
1,2-Dibromoethane	< 2.00	ug/L		8/19/2016 22:11
1,2-Dichlorobenzene	< 2.00	ug/L		8/19/2016 22:11
1,2-Dichloroethane	< 2.00	ug/L		8/19/2016 22:11
1,2-Dichloropropane	< 2.00	ug/L		8/19/2016 22:11
1,3-Dichlorobenzene	< 2.00	ug/L		8/19/2016 22:11
1,4-Dichlorobenzene	< 2.00	ug/L		8/19/2016 22:11
1,4-dioxane	< 20.0	ug/L		8/19/2016 22:11
2-Butanone	< 10.0	ug/L		8/19/2016 22:11
2-Hexanone	< 5.00	ug/L		8/19/2016 22:11
4-Methyl-2-pentanone	< 5.00	ug/L		8/19/2016 22:11
Acetone	< 10.0	ug/L		8/19/2016 22:11
Benzene	< 1.00	ug/L		8/19/2016 22:11
Bromochloromethane	< 5.00	ug/L		8/19/2016 22:11
Bromodichloromethane	< 2.00	ug/L		8/19/2016 22:11
Bromoform	< 5.00	ug/L		8/19/2016 22:11
Bromomethane	< 2.00	ug/L		8/19/2016 22:11
Carbon disulfide	< 2.00	ug/L		8/19/2016 22:11
Carbon Tetrachloride	< 2.00	ug/L		8/19/2016 22:11
Chlorobenzene	< 2.00	ug/L		8/19/2016 22:11

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Report Prepared Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B102-MW-PS9

Lab Sample ID: 163436-10

Date Sampled: 8/9/2016

Matrix: Groundwater

Date Received: 8/10/2016

Chloroethane	< 2.00	ug/L		8/19/2016 22:11
Chloroform	< 2.00	ug/L		8/19/2016 22:11
Chloromethane	< 2.00	ug/L		8/19/2016 22:11
cis-1,2-Dichloroethene	1.01	ug/L	J	8/19/2016 22:11
cis-1,3-Dichloropropene	< 2.00	ug/L		8/19/2016 22:11
Cyclohexane	< 10.0	ug/L		8/19/2016 22:11
Dibromochloromethane	< 2.00	ug/L		8/19/2016 22:11
Dichlorodifluoromethane	< 2.00	ug/L		8/19/2016 22:11
Ethylbenzene	< 2.00	ug/L		8/19/2016 22:11
Freon 113	< 2.00	ug/L		8/19/2016 22:11
Isopropylbenzene	< 2.00	ug/L		8/19/2016 22:11
m,p-Xylene	< 2.00	ug/L		8/19/2016 22:11
Methyl acetate	< 2.00	ug/L		8/19/2016 22:11
Methyl tert-butyl Ether	< 2.00	ug/L		8/19/2016 22:11
Methylcyclohexane	< 2.00	ug/L		8/19/2016 22:11
Methylene chloride	< 5.00	ug/L		8/19/2016 22:11
o-Xylene	< 2.00	ug/L		8/19/2016 22:11
Styrene	< 5.00	ug/L		8/19/2016 22:11
Tetrachloroethene	< 2.00	ug/L		8/19/2016 22:11
Toluene	< 2.00	ug/L		8/19/2016 22:11
trans-1,2-Dichloroethene	< 2.00	ug/L		8/19/2016 22:11
trans-1,3-Dichloropropene	< 2.00	ug/L		8/19/2016 22:11
Trichloroethene	< 2.00	ug/L		8/19/2016 22:11
Trichlorofluoromethane	< 2.00	ug/L		8/19/2016 22:11
Vinyl chloride	1.94	ug/L	J	8/19/2016 22:11

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Report Prepared Wednesday, August 24, 2016



Lab Project ID: 163436

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-B102-MW-PS9

Lab Sample ID: 163436-10

Date Sampled: 8/9/2016

Matrix: Groundwater

Date Received: 8/10/2016

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>	
1,2-Dichloroethane-d4	111	86 - 116		8/19/2016	22:11
4-Bromofluorobenzene	95.5	82.2 - 113		8/19/2016	22:11
Pentafluorobenzene	100	90.9 - 110		8/19/2016	22:11
Toluene-D8	97.5	90.8 - 109		8/19/2016	22:11

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x34690.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 Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B106-MW-PS9

Lab Sample ID: 163436-11

Date Sampled: 8/10/2016

Matrix: Groundwater

Date Received: 8/10/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/22/2016 15:52
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/22/2016 15:52
1,1,2-Trichloroethane	< 2.00	ug/L		8/22/2016 15:52
1,1-Dichloroethane	< 2.00	ug/L		8/22/2016 15:52
1,1-Dichloroethene	< 2.00	ug/L		8/22/2016 15:52
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/22/2016 15:52
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/22/2016 15:52
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/22/2016 15:52
1,2-Dibromoethane	< 2.00	ug/L		8/22/2016 15:52
1,2-Dichlorobenzene	< 2.00	ug/L		8/22/2016 15:52
1,2-Dichloroethane	< 2.00	ug/L		8/22/2016 15:52
1,2-Dichloropropane	< 2.00	ug/L		8/22/2016 15:52
1,3-Dichlorobenzene	< 2.00	ug/L		8/22/2016 15:52
1,4-Dichlorobenzene	< 2.00	ug/L		8/22/2016 15:52
1,4-dioxane	< 20.0	ug/L		8/22/2016 15:52
2-Butanone	< 10.0	ug/L		8/22/2016 15:52
2-Hexanone	< 5.00	ug/L		8/22/2016 15:52
4-Methyl-2-pentanone	< 5.00	ug/L		8/22/2016 15:52
Acetone	< 10.0	ug/L		8/22/2016 15:52
Benzene	< 1.00	ug/L		8/22/2016 15:52
Bromochloromethane	< 5.00	ug/L		8/22/2016 15:52
Bromodichloromethane	< 2.00	ug/L		8/22/2016 15:52
Bromoform	< 5.00	ug/L		8/22/2016 15:52
Bromomethane	< 2.00	ug/L		8/22/2016 15:52
Carbon disulfide	< 2.00	ug/L		8/22/2016 15:52
Carbon Tetrachloride	< 2.00	ug/L		8/22/2016 15:52
Chlorobenzene	< 2.00	ug/L		8/22/2016 15:52

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Report Prepared Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B106-MW-PS9

Lab Sample ID: 163436-11

Date Sampled: 8/10/2016

Matrix: Groundwater

Date Received: 8/10/2016

Chloroethane	< 2.00	ug/L		8/22/2016 15:52
Chloroform	< 2.00	ug/L		8/22/2016 15:52
Chloromethane	< 2.00	ug/L		8/22/2016 15:52
cis-1,2-Dichloroethene	12.0	ug/L		8/22/2016 15:52
cis-1,3-Dichloropropene	< 2.00	ug/L		8/22/2016 15:52
Cyclohexane	< 10.0	ug/L		8/22/2016 15:52
Dibromochloromethane	< 2.00	ug/L		8/22/2016 15:52
Dichlorodifluoromethane	< 2.00	ug/L		8/22/2016 15:52
Ethylbenzene	< 2.00	ug/L		8/22/2016 15:52
Freon 113	< 2.00	ug/L		8/22/2016 15:52
Isopropylbenzene	< 2.00	ug/L		8/22/2016 15:52
m,p-Xylene	< 2.00	ug/L		8/22/2016 15:52
Methyl acetate	< 2.00	ug/L		8/22/2016 15:52
Methyl tert-butyl Ether	< 2.00	ug/L		8/22/2016 15:52
Methylcyclohexane	1.07	ug/L	J	8/22/2016 15:52
Methylene chloride	< 5.00	ug/L		8/22/2016 15:52
o-Xylene	< 2.00	ug/L		8/22/2016 15:52
Styrene	< 5.00	ug/L		8/22/2016 15:52
Tetrachloroethene	< 2.00	ug/L		8/22/2016 15:52
Toluene	< 2.00	ug/L		8/22/2016 15:52
trans-1,2-Dichloroethene	2.54	ug/L		8/22/2016 15:52
trans-1,3-Dichloropropene	< 2.00	ug/L		8/22/2016 15:52
Trichloroethene	1.28	ug/L	J	8/22/2016 15:52
Trichlorofluoromethane	< 2.00	ug/L		8/22/2016 15:52
Vinyl chloride	6.11	ug/L		8/22/2016 15:52

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 Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B106-MW-PS9

Lab Sample ID: 163436-11

Date Sampled: 8/10/2016

Matrix: Groundwater

Date Received: 8/10/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	105	86 - 116		8/22/2016	15:52
4-Bromofluorobenzene	96.6	82.2 - 113		8/22/2016	15:52
Pentafluorobenzene	101	90.9 - 110		8/22/2016	15:52
Toluene-D8	100	90.8 - 109		8/22/2016	15:52

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x34705.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 Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B108-MW-PS9

Lab Sample ID: 163436-12

Date Sampled: 8/10/2016

Matrix: Groundwater

Date Received: 8/10/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/22/2016 15:28
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/22/2016 15:28
1,1,2-Trichloroethane	< 2.00	ug/L		8/22/2016 15:28
1,1-Dichloroethane	< 2.00	ug/L		8/22/2016 15:28
1,1-Dichloroethene	< 2.00	ug/L		8/22/2016 15:28
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/22/2016 15:28
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/22/2016 15:28
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/22/2016 15:28
1,2-Dibromoethane	< 2.00	ug/L		8/22/2016 15:28
1,2-Dichlorobenzene	< 2.00	ug/L		8/22/2016 15:28
1,2-Dichloroethane	< 2.00	ug/L		8/22/2016 15:28
1,2-Dichloropropane	< 2.00	ug/L		8/22/2016 15:28
1,3-Dichlorobenzene	< 2.00	ug/L		8/22/2016 15:28
1,4-Dichlorobenzene	< 2.00	ug/L		8/22/2016 15:28
1,4-dioxane	< 20.0	ug/L		8/22/2016 15:28
2-Butanone	< 10.0	ug/L		8/22/2016 15:28
2-Hexanone	< 5.00	ug/L		8/22/2016 15:28
4-Methyl-2-pentanone	< 5.00	ug/L		8/22/2016 15:28
Acetone	< 10.0	ug/L		8/22/2016 15:28
Benzene	< 1.00	ug/L		8/22/2016 15:28
Bromochloromethane	< 5.00	ug/L		8/22/2016 15:28
Bromodichloromethane	< 2.00	ug/L		8/22/2016 15:28
Bromoform	< 5.00	ug/L		8/22/2016 15:28
Bromomethane	< 2.00	ug/L		8/22/2016 15:28
Carbon disulfide	< 2.00	ug/L		8/22/2016 15:28
Carbon Tetrachloride	< 2.00	ug/L		8/22/2016 15:28
Chlorobenzene	< 2.00	ug/L		8/22/2016 15:28

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Report Prepared Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B108-MW-PS9

Lab Sample ID: 163436-12

Date Sampled: 8/10/2016

Matrix: Groundwater

Date Received: 8/10/2016

Chloroethane	< 2.00	ug/L		8/22/2016 15:28
Chloroform	< 2.00	ug/L		8/22/2016 15:28
Chloromethane	< 2.00	ug/L		8/22/2016 15:28
cis-1,2-Dichloroethene	6.08	ug/L		8/22/2016 15:28
cis-1,3-Dichloropropene	< 2.00	ug/L		8/22/2016 15:28
Cyclohexane	< 10.0	ug/L		8/22/2016 15:28
Dibromochloromethane	< 2.00	ug/L		8/22/2016 15:28
Dichlorodifluoromethane	< 2.00	ug/L		8/22/2016 15:28
Ethylbenzene	< 2.00	ug/L		8/22/2016 15:28
Freon 113	< 2.00	ug/L		8/22/2016 15:28
Isopropylbenzene	< 2.00	ug/L		8/22/2016 15:28
m,p-Xylene	< 2.00	ug/L		8/22/2016 15:28
Methyl acetate	< 2.00	ug/L		8/22/2016 15:28
Methyl tert-butyl Ether	< 2.00	ug/L		8/22/2016 15:28
Methylcyclohexane	< 2.00	ug/L		8/22/2016 15:28
Methylene chloride	< 5.00	ug/L		8/22/2016 15:28
o-Xylene	< 2.00	ug/L		8/22/2016 15:28
Styrene	< 5.00	ug/L		8/22/2016 15:28
Tetrachloroethene	< 2.00	ug/L		8/22/2016 15:28
Toluene	< 2.00	ug/L		8/22/2016 15:28
trans-1,2-Dichloroethene	1.10	ug/L	J	8/22/2016 15:28
trans-1,3-Dichloropropene	< 2.00	ug/L		8/22/2016 15:28
Trichloroethene	< 2.00	ug/L		8/22/2016 15:28
Trichlorofluoromethane	< 2.00	ug/L		8/22/2016 15:28
Vinyl chloride	11.1	ug/L		8/22/2016 15:28

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 Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B108-MW-PS9

Lab Sample ID: 163436-12

Date Sampled: 8/10/2016

Matrix: Groundwater

Date Received: 8/10/2016

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>	
1,2-Dichloroethane-d4	104	86 - 116		8/22/2016	15:28
4-Bromofluorobenzene	96.1	82.2 - 113		8/22/2016	15:28
Pentafluorobenzene	101	90.9 - 110		8/22/2016	15:28
Toluene-D8	99.7	90.8 - 109		8/22/2016	15:28

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x34704.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 Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-DUP-PS9

Lab Sample ID: 163436-13

Matrix: Groundwater

Date Sampled: 8/9/2016

Date Received: 8/10/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/22/2016 15:05
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/22/2016 15:05
1,1,2-Trichloroethane	< 2.00	ug/L		8/22/2016 15:05
1,1-Dichloroethane	< 2.00	ug/L		8/22/2016 15:05
1,1-Dichloroethene	< 2.00	ug/L		8/22/2016 15:05
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/22/2016 15:05
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/22/2016 15:05
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/22/2016 15:05
1,2-Dibromoethane	< 2.00	ug/L		8/22/2016 15:05
1,2-Dichlorobenzene	< 2.00	ug/L		8/22/2016 15:05
1,2-Dichloroethane	< 2.00	ug/L		8/22/2016 15:05
1,2-Dichloropropane	< 2.00	ug/L		8/22/2016 15:05
1,3-Dichlorobenzene	< 2.00	ug/L		8/22/2016 15:05
1,4-Dichlorobenzene	< 2.00	ug/L		8/22/2016 15:05
1,4-dioxane	< 20.0	ug/L		8/22/2016 15:05
2-Butanone	< 10.0	ug/L		8/22/2016 15:05
2-Hexanone	< 5.00	ug/L		8/22/2016 15:05
4-Methyl-2-pentanone	< 5.00	ug/L		8/22/2016 15:05
Acetone	< 10.0	ug/L		8/22/2016 15:05
Benzene	< 1.00	ug/L		8/22/2016 15:05
Bromochloromethane	< 5.00	ug/L		8/22/2016 15:05
Bromodichloromethane	< 2.00	ug/L		8/22/2016 15:05
Bromoform	< 5.00	ug/L		8/22/2016 15:05
Bromomethane	< 2.00	ug/L		8/22/2016 15:05
Carbon disulfide	< 2.00	ug/L		8/22/2016 15:05
Carbon Tetrachloride	< 2.00	ug/L		8/22/2016 15:05
Chlorobenzene	< 2.00	ug/L		8/22/2016 15:05

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 Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-DUP-PS9

Lab Sample ID: 163436-13

Date Sampled: 8/9/2016

Matrix: Groundwater

Date Received: 8/10/2016

Chloroethane	< 2.00	ug/L	8/22/2016 15:05
Chloroform	< 2.00	ug/L	8/22/2016 15:05
Chloromethane	< 2.00	ug/L	8/22/2016 15:05
cis-1,2-Dichloroethene	< 2.00	ug/L	8/22/2016 15:05
cis-1,3-Dichloropropene	< 2.00	ug/L	8/22/2016 15:05
Cyclohexane	< 10.0	ug/L	8/22/2016 15:05
Dibromochloromethane	< 2.00	ug/L	8/22/2016 15:05
Dichlorodifluoromethane	< 2.00	ug/L	8/22/2016 15:05
Ethylbenzene	< 2.00	ug/L	8/22/2016 15:05
Freon 113	< 2.00	ug/L	8/22/2016 15:05
Isopropylbenzene	< 2.00	ug/L	8/22/2016 15:05
m,p-Xylene	< 2.00	ug/L	8/22/2016 15:05
Methyl acetate	< 2.00	ug/L	8/22/2016 15:05
Methyl tert-butyl Ether	< 2.00	ug/L	8/22/2016 15:05
Methylcyclohexane	< 2.00	ug/L	8/22/2016 15:05
Methylene chloride	< 5.00	ug/L	8/22/2016 15:05
o-Xylene	< 2.00	ug/L	8/22/2016 15:05
Styrene	< 5.00	ug/L	8/22/2016 15:05
Tetrachloroethene	5.28	ug/L	8/22/2016 15:05
Toluene	< 2.00	ug/L	8/22/2016 15:05
trans-1,2-Dichloroethene	< 2.00	ug/L	8/22/2016 15:05
trans-1,3-Dichloropropene	< 2.00	ug/L	8/22/2016 15:05
Trichloroethene	< 2.00	ug/L	8/22/2016 15:05
Trichlorofluoromethane	< 2.00	ug/L	8/22/2016 15:05
Vinyl chloride	< 2.00	ug/L	8/22/2016 15:05

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Report Prepared Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-DUP-PS9

Lab Sample ID: 163436-13

Date Sampled: 8/9/2016

Matrix: Groundwater

Date Received: 8/10/2016

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	103	86 - 116		8/22/2016	15:05
4-Bromofluorobenzene	94.7	82.2 - 113		8/22/2016	15:05
Pentafluorobenzene	101	90.9 - 110		8/22/2016	15:05
Toluene-D8	98.6	90.8 - 109		8/22/2016	15:05

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x34703.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 Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: Trip Blank (T-722)

Lab Sample ID: 163436-14

Date Sampled: 8/9/2016

Matrix: Water

Date Received: 8/10/2016

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/22/2016 14:41
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/22/2016 14:41
1,1,2-Trichloroethane	< 2.00	ug/L		8/22/2016 14:41
1,1-Dichloroethane	< 2.00	ug/L		8/22/2016 14:41
1,1-Dichloroethene	< 2.00	ug/L		8/22/2016 14:41
1,2,3-Trichlorobenzene	< 5.00	ug/L		8/22/2016 14:41
1,2,4-Trichlorobenzene	< 5.00	ug/L		8/22/2016 14:41
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		8/22/2016 14:41
1,2-Dibromoethane	< 2.00	ug/L		8/22/2016 14:41
1,2-Dichlorobenzene	< 2.00	ug/L		8/22/2016 14:41
1,2-Dichloroethane	< 2.00	ug/L		8/22/2016 14:41
1,2-Dichloropropane	< 2.00	ug/L		8/22/2016 14:41
1,3-Dichlorobenzene	< 2.00	ug/L		8/22/2016 14:41
1,4-Dichlorobenzene	< 2.00	ug/L		8/22/2016 14:41
1,4-dioxane	< 20.0	ug/L		8/22/2016 14:41
2-Butanone	< 10.0	ug/L		8/22/2016 14:41
2-Hexanone	< 5.00	ug/L		8/22/2016 14:41
4-Methyl-2-pentanone	< 5.00	ug/L		8/22/2016 14:41
Acetone	< 10.0	ug/L		8/22/2016 14:41
Benzene	< 1.00	ug/L		8/22/2016 14:41
Bromochloromethane	< 5.00	ug/L		8/22/2016 14:41
Bromodichloromethane	< 2.00	ug/L		8/22/2016 14:41
Bromoform	< 5.00	ug/L		8/22/2016 14:41
Bromomethane	< 2.00	ug/L		8/22/2016 14:41
Carbon disulfide	< 2.00	ug/L		8/22/2016 14:41
Carbon Tetrachloride	< 2.00	ug/L		8/22/2016 14:41
Chlorobenzene	< 2.00	ug/L		8/22/2016 14:41

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Report Prepared Wednesday, August 24, 2016



Lab Project ID: 163436

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: Trip Blank (T-722)

Lab Sample ID: 163436-14

Date Sampled: 8/9/2016

Matrix: Water

Date Received: 8/10/2016

Chloroethane	< 2.00	ug/L	8/22/2016 14:41
Chloroform	< 2.00	ug/L	8/22/2016 14:41
Chloromethane	< 2.00	ug/L	8/22/2016 14:41
cis-1,2-Dichloroethene	< 2.00	ug/L	8/22/2016 14:41
cis-1,3-Dichloropropene	< 2.00	ug/L	8/22/2016 14:41
Cyclohexane	< 10.0	ug/L	8/22/2016 14:41
Dibromochloromethane	< 2.00	ug/L	8/22/2016 14:41
Dichlorodifluoromethane	< 2.00	ug/L	8/22/2016 14:41
Ethylbenzene	< 2.00	ug/L	8/22/2016 14:41
Freon 113	< 2.00	ug/L	8/22/2016 14:41
Isopropylbenzene	< 2.00	ug/L	8/22/2016 14:41
m,p-Xylene	< 2.00	ug/L	8/22/2016 14:41
Methyl acetate	< 2.00	ug/L	8/22/2016 14:41
Methyl tert-butyl Ether	< 2.00	ug/L	8/22/2016 14:41
Methylcyclohexane	< 2.00	ug/L	8/22/2016 14:41
Methylene chloride	< 5.00	ug/L	8/22/2016 14:41
o-Xylene	< 2.00	ug/L	8/22/2016 14:41
Styrene	< 5.00	ug/L	8/22/2016 14:41
Tetrachloroethene	< 2.00	ug/L	8/22/2016 14:41
Toluene	< 2.00	ug/L	8/22/2016 14:41
trans-1,2-Dichloroethene	< 2.00	ug/L	8/22/2016 14:41
trans-1,3-Dichloropropene	< 2.00	ug/L	8/22/2016 14:41
Trichloroethene	< 2.00	ug/L	8/22/2016 14:41
Trichlorofluoromethane	< 2.00	ug/L	8/22/2016 14:41
Vinyl chloride	< 2.00	ug/L	8/22/2016 14:41

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 Wednesday, August 24, 2016



Lab Project ID: 163436

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: Trip Blank (T-722)

Lab Sample ID: 163436-14

Date Sampled: 8/9/2016

Matrix: Water

Date Received: 8/10/2016

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>	
1,2-Dichloroethane-d4	101	86 - 116		8/22/2016	14:41
4-Bromofluorobenzene	96.3	82.2 - 113		8/22/2016	14:41
Pentafluorobenzene	102	90.9 - 110		8/22/2016	14:41
Toluene-D8	98.7	90.8 - 109		8/22/2016	14:41

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x34702.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 Wednesday, August 24, 2016



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.

"J" = Result estimated between the quantitation limit and half the quantitation limit.

"L" = Laboratory Control Sample recovery outside accepted QC limits.

"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.

"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*

"(1)" = Indicates data from primary column used for QC calculation.

"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.

"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS

LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term, or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation.

LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility.

LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

Pg 1 of 2

1 of 3



INVOICE TO:

Carriage factory

REQUESTED ANALYSIS

11/11/11

P/E

5⁰ Cited 8/10/16 16:39
By signing this form, client agrees to Paradigm Terms and Conditions (reverse).
Custody 5021 N 1/4. Sample de livered 6/29 client 6/29 8/10/16
See additional page for sample conditions.

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REQUESTED ANALYSIS

Turnaround Time	Report Supplements	
Availability contingent upon lab approval; additional fees may apply.		
Standard 5 day	<input type="checkbox"/> None Required	<input type="checkbox"/> None Required

Date/Time

See additional page for sample conditions



Chain of Custody Supplement

3 of 3

Client: Stantec
Lab Project ID: 163436

Completed by: Glenn Pezzulo
Date: 8/10/16

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			
Transferred to method-compliant container	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Headspace (<1 mL)	<input checked="" type="checkbox"/> VOA	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments			
Preservation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			
Chlorine Absent (<0.10 ppm per test strip)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments			
Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			
Temperature	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	5°C iced 8/10/16 16:39		
Sufficient Sample Quantity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			



ANALYTICAL REPORT

Lab Number:	L1625232
Client:	Paradigm Environmental Services 179 Lake Avenue Rochester, NY 14608
ATTN:	Rebecca Ross
Phone:	(585) 647-2530
Project Name:	163436
Project Number:	163436
Report Date:	08/17/16

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 163436
Project Number: 163436

Lab Number: L1625232
Report Date: 08/17/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1625232-01	163436-01 LI-RW-1-PS9	WATER	Not Specified	08/10/16 11:15	08/11/16
L1625232-02	163436-02 LI-RW-2-PS9	WATER	Not Specified	08/10/16 12:45	08/11/16
L1625232-03	163436-03 LI-RW-3-PS9	WATER	Not Specified	08/10/16 13:46	08/11/16
L1625232-04	163436-04 LI-RW-4-PS9	WATER	Not Specified	08/10/16 09:25	08/11/16
L1625232-05	163436-05 LI-RW-5-PS9	WATER	Not Specified	08/10/16 09:20	08/11/16
L1625232-06	163436-06 LI-RW-6-PS9	WATER	Not Specified	08/09/16 15:25	08/11/16
L1625232-07	163436-07 LI-RW-7-PS9	WATER	Not Specified	08/09/16 14:20	08/11/16
L1625232-08	163436-08 LI-RW-9-PS9	WATER	Not Specified	08/09/16 11:50	08/11/16
L1625232-09	163436-09 LI-RW12-PS9	WATER	Not Specified	08/09/16 10:47	08/11/16
L1625232-10	163436-10 LI-B102-MW-PS9	WATER	Not Specified	08/09/16 09:20	08/11/16
L1625232-11	163436-11 LI-B106-MW-PS9	WATER	Not Specified	08/10/16 10:25	08/11/16
L1625232-12	163436-12 LI-B108-MW-PS9	WATER	Not Specified	08/10/16 14:30	08/11/16
L1625232-13	163436-13 LI-DUP-PS9	WATER	Not Specified	08/09/16 11:55	08/11/16

Project Name: 163436
Project Number: 163436

Lab Number: L1625232
Report Date: 08/17/16

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 163436
Project Number: 163436

Lab Number: L1625232
Report Date: 08/17/16

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Lura L Troy

Title: Technical Director/Representative

Date: 08/17/16

INORGANICS & MISCELLANEOUS

Project Name: 163436

Project Number: 163436

Lab Number: L1625232

Report Date: 08/17/16

SAMPLE RESULTS

Lab ID: L1625232-01
Client ID: 163436-01 LI-RW-1-PS9
Sample Location: Not Specified
Matrix: Water

Date Collected: 08/10/16 11:15
Date Received: 08/11/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	7.51		mg/l	1.00	0.228	2	-	08/16/16 07:36	121,5310C	DW



Project Name: 163436

Project Number: 163436

Lab Number: L1625232

Report Date: 08/17/16

SAMPLE RESULTS

Lab ID: L1625232-02
Client ID: 163436-02 LI-RW-2-PS9
Sample Location: Not Specified
Matrix: Water

Date Collected: 08/10/16 12:45
Date Received: 08/11/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	7.97		mg/l	1.00	0.228	2	-	08/16/16 07:36	121,5310C	DW



Project Name: 163436

Project Number: 163436

Lab Number: L1625232

Report Date: 08/17/16

SAMPLE RESULTS

Lab ID: L1625232-03

Client ID: 163436-03 LI-RW-3-PS9

Sample Location: Not Specified

Matrix: Water

Date Collected: 08/10/16 13:46

Date Received: 08/11/16

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	8.28		mg/l	1.00	0.228	2	-	08/16/16 07:36	121,5310C	DW



Project Name: 163436

Project Number: 163436

Lab Number: L1625232

Report Date: 08/17/16

SAMPLE RESULTS

Lab ID: L1625232-04

Client ID: 163436-04 LI-RW-4-PS9

Sample Location: Not Specified

Matrix: Water

Date Collected: 08/10/16 09:25

Date Received: 08/11/16

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	13.4		mg/l	1.00	0.228	2	-	08/16/16 07:36	121,5310C	DW



Project Name: 163436

Project Number: 163436

Lab Number: L1625232

Report Date: 08/17/16

SAMPLE RESULTS

Lab ID: L1625232-05

Client ID: 163436-05 LI-RW-5-PS9

Sample Location: Not Specified

Matrix: Water

Date Collected: 08/10/16 09:20

Date Received: 08/11/16

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	3.69		mg/l	1.00	0.228	2	-	08/16/16 07:36	121,5310C	DW



Project Name: 163436

Project Number: 163436

Lab Number: L1625232

Report Date: 08/17/16

SAMPLE RESULTS

Lab ID: L1625232-06

Client ID: 163436-06 LI-RW-6-PS9

Sample Location: Not Specified

Matrix: Water

Date Collected: 08/09/16 15:25

Date Received: 08/11/16

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	2.09		mg/l	1.00	0.228	2	-	08/16/16 07:36	121,5310C	DW



Project Name: 163436

Project Number: 163436

Lab Number: L1625232

Report Date: 08/17/16

SAMPLE RESULTS

Lab ID: L1625232-07

Client ID: 163436-07 LI-RW-7-PS9

Sample Location: Not Specified

Matrix: Water

Date Collected: 08/09/16 14:20

Date Received: 08/11/16

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	3.68		mg/l	1.00	0.228	2	-	08/16/16 07:36	121,5310C	DW



Project Name: 163436

Project Number: 163436

Lab Number: L1625232

Report Date: 08/17/16

SAMPLE RESULTS

Lab ID: L1625232-08

Client ID: 163436-08 LI-RW-9-PS9

Sample Location: Not Specified

Matrix: Water

Date Collected: 08/09/16 11:50

Date Received: 08/11/16

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	2.64		mg/l	1.00	0.228	2	-	08/16/16 07:36	121,5310C	DW



Project Name: 163436

Project Number: 163436

Lab Number: L1625232

Report Date: 08/17/16

SAMPLE RESULTS

Lab ID: L1625232-09
Client ID: 163436-09 LI-RW12-PS9
Sample Location: Not Specified
Matrix: Water

Date Collected: 08/09/16 10:47
Date Received: 08/11/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	1.48		mg/l	1.00	0.228	2	-	08/16/16 07:36	121,5310C	DW



Project Name: 163436

Project Number: 163436

Lab Number: L1625232

Report Date: 08/17/16

SAMPLE RESULTS

Lab ID: L1625232-10
Client ID: 163436-10 LI-B102-MW-PS9
Sample Location: Not Specified
Matrix: Water

Date Collected: 08/09/16 09:20
Date Received: 08/11/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	2.62		mg/l	1.00	0.228	2	-	08/16/16 07:36	121,5310C	DW



Project Name: 163436

Project Number: 163436

Lab Number: L1625232

Report Date: 08/17/16

SAMPLE RESULTS

Lab ID: L1625232-11
Client ID: 163436-11 LI-B106-MW-PS9
Sample Location: Not Specified
Matrix: Water

Date Collected: 08/10/16 10:25
Date Received: 08/11/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	7.38		mg/l	1.00	0.228	2	-	08/16/16 07:36	121,5310C	DW



Project Name: 163436

Project Number: 163436

Lab Number: L1625232

Report Date: 08/17/16

SAMPLE RESULTS

Lab ID: L1625232-12
Client ID: 163436-12 LI-B108-MW-PS9
Sample Location: Not Specified
Matrix: Water

Date Collected: 08/10/16 14:30
Date Received: 08/11/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	27.6		mg/l	2.00	0.456	4	-	08/16/16 07:36	121,5310C	DW



Project Name: 163436

Project Number: 163436

Lab Number: L1625232

Report Date: 08/17/16

SAMPLE RESULTS

Lab ID: L1625232-13

Client ID: 163436-13 LI-DUP-PS9

Sample Location: Not Specified

Matrix: Water

Date Collected: 08/09/16 11:55

Date Received: 08/11/16

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	2.65		mg/l	1.00	0.228	2	-	08/16/16 07:36	121,5310C	DW



Project Name: 163436

Lab Number: L1625232

Project Number: 163436

Report Date: 08/17/16

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-13 Batch: WG923068-1										
Total Organic Carbon	ND		mg/l	0.500	0.114	1	-	08/16/16 07:36	121,5310C	DW



Lab Control Sample Analysis
Batch Quality Control

Project Name: 163436

Project Number: 163436

Lab Number: L1625232

Report Date: 08/17/16

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13 Batch: WG923068-2								
Total Organic Carbon	98		-		90-110	-		

Matrix Spike Analysis

Batch Quality Control

Project Name: 163436

Lab Number: L1625232

Project Number: 163436

Report Date: 08/17/16

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG923068-4 QC Sample: L1625232-10 Client ID: 163436-10 LI-B102-MW-PS9												
Total Organic Carbon	2.62	8	9.53	86		-	-		80-120	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 163436

Project Number: 163436

Lab Number: L1625232

Report Date: 08/17/16

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG923068-3 QC Sample: L1625232-10 Client ID: 163436-10 LI-B102-MW-PS9						
Total Organic Carbon	2.62	2.77	mg/l	6		20

Project Name: 163436

Lab Number: L1625232

Project Number: 163436

Report Date: 08/17/16

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal**Cooler**

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1625232-01A	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1625232-01B	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1625232-02A	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1625232-02B	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1625232-03A	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1625232-03B	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1625232-04A	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1625232-04B	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1625232-05A	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1625232-05B	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1625232-06A	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1625232-06B	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1625232-07A	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1625232-07B	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1625232-08A	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1625232-08B	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1625232-09A	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1625232-09B	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1625232-10A	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1625232-10A1	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1625232-10A2	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1625232-10B	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1625232-10B1	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1625232-10B2	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1625232-11A	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1625232-11B	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1625232-12A	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1625232-12B	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)
L1625232-13A	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)

*Values in parentheses indicate holding time in days



Project Name: 163436**Project Number:** 163436**Lab Number:** L1625232**Report Date:** 08/17/16**Container Information**

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1625232-13B	Vial H2SO4 preserved	A	N/A	4.2	Y	Absent	TOC-5310(28)

*Values in parentheses indicate holding time in days



Project Name: 163436**Lab Number:** L1625232**Project Number:** 163436**Report Date:** 08/17/16

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: DU Report with 'J' Qualifiers



Project Name: 163436**Lab Number:** L1625232**Project Number:** 163436**Report Date:** 08/17/16**Data Qualifiers**

reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: 163436
Project Number: 163436

Lab Number: L1625232
Report Date: 08/17/16

REFERENCES

- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.

ID No.:17873

Facility: **Company-wide**

Revision 7

Department: **Quality Assurance**

Published Date: 8/5/2016 11:25:56 AM

Title: **Certificate/Approval Program Summary**

Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility**EPA 624:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**EPA 300:** DW: Bromide**EPA 6860:** NPW and SCM: Perchlorate**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation**EPA 9012B:** NPW: Total Cyanide**EPA 9050A:** NPW: Specific Conductance**SM3500:** NPW: Ferrous Iron**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.**SM5310C:** DW: Dissolved Organic Carbon**Mansfield Facility****SM 2540D:** TSS**EPA 3005A** NPW**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Biological Tissue Matrix: **EPA 3050B**

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.****EPA 624:** Volatile Halocarbons & Aromatics,**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF.****Mansfield Facility:****Drinking Water****EPA 200.7:** Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1 Hg.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



CHAIN OF CUSTODY

10F2
L625232

11148

REPORT TO:

INVOICE TO:

COMPANY: Paradigm Environmental	COMPANY: Same	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS: 179 Lake Avenue	ADDRESS:		
CITY: Rochester STATE: NY ZIP: 14608	CITY: STATE: ZIP:	TURNAROUND TIME: (WORKING DAYS)	
PHONE: FAX:	PHONE: FAX:	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/> 16 <input type="checkbox"/> 17 <input type="checkbox"/> 18 <input type="checkbox"/> 19 <input type="checkbox"/> 20 <input type="checkbox"/> 21 <input type="checkbox"/> 22 <input type="checkbox"/> 23 <input type="checkbox"/> 24 <input type="checkbox"/> 25 <input type="checkbox"/> 26 <input type="checkbox"/> 27 <input type="checkbox"/> 28 <input type="checkbox"/> 29 <input type="checkbox"/> 30 <input type="checkbox"/> 31 <input type="checkbox"/> 32 <input type="checkbox"/> 33 <input type="checkbox"/> 34 <input type="checkbox"/> 35 <input type="checkbox"/> 36 <input type="checkbox"/> 37 <input type="checkbox"/> 38 <input type="checkbox"/> 39 <input type="checkbox"/> 40 <input type="checkbox"/> 41 <input type="checkbox"/> 42 <input type="checkbox"/> 43 <input type="checkbox"/> 44 <input type="checkbox"/> 45 <input type="checkbox"/> 46 <input type="checkbox"/> 47 <input type="checkbox"/> 48 <input type="checkbox"/> 49 <input type="checkbox"/> 50 <input type="checkbox"/> 51 <input type="checkbox"/> 52 <input type="checkbox"/> 53 <input type="checkbox"/> 54 <input type="checkbox"/> 55 <input type="checkbox"/> 56 <input type="checkbox"/> 57 <input type="checkbox"/> 58 <input type="checkbox"/> 59 <input type="checkbox"/> 60 <input type="checkbox"/> 61 <input type="checkbox"/> 62 <input type="checkbox"/> 63 <input type="checkbox"/> 64 <input type="checkbox"/> 65 <input type="checkbox"/> 66 <input type="checkbox"/> 67 <input type="checkbox"/> 68 <input type="checkbox"/> 69 <input type="checkbox"/> 70 <input type="checkbox"/> 71 <input type="checkbox"/> 72 <input type="checkbox"/> 73 <input type="checkbox"/> 74 <input type="checkbox"/> 75 <input type="checkbox"/> 76 <input type="checkbox"/> 77 <input type="checkbox"/> 78 <input type="checkbox"/> 79 <input type="checkbox"/> 80 <input type="checkbox"/> 81 <input type="checkbox"/> 82 <input type="checkbox"/> 83 <input type="checkbox"/> 84 <input type="checkbox"/> 85 <input type="checkbox"/> 86 <input type="checkbox"/> 87 <input type="checkbox"/> 88 <input type="checkbox"/> 89 <input type="checkbox"/> 90 <input type="checkbox"/> 91 <input type="checkbox"/> 92 <input type="checkbox"/> 93 <input type="checkbox"/> 94 <input type="checkbox"/> 95 <input type="checkbox"/> 96 <input type="checkbox"/> 97 <input type="checkbox"/> 98 <input type="checkbox"/> 99 <input type="checkbox"/> 100	
ATTN: Reporting	ATTN: Accounts Payable	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10 <input type="checkbox"/> 11 <input type="checkbox"/> 12 <input type="checkbox"/> 13 <input type="checkbox"/> 14 <input type="checkbox"/> 15 <input type="checkbox"/> 16 <input type="checkbox"/> 17 <input type="checkbox"/> 18 <input type="checkbox"/> 19 <input type="checkbox"/> 20 <input type="checkbox"/> 21 <input type="checkbox"/> 22 <input type="checkbox"/> 23 <input type="checkbox"/> 24 <input type="checkbox"/> 25 <input type="checkbox"/> 26 <input type="checkbox"/> 27 <input type="checkbox"/> 28 <input type="checkbox"/> 29 <input type="checkbox"/> 30 <input type="checkbox"/> 31 <input type="checkbox"/> 32 <input type="checkbox"/> 33 <input type="checkbox"/> 34 <input type="checkbox"/> 35 <input type="checkbox"/> 36 <input type="checkbox"/> 37 <input type="checkbox"/> 38 <input type="checkbox"/> 39 <input type="checkbox"/> 40 <input type="checkbox"/> 41 <input type="checkbox"/> 42 <input type="checkbox"/> 43 <input type="checkbox"/> 44 <input type="checkbox"/> 45 <input type="checkbox"/> 46 <input type="checkbox"/> 47 <input type="checkbox"/> 48 <input type="checkbox"/> 49 <input type="checkbox"/> 50 <input type="checkbox"/> 51 <input type="checkbox"/> 52 <input type="checkbox"/> 53 <input type="checkbox"/> 54 <input type="checkbox"/> 55 <input type="checkbox"/> 56 <input type="checkbox"/> 57 <input type="checkbox"/> 58 <input type="checkbox"/> 59 <input type="checkbox"/> 60 <input type="checkbox"/> 61 <input type="checkbox"/> 62 <input type="checkbox"/> 63 <input type="checkbox"/> 64 <input type="checkbox"/> 65 <input type="checkbox"/> 66 <input type="checkbox"/> 67 <input type="checkbox"/> 68 <input type="checkbox"/> 69 <input type="checkbox"/> 70 <input type="checkbox"/> 71 <input type="checkbox"/> 72 <input type="checkbox"/> 73 <input type="checkbox"/> 74 <input type="checkbox"/> 75 <input type="checkbox"/> 76 <input type="checkbox"/> 77 <input type="checkbox"/> 78 <input type="checkbox"/> 79 <input type="checkbox"/> 80 <input type="checkbox"/> 81 <input type="checkbox"/> 82 <input type="checkbox"/> 83 <input type="checkbox"/> 84 <input type="checkbox"/> 85 <input type="checkbox"/> 86 <input type="checkbox"/> 87 <input type="checkbox"/> 88 <input type="checkbox"/> 89 <input type="checkbox"/> 90 <input type="checkbox"/> 91 <input type="checkbox"/> 92 <input type="checkbox"/> 93 <input type="checkbox"/> 94 <input type="checkbox"/> 95 <input type="checkbox"/> 96 <input type="checkbox"/> 97 <input type="checkbox"/> 98 <input type="checkbox"/> 99 <input type="checkbox"/> 100	
COMMENTS: Please email results to reporting@paradigmenv.com		Date Due: 8/19/16 For data	

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	CONTAINER	TOC	REMARKS	PARADIGM LAB SAMPLE NUMBER
1 8/10/16	11:15			163436-01	Ground Water	2	X	Report J Flags, SDG closed. ASP Cat B Package Due 9/1/16 SW-846 HT's.	
2	12:45			-02				LI-RW-1-PS9	
3	13:46			-03				LI-RW-2-PS9	
4	09:25			-04				LI-RW-3-PS9	
5	09:20			-05				LI-RW-4-PS9	
6 8/9/16	15:25			-06				LI-RW-5-PS9	
7	14:20			-07				LI-RW-6-PS9	
8	11:50			-08				LI-RW-7-PS9	
9	10:47			-09				LI-RW-8-PS9	
10	09:20			-10				LI-RW-9-PS9	
								LI-RW-10-PS9	
								LI-B 102-MW-PS9	

LAB USE ONLY BELOW THIS LINE

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

Receipt Parameter	NELAC Compliance
Container Type:	Y <input type="checkbox"/> N <input type="checkbox"/>
Comments:	
Preservation:	Y <input type="checkbox"/> N <input type="checkbox"/>
Comments:	
Holding Time:	Y <input type="checkbox"/> N <input type="checkbox"/>
Comments:	
Temperature:	Y <input type="checkbox"/> N <input type="checkbox"/>
Comments:	

Client

Sampled By	Date/Time
<i>[Signature]</i>	8/11/16 16:00
Relinquished By	Date/Time
<i>[Signature]</i>	8/11/16 18:00
Received By	Date/Time
<i>[Signature]</i>	8/11/16
Received By	Date/Time
<i>[Signature]</i>	8/12/16 9:40
Received @ Lab By	Date/Time

Total Cost:

P.I.F.



CHAIN OF CUSTODY

2 of 2
1625232

11148

REPORT TO:

INVOICE TO:

COMPANY: Paradigm Environmental	COMPANY: Same	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS: 179 Lake Avenue	ADDRESS:		
CITY: Rochester STATE: NY ZIP: 14608	CITY: STATE: ZIP:	TURNAROUND TIME: (WORKING DAYS)	
PHONE: FAX:	PHONE: FAX:		
ATTN: Reporting	ATTN: Accounts Payable	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> OTHER	
COMMENTS: Please email results to reporting@paradigmenv.com		Date Due:	

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	CONTAINER	REMARKS	PARADIGM LAB SAMPLE NUMBER
1 8/10/16	10:25			163436-11	Ground water	2 x TOC	LI-B106-MW-PS9	
2 ↓	14:30			-12	↓	↓	LI-B108-MW-PS9	
3 8/9/16	11:55			-13	↓	↓	LI-DUP-PS9	
4								
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 <input type="checkbox"/> N <input type="checkbox"/>
Comments:	
Preservation:	Y <input type="checkbox"/> N <input type="checkbox"/>
Comments:	
Holding Time:	Y <input type="checkbox"/> N <input type="checkbox"/>
Comments:	
Temperature:	Y <input type="checkbox"/> N <input type="checkbox"/>
Comments:	

Client

Sampled By	Date/Time
<i>[Signature]</i>	8/11/16 16:00
Relinquished By	Date/Time
<i>[Signature]</i>	8/11/16 18:00
Received By	Date/Time
<i>[Signature]</i>	8/11/16
Received By	Date/Time
<i>[Signature]</i>	8/12/16 0140
Received @ Lab By	Date/Time

Total Cost:

P.I.F.



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-1-PS15

Lab Sample ID: 170564-01

Date Sampled: 2/13/2017

Matrix: Groundwater

Date Received: 2/15/2017

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2017 02:42
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2017 02:42
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2017 02:42
1,1-Dichloroethane	< 2.00	ug/L		2/24/2017 02:42
1,1-Dichloroethene	< 2.00	ug/L		2/24/2017 02:42
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2017 02:42
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2017 02:42
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2017 02:42
1,2-Dibromoethane	< 2.00	ug/L		2/24/2017 02:42
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2017 02:42
1,2-Dichloroethane	< 2.00	ug/L		2/24/2017 02:42
1,2-Dichloropropane	< 2.00	ug/L		2/24/2017 02:42
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2017 02:42
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2017 02:42
1,4-dioxane	< 20.0	ug/L		2/24/2017 02:42
2-Butanone	< 10.0	ug/L		2/24/2017 02:42
2-Hexanone	< 5.00	ug/L		2/24/2017 02:42
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2017 02:42
Acetone	< 10.0	ug/L		2/24/2017 02:42
Benzene	< 1.00	ug/L		2/24/2017 02:42
Bromochloromethane	< 5.00	ug/L		2/24/2017 02:42
Bromodichloromethane	< 2.00	ug/L		2/24/2017 02:42
Bromoform	< 5.00	ug/L		2/24/2017 02:42
Bromomethane	< 2.00	ug/L		2/24/2017 02:42
Carbon disulfide	< 2.00	ug/L		2/24/2017 02:42
Carbon Tetrachloride	< 2.00	ug/L		2/24/2017 02:42
Chlorobenzene	< 2.00	ug/L		2/24/2017 02:42

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 Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-1-PS15

Lab Sample ID: 170564-01

Date Sampled: 2/13/2017

Matrix: Groundwater

Date Received: 2/15/2017

Chloroethane	< 2.00	ug/L	2/24/2017 02:42
Chloroform	< 2.00	ug/L	2/24/2017 02:42
Chloromethane	< 2.00	ug/L	2/24/2017 02:42
cis-1,2-Dichloroethene	< 2.00	ug/L	2/24/2017 02:42
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2017 02:42
Cyclohexane	< 10.0	ug/L	2/24/2017 02:42
Dibromochloromethane	< 2.00	ug/L	2/24/2017 02:42
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2017 02:42
Ethylbenzene	< 2.00	ug/L	2/24/2017 02:42
Freon 113	< 2.00	ug/L	2/24/2017 02:42
Isopropylbenzene	< 2.00	ug/L	2/24/2017 02:42
m,p-Xylene	< 2.00	ug/L	2/24/2017 02:42
Methyl acetate	< 2.00	ug/L	2/24/2017 02:42
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2017 02:42
Methylcyclohexane	< 2.00	ug/L	2/24/2017 02:42
Methylene chloride	< 5.00	ug/L	2/24/2017 02:42
o-Xylene	< 2.00	ug/L	2/24/2017 02:42
Styrene	< 5.00	ug/L	2/24/2017 02:42
Tetrachloroethene	< 2.00	ug/L	2/24/2017 02:42
Toluene	< 2.00	ug/L	2/24/2017 02:42
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2017 02:42
trans-1,3-Dichloropropene	< 2.00	ug/L	2/24/2017 02:42
Trichloroethene	< 2.00	ug/L	2/24/2017 02:42
Trichlorofluoromethane	< 2.00	ug/L	2/24/2017 02:42
Vinyl chloride	< 2.00	ug/L	2/24/2017 02:42

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 Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-1-PS15

Lab Sample ID: 170564-01

Date Sampled: 2/13/2017

Matrix: Groundwater

Date Received: 2/15/2017

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	100	81.2 - 120		2/24/2017	02:42
4-Bromofluorobenzene	88.3	82.4 - 112		2/24/2017	02:42
Pentafluorobenzene	102	90.2 - 112		2/24/2017	02:42
Toluene-D8	94.6	89.9 - 109		2/24/2017	02:42

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x39448.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 Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-2-PS15

Lab Sample ID: 170564-02

Date Sampled: 2/13/2017

Matrix: Groundwater

Date Received: 2/15/2017

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2017 07:37
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2017 07:37
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2017 07:37
1,1-Dichloroethane	< 2.00	ug/L	M	2/24/2017 07:37
1,1-Dichloroethene	< 2.00	ug/L		2/24/2017 07:37
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2017 07:37
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2017 07:37
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2017 07:37
1,2-Dibromoethane	< 2.00	ug/L		2/24/2017 07:37
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2017 07:37
1,2-Dichloroethane	< 2.00	ug/L		2/24/2017 07:37
1,2-Dichloropropane	< 2.00	ug/L		2/24/2017 07:37
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2017 07:37
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2017 07:37
1,4-dioxane	< 20.0	ug/L		2/24/2017 07:37
2-Butanone	< 10.0	ug/L		2/24/2017 07:37
2-Hexanone	< 5.00	ug/L		2/24/2017 07:37
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2017 07:37
Acetone	< 10.0	ug/L		2/24/2017 07:37
Benzene	< 1.00	ug/L		2/24/2017 07:37
Bromochloromethane	< 5.00	ug/L		2/24/2017 07:37
Bromodichloromethane	< 2.00	ug/L		2/24/2017 07:37
Bromoform	< 5.00	ug/L		2/24/2017 07:37
Bromomethane	< 2.00	ug/L		2/24/2017 07:37
Carbon disulfide	< 2.00	ug/L		2/24/2017 07:37
Carbon Tetrachloride	< 2.00	ug/L		2/24/2017 07:37
Chlorobenzene	< 2.00	ug/L		2/24/2017 07:37

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Report Prepared Tuesday, February 28, 2017



Lab Project ID: 170564

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-RW-2-PS15

Lab Sample ID: 170564-02

Date Sampled: 2/13/2017

Matrix: Groundwater

Date Received: 2/15/2017

Chloroethane	< 2.00	ug/L		2/24/2017 07:37
Chloroform	< 2.00	ug/L		2/24/2017 07:37
Chloromethane	< 2.00	ug/L		2/24/2017 07:37
cis-1,2-Dichloroethene	< 2.00	ug/L		2/24/2017 07:37
cis-1,3-Dichloropropene	< 2.00	ug/L	M	2/24/2017 07:37
Cyclohexane	< 10.0	ug/L		2/24/2017 07:37
Dibromochloromethane	< 2.00	ug/L		2/24/2017 07:37
Dichlorodifluoromethane	< 2.00	ug/L		2/24/2017 07:37
Ethylbenzene	< 2.00	ug/L		2/24/2017 07:37
Freon 113	< 2.00	ug/L		2/24/2017 07:37
Isopropylbenzene	< 2.00	ug/L		2/24/2017 07:37
m,p-Xylene	< 2.00	ug/L		2/24/2017 07:37
Methyl acetate	< 2.00	ug/L		2/24/2017 07:37
Methyl tert-butyl Ether	< 2.00	ug/L		2/24/2017 07:37
Methylcyclohexane	< 2.00	ug/L		2/24/2017 07:37
Methylene chloride	< 5.00	ug/L		2/24/2017 07:37
o-Xylene	< 2.00	ug/L		2/24/2017 07:37
Styrene	< 5.00	ug/L		2/24/2017 07:37
Tetrachloroethene	< 2.00	ug/L		2/24/2017 07:37
Toluene	< 2.00	ug/L		2/24/2017 07:37
trans-1,2-Dichloroethene	< 2.00	ug/L		2/24/2017 07:37
trans-1,3-Dichloropropene	< 2.00	ug/L	M	2/24/2017 07:37
Trichloroethene	< 2.00	ug/L		2/24/2017 07:37
Trichlorofluoromethane	< 2.00	ug/L		2/24/2017 07:37
Vinyl chloride	< 2.00	ug/L		2/24/2017 07:37

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Report Prepared Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-2-PS15

Lab Sample ID: 170564-02

Date Sampled: 2/13/2017

Matrix: Groundwater

Date Received: 2/15/2017

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	102	81.2 - 120		2/24/2017	07:37
4-Bromofluorobenzene	84.8	82.4 - 112		2/24/2017	07:37
Pentafluorobenzene	98.2	90.2 - 112		2/24/2017	07:37
Toluene-D8	91.8	89.9 - 109		2/24/2017	07:37

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x39459.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 Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-3-PS15

Lab Sample ID: 170564-03

Date Sampled: 2/13/2017

Matrix: Groundwater

Date Received: 2/15/2017

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2017 03:06
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2017 03:06
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2017 03:06
1,1-Dichloroethane	< 2.00	ug/L		2/24/2017 03:06
1,1-Dichloroethene	< 2.00	ug/L		2/24/2017 03:06
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2017 03:06
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2017 03:06
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2017 03:06
1,2-Dibromoethane	< 2.00	ug/L		2/24/2017 03:06
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2017 03:06
1,2-Dichloroethane	< 2.00	ug/L		2/24/2017 03:06
1,2-Dichloropropane	< 2.00	ug/L		2/24/2017 03:06
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2017 03:06
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2017 03:06
1,4-dioxane	< 20.0	ug/L		2/24/2017 03:06
2-Butanone	< 10.0	ug/L		2/24/2017 03:06
2-Hexanone	< 5.00	ug/L		2/24/2017 03:06
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2017 03:06
Acetone	< 10.0	ug/L		2/24/2017 03:06
Benzene	< 1.00	ug/L		2/24/2017 03:06
Bromochloromethane	< 5.00	ug/L		2/24/2017 03:06
Bromodichloromethane	< 2.00	ug/L		2/24/2017 03:06
Bromoform	< 5.00	ug/L		2/24/2017 03:06
Bromomethane	< 2.00	ug/L		2/24/2017 03:06
Carbon disulfide	< 2.00	ug/L		2/24/2017 03:06
Carbon Tetrachloride	< 2.00	ug/L		2/24/2017 03:06
Chlorobenzene	< 2.00	ug/L		2/24/2017 03:06

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Report Prepared Tuesday, February 28, 2017



Lab Project ID: 170564

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-RW-3-PS15

Lab Sample ID: 170564-03

Date Sampled: 2/13/2017

Matrix: Groundwater

Date Received: 2/15/2017

Chloroethane	< 2.00	ug/L		2/24/2017 03:06
Chloroform	< 2.00	ug/L		2/24/2017 03:06
Chloromethane	< 2.00	ug/L		2/24/2017 03:06
cis-1,2-Dichloroethene	< 2.00	ug/L		2/24/2017 03:06
cis-1,3-Dichloropropene	< 2.00	ug/L		2/24/2017 03:06
Cyclohexane	< 10.0	ug/L		2/24/2017 03:06
Dibromochloromethane	< 2.00	ug/L		2/24/2017 03:06
Dichlorodifluoromethane	< 2.00	ug/L		2/24/2017 03:06
Ethylbenzene	< 2.00	ug/L		2/24/2017 03:06
Freon 113	< 2.00	ug/L		2/24/2017 03:06
Isopropylbenzene	< 2.00	ug/L		2/24/2017 03:06
m,p-Xylene	< 2.00	ug/L		2/24/2017 03:06
Methyl acetate	< 2.00	ug/L		2/24/2017 03:06
Methyl tert-butyl Ether	1.35	ug/L	J	2/24/2017 03:06
Methylcyclohexane	< 2.00	ug/L		2/24/2017 03:06
Methylene chloride	< 5.00	ug/L		2/24/2017 03:06
o-Xylene	< 2.00	ug/L		2/24/2017 03:06
Styrene	< 5.00	ug/L		2/24/2017 03:06
Tetrachloroethene	< 2.00	ug/L		2/24/2017 03:06
Toluene	< 2.00	ug/L		2/24/2017 03:06
trans-1,2-Dichloroethene	< 2.00	ug/L		2/24/2017 03:06
trans-1,3-Dichloropropene	< 2.00	ug/L		2/24/2017 03:06
Trichloroethene	< 2.00	ug/L		2/24/2017 03:06
Trichlorofluoromethane	< 2.00	ug/L		2/24/2017 03:06
Vinyl chloride	< 2.00	ug/L		2/24/2017 03:06

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Report Prepared Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-3-PS15

Lab Sample ID: 170564-03

Date Sampled: 2/13/2017

Matrix: Groundwater

Date Received: 2/15/2017

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	101	81.2 - 120		2/24/2017	03:06
4-Bromofluorobenzene	88.6	82.4 - 112		2/24/2017	03:06
Pentafluorobenzene	99.9	90.2 - 112		2/24/2017	03:06
Toluene-D8	93.2	89.9 - 109		2/24/2017	03:06

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x39449.D

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Report Prepared Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-4-PS15

Lab Sample ID: 170564-04

Date Sampled: 2/13/2017

Matrix: Groundwater

Date Received: 2/15/2017

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2017 03:30
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2017 03:30
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2017 03:30
1,1-Dichloroethane	< 2.00	ug/L		2/24/2017 03:30
1,1-Dichloroethene	< 2.00	ug/L		2/24/2017 03:30
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2017 03:30
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2017 03:30
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2017 03:30
1,2-Dibromoethane	< 2.00	ug/L		2/24/2017 03:30
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2017 03:30
1,2-Dichloroethane	< 2.00	ug/L		2/24/2017 03:30
1,2-Dichloropropane	< 2.00	ug/L		2/24/2017 03:30
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2017 03:30
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2017 03:30
1,4-dioxane	< 20.0	ug/L		2/24/2017 03:30
2-Butanone	< 10.0	ug/L		2/24/2017 03:30
2-Hexanone	< 5.00	ug/L		2/24/2017 03:30
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2017 03:30
Acetone	< 10.0	ug/L		2/24/2017 03:30
Benzene	< 1.00	ug/L		2/24/2017 03:30
Bromochloromethane	< 5.00	ug/L		2/24/2017 03:30
Bromodichloromethane	< 2.00	ug/L		2/24/2017 03:30
Bromoform	< 5.00	ug/L		2/24/2017 03:30
Bromomethane	< 2.00	ug/L		2/24/2017 03:30
Carbon disulfide	< 2.00	ug/L		2/24/2017 03:30
Carbon Tetrachloride	< 2.00	ug/L		2/24/2017 03:30
Chlorobenzene	< 2.00	ug/L		2/24/2017 03:30

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Report Prepared Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-4-PS15

Lab Sample ID: 170564-04

Date Sampled: 2/13/2017

Matrix: Groundwater

Date Received: 2/15/2017

Chloroethane	< 2.00	ug/L	2/24/2017 03:30
Chloroform	< 2.00	ug/L	2/24/2017 03:30
Chloromethane	< 2.00	ug/L	2/24/2017 03:30
cis-1,2-Dichloroethene	4.93	ug/L	2/24/2017 03:30
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2017 03:30
Cyclohexane	< 10.0	ug/L	2/24/2017 03:30
Dibromochloromethane	< 2.00	ug/L	2/24/2017 03:30
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2017 03:30
Ethylbenzene	< 2.00	ug/L	2/24/2017 03:30
Freon 113	< 2.00	ug/L	2/24/2017 03:30
Isopropylbenzene	< 2.00	ug/L	2/24/2017 03:30
m,p-Xylene	< 2.00	ug/L	2/24/2017 03:30
Methyl acetate	< 2.00	ug/L	2/24/2017 03:30
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2017 03:30
Methylcyclohexane	< 2.00	ug/L	2/24/2017 03:30
Methylene chloride	< 5.00	ug/L	2/24/2017 03:30
o-Xylene	< 2.00	ug/L	2/24/2017 03:30
Styrene	< 5.00	ug/L	2/24/2017 03:30
Tetrachloroethene	< 2.00	ug/L	2/24/2017 03:30
Toluene	< 2.00	ug/L	2/24/2017 03:30
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2017 03:30
trans-1,3-Dichloropropene	< 2.00	ug/L	2/24/2017 03:30
Trichloroethene	< 2.00	ug/L	2/24/2017 03:30
Trichlorofluoromethane	< 2.00	ug/L	2/24/2017 03:30
Vinyl chloride	1.39	ug/L	J 2/24/2017 03:30

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Report Prepared Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-4-PS15

Lab Sample ID: 170564-04

Date Sampled: 2/13/2017

Matrix: Groundwater

Date Received: 2/15/2017

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	102	81.2 - 120		2/24/2017 03:30
4-Bromofluorobenzene	87.2	82.4 - 112		2/24/2017 03:30
Pentafluorobenzene	101	90.2 - 112		2/24/2017 03:30
Toluene-D8	93.2	89.9 - 109		2/24/2017 03:30

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x39450.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 Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-5-PS15

Lab Sample ID: 170564-05

Date Sampled: 2/14/2017

Matrix: Groundwater

Date Received: 2/15/2017

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2017 03:53
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2017 03:53
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2017 03:53
1,1-Dichloroethane	< 2.00	ug/L		2/24/2017 03:53
1,1-Dichloroethene	< 2.00	ug/L		2/24/2017 03:53
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2017 03:53
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2017 03:53
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2017 03:53
1,2-Dibromoethane	< 2.00	ug/L		2/24/2017 03:53
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2017 03:53
1,2-Dichloroethane	< 2.00	ug/L		2/24/2017 03:53
1,2-Dichloropropane	< 2.00	ug/L		2/24/2017 03:53
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2017 03:53
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2017 03:53
1,4-dioxane	< 20.0	ug/L		2/24/2017 03:53
2-Butanone	< 10.0	ug/L		2/24/2017 03:53
2-Hexanone	< 5.00	ug/L		2/24/2017 03:53
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2017 03:53
Acetone	< 10.0	ug/L		2/24/2017 03:53
Benzene	< 1.00	ug/L		2/24/2017 03:53
Bromochloromethane	< 5.00	ug/L		2/24/2017 03:53
Bromodichloromethane	< 2.00	ug/L		2/24/2017 03:53
Bromoform	< 5.00	ug/L		2/24/2017 03:53
Bromomethane	< 2.00	ug/L		2/24/2017 03:53
Carbon disulfide	< 2.00	ug/L		2/24/2017 03:53
Carbon Tetrachloride	< 2.00	ug/L		2/24/2017 03:53
Chlorobenzene	< 2.00	ug/L		2/24/2017 03:53

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Report Prepared Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-5-PS15

Lab Sample ID: 170564-05

Date Sampled: 2/14/2017

Matrix: Groundwater

Date Received: 2/15/2017

Chloroethane	< 2.00	ug/L	2/24/2017 03:53
Chloroform	< 2.00	ug/L	2/24/2017 03:53
Chloromethane	< 2.00	ug/L	2/24/2017 03:53
cis-1,2-Dichloroethene	< 2.00	ug/L	2/24/2017 03:53
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2017 03:53
Cyclohexane	< 10.0	ug/L	2/24/2017 03:53
Dibromochloromethane	< 2.00	ug/L	2/24/2017 03:53
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2017 03:53
Ethylbenzene	< 2.00	ug/L	2/24/2017 03:53
Freon 113	< 2.00	ug/L	2/24/2017 03:53
Isopropylbenzene	< 2.00	ug/L	2/24/2017 03:53
m,p-Xylene	< 2.00	ug/L	2/24/2017 03:53
Methyl acetate	< 2.00	ug/L	2/24/2017 03:53
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2017 03:53
Methylcyclohexane	< 2.00	ug/L	2/24/2017 03:53
Methylene chloride	< 5.00	ug/L	2/24/2017 03:53
o-Xylene	< 2.00	ug/L	2/24/2017 03:53
Styrene	< 5.00	ug/L	2/24/2017 03:53
Tetrachloroethene	< 2.00	ug/L	2/24/2017 03:53
Toluene	< 2.00	ug/L	2/24/2017 03:53
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2017 03:53
trans-1,3-Dichloropropene	< 2.00	ug/L	2/24/2017 03:53
Trichloroethene	< 2.00	ug/L	2/24/2017 03:53
Trichlorofluoromethane	< 2.00	ug/L	2/24/2017 03:53
Vinyl chloride	< 2.00	ug/L	2/24/2017 03:53

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Report Prepared Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-5-PS15

Lab Sample ID: 170564-05

Date Sampled: 2/14/2017

Matrix: Groundwater

Date Received: 2/15/2017

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	103	81.2 - 120		2/24/2017 03:53
4-Bromofluorobenzene	86.0	82.4 - 112		2/24/2017 03:53
Pentafluorobenzene	98.5	90.2 - 112		2/24/2017 03:53
Toluene-D8	93.3	89.9 - 109		2/24/2017 03:53

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x39451.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 Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-6-PS15

Lab Sample ID: 170564-06

Date Sampled: 2/14/2017

Matrix: Groundwater

Date Received: 2/15/2017

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 4.00	ug/L		2/24/2017 09:54
1,1,2,2-Tetrachloroethane	< 4.00	ug/L		2/24/2017 09:54
1,1,2-Trichloroethane	< 4.00	ug/L		2/24/2017 09:54
1,1-Dichloroethane	< 4.00	ug/L		2/24/2017 09:54
1,1-Dichloroethene	< 4.00	ug/L		2/24/2017 09:54
1,2,3-Trichlorobenzene	< 10.0	ug/L		2/24/2017 09:54
1,2,4-Trichlorobenzene	< 10.0	ug/L		2/24/2017 09:54
1,2-Dibromo-3-Chloropropane	< 20.0	ug/L		2/24/2017 09:54
1,2-Dibromoethane	< 4.00	ug/L		2/24/2017 09:54
1,2-Dichlorobenzene	< 4.00	ug/L		2/24/2017 09:54
1,2-Dichloroethane	< 4.00	ug/L		2/24/2017 09:54
1,2-Dichloropropane	< 4.00	ug/L		2/24/2017 09:54
1,3-Dichlorobenzene	< 4.00	ug/L		2/24/2017 09:54
1,4-Dichlorobenzene	< 4.00	ug/L		2/24/2017 09:54
1,4-dioxane	< 40.0	ug/L		2/24/2017 09:54
2-Butanone	< 20.0	ug/L		2/24/2017 09:54
2-Hexanone	< 10.0	ug/L		2/24/2017 09:54
4-Methyl-2-pentanone	< 10.0	ug/L		2/24/2017 09:54
Acetone	< 20.0	ug/L		2/24/2017 09:54
Benzene	< 2.00	ug/L		2/24/2017 09:54
Bromochloromethane	< 10.0	ug/L		2/24/2017 09:54
Bromodichloromethane	< 4.00	ug/L		2/24/2017 09:54
Bromoform	< 10.0	ug/L		2/24/2017 09:54
Bromomethane	< 4.00	ug/L		2/24/2017 09:54
Carbon disulfide	< 4.00	ug/L		2/24/2017 09:54
Carbon Tetrachloride	< 4.00	ug/L		2/24/2017 09:54
Chlorobenzene	< 4.00	ug/L		2/24/2017 09:54

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Report Prepared Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-6-PS15

Lab Sample ID: 170564-06

Date Sampled: 2/14/2017

Matrix: Groundwater

Date Received: 2/15/2017

Chloroethane	< 4.00	ug/L	2/24/2017 09:54
Chloroform	< 4.00	ug/L	2/24/2017 09:54
Chloromethane	< 4.00	ug/L	2/24/2017 09:54
cis-1,2-Dichloroethene	277	ug/L	2/24/2017 09:54
cis-1,3-Dichloropropene	< 4.00	ug/L	2/24/2017 09:54
Cyclohexane	< 20.0	ug/L	2/24/2017 09:54
Dibromochloromethane	< 4.00	ug/L	2/24/2017 09:54
Dichlorodifluoromethane	< 4.00	ug/L	2/24/2017 09:54
Ethylbenzene	< 4.00	ug/L	2/24/2017 09:54
Freon 113	< 4.00	ug/L	2/24/2017 09:54
Isopropylbenzene	< 4.00	ug/L	2/24/2017 09:54
m,p-Xylene	< 4.00	ug/L	2/24/2017 09:54
Methyl acetate	< 4.00	ug/L	2/24/2017 09:54
Methyl tert-butyl Ether	< 4.00	ug/L	2/24/2017 09:54
Methylcyclohexane	< 4.00	ug/L	2/24/2017 09:54
Methylene chloride	< 10.0	ug/L	2/24/2017 09:54
o-Xylene	< 4.00	ug/L	2/24/2017 09:54
Styrene	< 10.0	ug/L	2/24/2017 09:54
Tetrachloroethene	5.58	ug/L	2/24/2017 09:54
Toluene	< 4.00	ug/L	2/24/2017 09:54
trans-1,2-Dichloroethene	< 4.00	ug/L	2/24/2017 09:54
trans-1,3-Dichloropropene	< 4.00	ug/L	2/24/2017 09:54
Trichloroethene	22.2	ug/L	2/24/2017 09:54
Trichlorofluoromethane	< 4.00	ug/L	2/24/2017 09:54
Vinyl chloride	147	ug/L	2/24/2017 09:54

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Report Prepared Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-6-PS15

Lab Sample ID: 170564-06

Date Sampled: 2/14/2017

Matrix: Groundwater

Date Received: 2/15/2017

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	95.1	81.2 - 120		2/24/2017 09:54
4-Bromofluorobenzene	90.8	82.4 - 112		2/24/2017 09:54
Pentafluorobenzene	104	90.2 - 112		2/24/2017 09:54
Toluene-D8	93.7	89.9 - 109		2/24/2017 09:54

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x39464.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 Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-7-PS15

Lab Sample ID: 170564-07

Date Sampled: 2/14/2017

Matrix: Groundwater

Date Received: 2/15/2017

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2017 04:21
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2017 04:21
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2017 04:21
1,1-Dichloroethane	< 2.00	ug/L		2/24/2017 04:21
1,1-Dichloroethene	< 2.00	ug/L		2/24/2017 04:21
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2017 04:21
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2017 04:21
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2017 04:21
1,2-Dibromoethane	< 2.00	ug/L		2/24/2017 04:21
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2017 04:21
1,2-Dichloroethane	< 2.00	ug/L		2/24/2017 04:21
1,2-Dichloropropane	< 2.00	ug/L		2/24/2017 04:21
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2017 04:21
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2017 04:21
1,4-dioxane	< 20.0	ug/L		2/24/2017 04:21
2-Butanone	< 10.0	ug/L		2/24/2017 04:21
2-Hexanone	< 5.00	ug/L		2/24/2017 04:21
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2017 04:21
Acetone	< 10.0	ug/L		2/24/2017 04:21
Benzene	< 1.00	ug/L		2/24/2017 04:21
Bromochloromethane	< 5.00	ug/L		2/24/2017 04:21
Bromodichloromethane	< 2.00	ug/L		2/24/2017 04:21
Bromoform	< 5.00	ug/L		2/24/2017 04:21
Bromomethane	< 2.00	ug/L		2/24/2017 04:21
Carbon disulfide	< 2.00	ug/L		2/24/2017 04:21
Carbon Tetrachloride	< 2.00	ug/L		2/24/2017 04:21
Chlorobenzene	< 2.00	ug/L		2/24/2017 04:21

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Report Prepared Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-7-PS15

Lab Sample ID: 170564-07

Date Sampled: 2/14/2017

Matrix: Groundwater

Date Received: 2/15/2017

Chloroethane	< 2.00	ug/L		2/24/2017 04:21
Chloroform	< 2.00	ug/L		2/24/2017 04:21
Chloromethane	< 2.00	ug/L		2/24/2017 04:21
cis-1,2-Dichloroethene	< 2.00	ug/L		2/24/2017 04:21
cis-1,3-Dichloropropene	< 2.00	ug/L		2/24/2017 04:21
Cyclohexane	< 10.0	ug/L		2/24/2017 04:21
Dibromochloromethane	< 2.00	ug/L		2/24/2017 04:21
Dichlorodifluoromethane	< 2.00	ug/L		2/24/2017 04:21
Ethylbenzene	< 2.00	ug/L		2/24/2017 04:21
Freon 113	< 2.00	ug/L		2/24/2017 04:21
Isopropylbenzene	< 2.00	ug/L		2/24/2017 04:21
m,p-Xylene	< 2.00	ug/L		2/24/2017 04:21
Methyl acetate	< 2.00	ug/L		2/24/2017 04:21
Methyl tert-butyl Ether	1.12	ug/L	J	2/24/2017 04:21
Methylcyclohexane	< 2.00	ug/L		2/24/2017 04:21
Methylene chloride	< 5.00	ug/L		2/24/2017 04:21
o-Xylene	< 2.00	ug/L		2/24/2017 04:21
Styrene	< 5.00	ug/L		2/24/2017 04:21
Tetrachloroethene	< 2.00	ug/L		2/24/2017 04:21
Toluene	< 2.00	ug/L		2/24/2017 04:21
trans-1,2-Dichloroethene	< 2.00	ug/L		2/24/2017 04:21
trans-1,3-Dichloropropene	< 2.00	ug/L		2/24/2017 04:21
Trichloroethene	< 2.00	ug/L		2/24/2017 04:21
Trichlorofluoromethane	< 2.00	ug/L		2/24/2017 04:21
Vinyl chloride	< 2.00	ug/L		2/24/2017 04:21

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Report Prepared Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-7-PS15

Lab Sample ID: 170564-07

Date Sampled: 2/14/2017

Matrix: Groundwater

Date Received: 2/15/2017

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	104	81.2 - 120		2/24/2017	04:21
4-Bromofluorobenzene	86.6	82.4 - 112		2/24/2017	04:21
Pentafluorobenzene	100	90.2 - 112		2/24/2017	04:21
Toluene-D8	93.7	89.9 - 109		2/24/2017	04:21

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x39452.D

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Report Prepared Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-9-PS15

Lab Sample ID: 170564-08

Date Sampled: 2/14/2017

Matrix: Groundwater

Date Received: 2/15/2017

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2017 05:15
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2017 05:15
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2017 05:15
1,1-Dichloroethane	< 2.00	ug/L		2/24/2017 05:15
1,1-Dichloroethene	< 2.00	ug/L		2/24/2017 05:15
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2017 05:15
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2017 05:15
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2017 05:15
1,2-Dibromoethane	< 2.00	ug/L		2/24/2017 05:15
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2017 05:15
1,2-Dichloroethane	< 2.00	ug/L		2/24/2017 05:15
1,2-Dichloropropane	< 2.00	ug/L		2/24/2017 05:15
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2017 05:15
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2017 05:15
1,4-dioxane	< 20.0	ug/L		2/24/2017 05:15
2-Butanone	< 10.0	ug/L		2/24/2017 05:15
2-Hexanone	< 5.00	ug/L		2/24/2017 05:15
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2017 05:15
Acetone	< 10.0	ug/L		2/24/2017 05:15
Benzene	< 1.00	ug/L		2/24/2017 05:15
Bromochloromethane	< 5.00	ug/L		2/24/2017 05:15
Bromodichloromethane	< 2.00	ug/L		2/24/2017 05:15
Bromoform	< 5.00	ug/L		2/24/2017 05:15
Bromomethane	< 2.00	ug/L		2/24/2017 05:15
Carbon disulfide	< 2.00	ug/L		2/24/2017 05:15
Carbon Tetrachloride	< 2.00	ug/L		2/24/2017 05:15
Chlorobenzene	< 2.00	ug/L		2/24/2017 05:15

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Report Prepared Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-9-PS15

Lab Sample ID: 170564-08

Date Sampled: 2/14/2017

Matrix: Groundwater

Date Received: 2/15/2017

Chloroethane	< 2.00	ug/L	2/24/2017 05:15
Chloroform	< 2.00	ug/L	2/24/2017 05:15
Chloromethane	< 2.00	ug/L	2/24/2017 05:15
cis-1,2-Dichloroethene	< 2.00	ug/L	2/24/2017 05:15
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2017 05:15
Cyclohexane	< 10.0	ug/L	2/24/2017 05:15
Dibromochloromethane	< 2.00	ug/L	2/24/2017 05:15
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2017 05:15
Ethylbenzene	< 2.00	ug/L	2/24/2017 05:15
Freon 113	< 2.00	ug/L	2/24/2017 05:15
Isopropylbenzene	< 2.00	ug/L	2/24/2017 05:15
m,p-Xylene	< 2.00	ug/L	2/24/2017 05:15
Methyl acetate	< 2.00	ug/L	2/24/2017 05:15
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2017 05:15
Methylcyclohexane	< 2.00	ug/L	2/24/2017 05:15
Methylene chloride	< 5.00	ug/L	2/24/2017 05:15
o-Xylene	< 2.00	ug/L	2/24/2017 05:15
Styrene	< 5.00	ug/L	2/24/2017 05:15
Tetrachloroethene	5.06	ug/L	2/24/2017 05:15
Toluene	< 2.00	ug/L	2/24/2017 05:15
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2017 05:15
trans-1,3-Dichloropropene	< 2.00	ug/L	2/24/2017 05:15
Trichloroethene	< 2.00	ug/L	2/24/2017 05:15
Trichlorofluoromethane	< 2.00	ug/L	2/24/2017 05:15
Vinyl chloride	< 2.00	ug/L	2/24/2017 05:15

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Report Prepared Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-9-PS15

Lab Sample ID: 170564-08

Date Sampled: 2/14/2017

Matrix: Groundwater

Date Received: 2/15/2017

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	102	81.2 - 120		2/24/2017	05:15
4-Bromofluorobenzene	85.7	82.4 - 112		2/24/2017	05:15
Pentafluorobenzene	96.9	90.2 - 112		2/24/2017	05:15
Toluene-D8	92.7	89.9 - 109		2/24/2017	05:15

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x39453.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 Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-12-PS15

Lab Sample ID: 170564-09

Date Sampled: 2/14/2017

Matrix: Groundwater

Date Received: 2/15/2017

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2017 05:39
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2017 05:39
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2017 05:39
1,1-Dichloroethane	< 2.00	ug/L		2/24/2017 05:39
1,1-Dichloroethene	< 2.00	ug/L		2/24/2017 05:39
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2017 05:39
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2017 05:39
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2017 05:39
1,2-Dibromoethane	< 2.00	ug/L		2/24/2017 05:39
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2017 05:39
1,2-Dichloroethane	< 2.00	ug/L		2/24/2017 05:39
1,2-Dichloropropane	< 2.00	ug/L		2/24/2017 05:39
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2017 05:39
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2017 05:39
1,4-dioxane	< 20.0	ug/L		2/24/2017 05:39
2-Butanone	< 10.0	ug/L		2/24/2017 05:39
2-Hexanone	< 5.00	ug/L		2/24/2017 05:39
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2017 05:39
Acetone	< 10.0	ug/L		2/24/2017 05:39
Benzene	< 1.00	ug/L		2/24/2017 05:39
Bromochloromethane	< 5.00	ug/L		2/24/2017 05:39
Bromodichloromethane	< 2.00	ug/L		2/24/2017 05:39
Bromoform	< 5.00	ug/L		2/24/2017 05:39
Bromomethane	< 2.00	ug/L		2/24/2017 05:39
Carbon disulfide	< 2.00	ug/L		2/24/2017 05:39
Carbon Tetrachloride	< 2.00	ug/L		2/24/2017 05:39
Chlorobenzene	< 2.00	ug/L		2/24/2017 05:39

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Report Prepared Tuesday, February 28, 2017



Lab Project ID: 170564

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-RW-12-PS15

Lab Sample ID: 170564-09

Date Sampled: 2/14/2017

Matrix: Groundwater

Date Received: 2/15/2017

Chloroethane	< 2.00	ug/L	2/24/2017 05:39
Chloroform	< 2.00	ug/L	2/24/2017 05:39
Chloromethane	< 2.00	ug/L	2/24/2017 05:39
cis-1,2-Dichloroethene	< 2.00	ug/L	2/24/2017 05:39
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2017 05:39
Cyclohexane	< 10.0	ug/L	2/24/2017 05:39
Dibromochloromethane	< 2.00	ug/L	2/24/2017 05:39
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2017 05:39
Ethylbenzene	< 2.00	ug/L	2/24/2017 05:39
Freon 113	< 2.00	ug/L	2/24/2017 05:39
Isopropylbenzene	< 2.00	ug/L	2/24/2017 05:39
m,p-Xylene	< 2.00	ug/L	2/24/2017 05:39
Methyl acetate	< 2.00	ug/L	2/24/2017 05:39
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2017 05:39
Methylcyclohexane	< 2.00	ug/L	2/24/2017 05:39
Methylene chloride	< 5.00	ug/L	2/24/2017 05:39
o-Xylene	< 2.00	ug/L	2/24/2017 05:39
Styrene	< 5.00	ug/L	2/24/2017 05:39
Tetrachloroethene	< 2.00	ug/L	2/24/2017 05:39
Toluene	< 2.00	ug/L	2/24/2017 05:39
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2017 05:39
trans-1,3-Dichloropropene	< 2.00	ug/L	2/24/2017 05:39
Trichloroethene	1.29	ug/L	J 2/24/2017 05:39
Trichlorofluoromethane	< 2.00	ug/L	2/24/2017 05:39
Vinyl chloride	< 2.00	ug/L	2/24/2017 05:39

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 Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-RW-12-PS15

Lab Sample ID: 170564-09

Date Sampled: 2/14/2017

Matrix: Groundwater

Date Received: 2/15/2017

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	102	81.2 - 120		2/24/2017	05:39
4-Bromofluorobenzene	87.7	82.4 - 112		2/24/2017	05:39
Pentafluorobenzene	97.8	90.2 - 112		2/24/2017	05:39
Toluene-D8	92.4	89.9 - 109		2/24/2017	05:39

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x39454.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 Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B102-MW-PS15

Lab Sample ID: 170564-10

Date Sampled: 2/14/2017

Matrix: Groundwater

Date Received: 2/15/2017

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2017 06:03
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2017 06:03
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2017 06:03
1,1-Dichloroethane	< 2.00	ug/L		2/24/2017 06:03
1,1-Dichloroethene	< 2.00	ug/L		2/24/2017 06:03
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2017 06:03
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2017 06:03
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2017 06:03
1,2-Dibromoethane	< 2.00	ug/L		2/24/2017 06:03
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2017 06:03
1,2-Dichloroethane	< 2.00	ug/L		2/24/2017 06:03
1,2-Dichloropropane	< 2.00	ug/L		2/24/2017 06:03
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2017 06:03
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2017 06:03
1,4-dioxane	< 20.0	ug/L		2/24/2017 06:03
2-Butanone	< 10.0	ug/L		2/24/2017 06:03
2-Hexanone	< 5.00	ug/L		2/24/2017 06:03
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2017 06:03
Acetone	< 10.0	ug/L		2/24/2017 06:03
Benzene	< 1.00	ug/L		2/24/2017 06:03
Bromochloromethane	< 5.00	ug/L		2/24/2017 06:03
Bromodichloromethane	< 2.00	ug/L		2/24/2017 06:03
Bromoform	< 5.00	ug/L		2/24/2017 06:03
Bromomethane	< 2.00	ug/L		2/24/2017 06:03
Carbon disulfide	< 2.00	ug/L		2/24/2017 06:03
Carbon Tetrachloride	< 2.00	ug/L		2/24/2017 06:03
Chlorobenzene	< 2.00	ug/L		2/24/2017 06:03

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Report Prepared Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B102-MW-PS15

Lab Sample ID: 170564-10

Date Sampled: 2/14/2017

Matrix: Groundwater

Date Received: 2/15/2017

Chloroethane	< 2.00	ug/L	2/24/2017 06:03
Chloroform	< 2.00	ug/L	2/24/2017 06:03
Chloromethane	< 2.00	ug/L	2/24/2017 06:03
cis-1,2-Dichloroethene	< 2.00	ug/L	2/24/2017 06:03
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2017 06:03
Cyclohexane	< 10.0	ug/L	2/24/2017 06:03
Dibromochloromethane	< 2.00	ug/L	2/24/2017 06:03
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2017 06:03
Ethylbenzene	< 2.00	ug/L	2/24/2017 06:03
Freon 113	< 2.00	ug/L	2/24/2017 06:03
Isopropylbenzene	< 2.00	ug/L	2/24/2017 06:03
m,p-Xylene	< 2.00	ug/L	2/24/2017 06:03
Methyl acetate	< 2.00	ug/L	2/24/2017 06:03
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2017 06:03
Methylcyclohexane	< 2.00	ug/L	2/24/2017 06:03
Methylene chloride	< 5.00	ug/L	2/24/2017 06:03
o-Xylene	< 2.00	ug/L	2/24/2017 06:03
Styrene	< 5.00	ug/L	2/24/2017 06:03
Tetrachloroethene	< 2.00	ug/L	2/24/2017 06:03
Toluene	< 2.00	ug/L	2/24/2017 06:03
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2017 06:03
trans-1,3-Dichloropropene	< 2.00	ug/L	2/24/2017 06:03
Trichloroethene	< 2.00	ug/L	2/24/2017 06:03
Trichlorofluoromethane	< 2.00	ug/L	2/24/2017 06:03
Vinyl chloride	1.12	ug/L	J 2/24/2017 06:03

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Report Prepared Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B102-MW-PS15

Lab Sample ID: 170564-10

Date Sampled: 2/14/2017

Matrix: Groundwater

Date Received: 2/15/2017

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	102	81.2 - 120		2/24/2017 06:03
4-Bromofluorobenzene	87.2	82.4 - 112		2/24/2017 06:03
Pentafluorobenzene	98.7	90.2 - 112		2/24/2017 06:03
Toluene-D8	94.3	89.9 - 109		2/24/2017 06:03

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x39455.D

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Report Prepared Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B106-MW-PS15

Lab Sample ID: 170564-11

Date Sampled: 2/13/2017

Matrix: Groundwater

Date Received: 2/15/2017

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2017 06:26
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2017 06:26
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2017 06:26
1,1-Dichloroethane	< 2.00	ug/L		2/24/2017 06:26
1,1-Dichloroethene	< 2.00	ug/L		2/24/2017 06:26
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2017 06:26
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2017 06:26
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2017 06:26
1,2-Dibromoethane	< 2.00	ug/L		2/24/2017 06:26
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2017 06:26
1,2-Dichloroethane	< 2.00	ug/L		2/24/2017 06:26
1,2-Dichloropropane	< 2.00	ug/L		2/24/2017 06:26
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2017 06:26
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2017 06:26
1,4-dioxane	< 20.0	ug/L		2/24/2017 06:26
2-Butanone	< 10.0	ug/L		2/24/2017 06:26
2-Hexanone	< 5.00	ug/L		2/24/2017 06:26
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2017 06:26
Acetone	< 10.0	ug/L		2/24/2017 06:26
Benzene	< 1.00	ug/L		2/24/2017 06:26
Bromochloromethane	< 5.00	ug/L		2/24/2017 06:26
Bromodichloromethane	< 2.00	ug/L		2/24/2017 06:26
Bromoform	< 5.00	ug/L		2/24/2017 06:26
Bromomethane	< 2.00	ug/L		2/24/2017 06:26
Carbon disulfide	< 2.00	ug/L		2/24/2017 06:26
Carbon Tetrachloride	< 2.00	ug/L		2/24/2017 06:26
Chlorobenzene	< 2.00	ug/L		2/24/2017 06:26

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Report Prepared Tuesday, February 28, 2017



Lab Project ID: 170564

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-B106-MW-PS15

Lab Sample ID: 170564-11

Date Sampled: 2/13/2017

Matrix: Groundwater

Date Received: 2/15/2017

Chloroethane	< 2.00	ug/L	2/24/2017 06:26
Chloroform	< 2.00	ug/L	2/24/2017 06:26
Chloromethane	< 2.00	ug/L	2/24/2017 06:26
cis-1,2-Dichloroethene	< 2.00	ug/L	2/24/2017 06:26
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2017 06:26
Cyclohexane	< 10.0	ug/L	2/24/2017 06:26
Dibromochloromethane	< 2.00	ug/L	2/24/2017 06:26
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2017 06:26
Ethylbenzene	< 2.00	ug/L	2/24/2017 06:26
Freon 113	< 2.00	ug/L	2/24/2017 06:26
Isopropylbenzene	< 2.00	ug/L	2/24/2017 06:26
m,p-Xylene	< 2.00	ug/L	2/24/2017 06:26
Methyl acetate	< 2.00	ug/L	2/24/2017 06:26
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2017 06:26
Methylcyclohexane	< 2.00	ug/L	2/24/2017 06:26
Methylene chloride	< 5.00	ug/L	2/24/2017 06:26
o-Xylene	< 2.00	ug/L	2/24/2017 06:26
Styrene	< 5.00	ug/L	2/24/2017 06:26
Tetrachloroethene	< 2.00	ug/L	2/24/2017 06:26
Toluene	< 2.00	ug/L	2/24/2017 06:26
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2017 06:26
trans-1,3-Dichloropropene	< 2.00	ug/L	2/24/2017 06:26
Trichloroethene	< 2.00	ug/L	2/24/2017 06:26
Trichlorofluoromethane	< 2.00	ug/L	2/24/2017 06:26
Vinyl chloride	< 2.00	ug/L	2/24/2017 06:26

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Report Prepared Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B106-MW-PS15

Lab Sample ID: 170564-11

Date Sampled: 2/13/2017

Matrix: Groundwater

Date Received: 2/15/2017

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	101	81.2 - 120		2/24/2017	06:26
4-Bromofluorobenzene	86.5	82.4 - 112		2/24/2017	06:26
Pentafluorobenzene	98.4	90.2 - 112		2/24/2017	06:26
Toluene-D8	92.6	89.9 - 109		2/24/2017	06:26

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x39456.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 Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B108-MW-PS15

Lab Sample ID: 170564-12

Date Sampled: 2/13/2017

Matrix: Groundwater

Date Received: 2/15/2017

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2017 06:50
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2017 06:50
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2017 06:50
1,1-Dichloroethane	< 2.00	ug/L		2/24/2017 06:50
1,1-Dichloroethene	< 2.00	ug/L		2/24/2017 06:50
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2017 06:50
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2017 06:50
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2017 06:50
1,2-Dibromoethane	< 2.00	ug/L		2/24/2017 06:50
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2017 06:50
1,2-Dichloroethane	< 2.00	ug/L		2/24/2017 06:50
1,2-Dichloropropane	< 2.00	ug/L		2/24/2017 06:50
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2017 06:50
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2017 06:50
1,4-dioxane	< 20.0	ug/L		2/24/2017 06:50
2-Butanone	< 10.0	ug/L		2/24/2017 06:50
2-Hexanone	< 5.00	ug/L		2/24/2017 06:50
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2017 06:50
Acetone	< 10.0	ug/L		2/24/2017 06:50
Benzene	< 1.00	ug/L		2/24/2017 06:50
Bromochloromethane	< 5.00	ug/L		2/24/2017 06:50
Bromodichloromethane	< 2.00	ug/L		2/24/2017 06:50
Bromoform	< 5.00	ug/L		2/24/2017 06:50
Bromomethane	< 2.00	ug/L		2/24/2017 06:50
Carbon disulfide	< 2.00	ug/L		2/24/2017 06:50
Carbon Tetrachloride	< 2.00	ug/L		2/24/2017 06:50
Chlorobenzene	< 2.00	ug/L		2/24/2017 06:50

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Report Prepared Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B108-MW-PS15

Lab Sample ID: 170564-12

Date Sampled: 2/13/2017

Matrix: Groundwater

Date Received: 2/15/2017

Chloroethane	< 2.00	ug/L	2/24/2017 06:50
Chloroform	< 2.00	ug/L	2/24/2017 06:50
Chloromethane	< 2.00	ug/L	2/24/2017 06:50
cis-1,2-Dichloroethene	7.20	ug/L	2/24/2017 06:50
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2017 06:50
Cyclohexane	< 10.0	ug/L	2/24/2017 06:50
Dibromochloromethane	< 2.00	ug/L	2/24/2017 06:50
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2017 06:50
Ethylbenzene	< 2.00	ug/L	2/24/2017 06:50
Freon 113	< 2.00	ug/L	2/24/2017 06:50
Isopropylbenzene	< 2.00	ug/L	2/24/2017 06:50
m,p-Xylene	< 2.00	ug/L	2/24/2017 06:50
Methyl acetate	< 2.00	ug/L	2/24/2017 06:50
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2017 06:50
Methylcyclohexane	< 2.00	ug/L	2/24/2017 06:50
Methylene chloride	< 5.00	ug/L	2/24/2017 06:50
o-Xylene	< 2.00	ug/L	2/24/2017 06:50
Styrene	< 5.00	ug/L	2/24/2017 06:50
Tetrachloroethene	1.54	ug/L	J 2/24/2017 06:50
Toluene	< 2.00	ug/L	2/24/2017 06:50
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2017 06:50
trans-1,3-Dichloropropene	< 2.00	ug/L	2/24/2017 06:50
Trichloroethene	3.26	ug/L	2/24/2017 06:50
Trichlorofluoromethane	< 2.00	ug/L	2/24/2017 06:50
Vinyl chloride	3.51	ug/L	2/24/2017 06:50

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Report Prepared Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-B108-MW-PS15

Lab Sample ID: 170564-12

Date Sampled: 2/13/2017

Matrix: Groundwater

Date Received: 2/15/2017

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	100	81.2 - 120		2/24/2017	06:50
4-Bromofluorobenzene	86.8	82.4 - 112		2/24/2017	06:50
Pentafluorobenzene	98.6	90.2 - 112		2/24/2017	06:50
Toluene-D8	93.3	89.9 - 109		2/24/2017	06:50

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x39457.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 Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-FD-PS15

Lab Sample ID: 170564-13

Date Sampled: 2/13/2017

Matrix: Groundwater

Date Received: 2/15/2017

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2017 07:14
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2017 07:14
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2017 07:14
1,1-Dichloroethane	< 2.00	ug/L		2/24/2017 07:14
1,1-Dichloroethene	< 2.00	ug/L		2/24/2017 07:14
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2017 07:14
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2017 07:14
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2017 07:14
1,2-Dibromoethane	< 2.00	ug/L		2/24/2017 07:14
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2017 07:14
1,2-Dichloroethane	< 2.00	ug/L		2/24/2017 07:14
1,2-Dichloropropane	< 2.00	ug/L		2/24/2017 07:14
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2017 07:14
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2017 07:14
1,4-dioxane	< 20.0	ug/L		2/24/2017 07:14
2-Butanone	< 10.0	ug/L		2/24/2017 07:14
2-Hexanone	< 5.00	ug/L		2/24/2017 07:14
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2017 07:14
Acetone	< 10.0	ug/L		2/24/2017 07:14
Benzene	< 1.00	ug/L		2/24/2017 07:14
Bromochloromethane	< 5.00	ug/L		2/24/2017 07:14
Bromodichloromethane	< 2.00	ug/L		2/24/2017 07:14
Bromoform	< 5.00	ug/L		2/24/2017 07:14
Bromomethane	< 2.00	ug/L		2/24/2017 07:14
Carbon disulfide	< 2.00	ug/L		2/24/2017 07:14
Carbon Tetrachloride	< 2.00	ug/L		2/24/2017 07:14
Chlorobenzene	< 2.00	ug/L		2/24/2017 07:14

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Report Prepared Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-FD-PS15

Lab Sample ID: 170564-13

Date Sampled: 2/13/2017

Matrix: Groundwater

Date Received: 2/15/2017

Chloroethane	< 2.00	ug/L		2/24/2017 07:14
Chloroform	< 2.00	ug/L		2/24/2017 07:14
Chloromethane	< 2.00	ug/L		2/24/2017 07:14
cis-1,2-Dichloroethene	< 2.00	ug/L		2/24/2017 07:14
cis-1,3-Dichloropropene	< 2.00	ug/L		2/24/2017 07:14
Cyclohexane	< 10.0	ug/L		2/24/2017 07:14
Dibromochloromethane	< 2.00	ug/L		2/24/2017 07:14
Dichlorodifluoromethane	< 2.00	ug/L		2/24/2017 07:14
Ethylbenzene	< 2.00	ug/L		2/24/2017 07:14
Freon 113	< 2.00	ug/L		2/24/2017 07:14
Isopropylbenzene	< 2.00	ug/L		2/24/2017 07:14
m,p-Xylene	< 2.00	ug/L		2/24/2017 07:14
Methyl acetate	< 2.00	ug/L		2/24/2017 07:14
Methyl tert-butyl Ether	1.23	ug/L	J	2/24/2017 07:14
Methylcyclohexane	< 2.00	ug/L		2/24/2017 07:14
Methylene chloride	< 5.00	ug/L		2/24/2017 07:14
o-Xylene	< 2.00	ug/L		2/24/2017 07:14
Styrene	< 5.00	ug/L		2/24/2017 07:14
Tetrachloroethene	< 2.00	ug/L		2/24/2017 07:14
Toluene	< 2.00	ug/L		2/24/2017 07:14
trans-1,2-Dichloroethene	< 2.00	ug/L		2/24/2017 07:14
trans-1,3-Dichloropropene	< 2.00	ug/L		2/24/2017 07:14
Trichloroethene	< 2.00	ug/L		2/24/2017 07:14
Trichlorofluoromethane	< 2.00	ug/L		2/24/2017 07:14
Vinyl chloride	< 2.00	ug/L		2/24/2017 07:14

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 Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-FD-PS15

Lab Sample ID: 170564-13

Date Sampled: 2/13/2017

Matrix: Groundwater

Date Received: 2/15/2017

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>	
1,2-Dichloroethane-d4	102	81.2 - 120		2/24/2017	07:14
4-Bromofluorobenzene	87.7	82.4 - 112		2/24/2017	07:14
Pentafluorobenzene	97.7	90.2 - 112		2/24/2017	07:14
Toluene-D8	92.9	89.9 - 109		2/24/2017	07:14

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x39458.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 Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: Trip Blank

Lab Sample ID: 170564-14

Matrix: Water

Date Sampled: 2/13/2017

Date Received: 2/15/2017

Volatile Organics

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/24/2017 01:55
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/24/2017 01:55
1,1,2-Trichloroethane	< 2.00	ug/L		2/24/2017 01:55
1,1-Dichloroethane	< 2.00	ug/L		2/24/2017 01:55
1,1-Dichloroethene	< 2.00	ug/L		2/24/2017 01:55
1,2,3-Trichlorobenzene	< 5.00	ug/L		2/24/2017 01:55
1,2,4-Trichlorobenzene	< 5.00	ug/L		2/24/2017 01:55
1,2-Dibromo-3-Chloropropane	< 10.0	ug/L		2/24/2017 01:55
1,2-Dibromoethane	< 2.00	ug/L		2/24/2017 01:55
1,2-Dichlorobenzene	< 2.00	ug/L		2/24/2017 01:55
1,2-Dichloroethane	< 2.00	ug/L		2/24/2017 01:55
1,2-Dichloropropane	< 2.00	ug/L		2/24/2017 01:55
1,3-Dichlorobenzene	< 2.00	ug/L		2/24/2017 01:55
1,4-Dichlorobenzene	< 2.00	ug/L		2/24/2017 01:55
1,4-dioxane	< 20.0	ug/L		2/24/2017 01:55
2-Butanone	< 10.0	ug/L		2/24/2017 01:55
2-Hexanone	< 5.00	ug/L		2/24/2017 01:55
4-Methyl-2-pentanone	< 5.00	ug/L		2/24/2017 01:55
Acetone	< 10.0	ug/L		2/24/2017 01:55
Benzene	< 1.00	ug/L		2/24/2017 01:55
Bromochloromethane	< 5.00	ug/L		2/24/2017 01:55
Bromodichloromethane	< 2.00	ug/L		2/24/2017 01:55
Bromoform	< 5.00	ug/L		2/24/2017 01:55
Bromomethane	< 2.00	ug/L		2/24/2017 01:55
Carbon disulfide	< 2.00	ug/L		2/24/2017 01:55
Carbon Tetrachloride	< 2.00	ug/L		2/24/2017 01:55
Chlorobenzene	< 2.00	ug/L		2/24/2017 01:55

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 Tuesday, February 28, 2017



Lab Project ID: 170564

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: Trip Blank

Lab Sample ID: 170564-14

Date Sampled: 2/13/2017

Matrix: Water

Date Received: 2/15/2017

Chloroethane	< 2.00	ug/L	2/24/2017 01:55
Chloroform	< 2.00	ug/L	2/24/2017 01:55
Chloromethane	< 2.00	ug/L	2/24/2017 01:55
cis-1,2-Dichloroethene	< 2.00	ug/L	2/24/2017 01:55
cis-1,3-Dichloropropene	< 2.00	ug/L	2/24/2017 01:55
Cyclohexane	< 10.0	ug/L	2/24/2017 01:55
Dibromochloromethane	< 2.00	ug/L	2/24/2017 01:55
Dichlorodifluoromethane	< 2.00	ug/L	2/24/2017 01:55
Ethylbenzene	< 2.00	ug/L	2/24/2017 01:55
Freon 113	< 2.00	ug/L	2/24/2017 01:55
Isopropylbenzene	< 2.00	ug/L	2/24/2017 01:55
m,p-Xylene	< 2.00	ug/L	2/24/2017 01:55
Methyl acetate	< 2.00	ug/L	2/24/2017 01:55
Methyl tert-butyl Ether	< 2.00	ug/L	2/24/2017 01:55
Methylcyclohexane	< 2.00	ug/L	2/24/2017 01:55
Methylene chloride	< 5.00	ug/L	2/24/2017 01:55
o-Xylene	< 2.00	ug/L	2/24/2017 01:55
Styrene	< 5.00	ug/L	2/24/2017 01:55
Tetrachloroethene	< 2.00	ug/L	2/24/2017 01:55
Toluene	< 2.00	ug/L	2/24/2017 01:55
trans-1,2-Dichloroethene	< 2.00	ug/L	2/24/2017 01:55
trans-1,3-Dichloropropene	< 2.00	ug/L	2/24/2017 01:55
Trichloroethene	< 2.00	ug/L	2/24/2017 01:55
Trichlorofluoromethane	< 2.00	ug/L	2/24/2017 01:55
Vinyl chloride	< 2.00	ug/L	2/24/2017 01:55

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 Tuesday, February 28, 2017



Lab Project ID: 170564

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: Trip Blank

Lab Sample ID: 170564-14

Date Sampled: 2/13/2017

Matrix: Water

Date Received: 2/15/2017

<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Limits</u>	<u>Outliers</u>	<u>Date Analyzed</u>	
1,2-Dichloroethane-d4	102	81.2 - 120		2/24/2017	01:55
4-Bromofluorobenzene	90.6	82.4 - 112		2/24/2017	01:55
Pentafluorobenzene	102	90.2 - 112		2/24/2017	01:55
Toluene-D8	95.2	89.9 - 109		2/24/2017	01:55

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x39446.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 Tuesday, February 28, 2017



Analytical Report Appendix

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

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

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.

"J" = Result estimated between the quantitation limit and half the quantitation limit.

"L" = Laboratory Control Sample recovery outside accepted QC limits.

"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.

"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*

"(1)" = Indicates data from primary column used for QC calculation.

"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.

"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS

LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term, or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation.

LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises. Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility.

LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

CHAIN OF CUSTODY

PROJECT REFERENCE

Carriage Factory

REQUESTED ANALYSIS

Turnaround Time

Availability conti

Report Supplements

Total Cost:

Sampled By	Date/Time
Benjamin Hunt	2/14/1800

Stripped By	Date/Time
Bethun Hunt	2/14 1800
Relinquished By	Date/Time
KE-CR	2/14/17 1803
Received By	Date/Time
AL	2/15/17 14:41
Received @ Lab By	Date/Time

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse)

See additional page for sample conditions



3 of 3

Chain of Custody Supplement

Client: Stantec

Completed by: Glenn Pezzullo

Lab Project ID: 170564

Date: 2/15/17

Sample Condition Requirements

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

NELAC compliance with the sample condition requirements upon receipt			
Condition	Yes	No	N/A
Container Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			
Transferred to method-compliant container	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Headspace (<1 mL)	<input checked="" type="checkbox"/> VOA	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments			
Preservation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			
Chlorine Absent (<0.10 ppm per test strip)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments			
Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			
Temperature	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments	<u>6°C iced 2/14/17 18:06</u>		
Sufficient Sample Quantity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			



ANALYTICAL REPORT

Lab Number:	L1704820
Client:	Paradigm Environmental Services 179 Lake Avenue Rochester, NY 14608
ATTN:	Jane Daloia
Phone:	(585) 647-2530
Project Name:	170564
Project Number:	170564
Report Date:	02/20/17

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), NJ NELAP (MA935), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NH (2003), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-14-00197).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com



Project Name: 170564
Project Number: 170564

Lab Number: L1704820
Report Date: 02/20/17

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1704820-01	170564-01 LI-RW-1-PS15	WATER	Not Specified	02/13/17 14:53	02/15/17
L1704820-02	170564-02 LI-RW-2-PS15	WATER	Not Specified	02/13/17 11:21	02/15/17
L1704820-03	170564-03 LI-RW-3-PS15	WATER	Not Specified	02/13/17 12:18	02/15/17
L1704820-04	170564-04 LI-RW-4-PS15	WATER	Not Specified	02/13/17 16:02	02/15/17
L1704820-05	170564-05 LI-RW-5-PS15	WATER	Not Specified	02/14/17 13:39	02/15/17
L1704820-06	170564-06 LI-RW-6-PS15	WATER	Not Specified	02/14/17 10:08	02/15/17
L1704820-07	170564-07 LI-RW-7-PS15	WATER	Not Specified	02/14/17 11:00	02/15/17
L1704820-08	170564-08 LI-RW-9-PS15	WATER	Not Specified	02/14/17 11:48	02/15/17
L1704820-09	170564-09 LI-RW-12-PS15	WATER	Not Specified	02/14/17 09:21	02/15/17
L1704820-10	170564-10 LI-B102-MW-PS15	WATER	Not Specified	02/14/17 14:38	02/15/17
L1704820-11	170564-11	WATER	Not Specified	02/13/17 14:00	02/15/17
L1704820-12	170564-12	WATER	Not Specified	02/13/17 13:10	02/15/17
L1704820-13	170564-13	WATER	Not Specified	02/13/17 12:23	02/15/17

Project Name: 170564
Project Number: 170564

Lab Number: L1704820
Report Date: 02/20/17

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: 170564
Project Number: 170564

Lab Number: L1704820
Report Date: 02/20/17


Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:

 Michelle M. Morris

Title: Technical Director/Representative

Date: 02/20/17

INORGANICS & MISCELLANEOUS

Project Name: 170564

Project Number: 170564

Lab Number: L1704820

Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704820-01
Client ID: 170564-01 LI-RW-1-PS15
Sample Location: Not Specified
Matrix: Water

Date Collected: 02/13/17 14:53
Date Received: 02/15/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	2.24		mg/l	1.00	0.228	2	-	02/16/17 07:17	121,5310C	DW



Project Name: 170564

Project Number: 170564

Lab Number: L1704820

Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704820-02
Client ID: 170564-02 LI-RW-2-PS15
Sample Location: Not Specified
Matrix: Water

Date Collected: 02/13/17 11:21
Date Received: 02/15/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	1.90		mg/l	1.00	0.228	2	-	02/16/17 07:17	121,5310C	DW



Project Name: 170564

Project Number: 170564

Lab Number: L1704820

Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704820-03
Client ID: 170564-03 LI-RW-3-PS15
Sample Location: Not Specified
Matrix: Water

Date Collected: 02/13/17 12:18
Date Received: 02/15/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	2.82		mg/l	1.00	0.228	2	-	02/16/17 07:17	121,5310C	DW



Project Name: 170564

Project Number: 170564

Lab Number: L1704820

Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704820-04
Client ID: 170564-04 LI-RW-4-PS15
Sample Location: Not Specified
Matrix: Water

Date Collected: 02/13/17 16:02
Date Received: 02/15/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	10.7		mg/l	1.00	0.228	2	-	02/16/17 07:17	121,5310C	DW



Project Name: 170564

Project Number: 170564

Lab Number: L1704820

Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704820-05
Client ID: 170564-05 LI-RW-5-PS15
Sample Location: Not Specified
Matrix: Water

Date Collected: 02/14/17 13:39
Date Received: 02/15/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	1.78		mg/l	1.00	0.228	2	-	02/16/17 07:17	121,5310C	DW



Project Name: 170564

Project Number: 170564

Lab Number: L1704820

Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704820-06
Client ID: 170564-06 LI-RW-6-PS15
Sample Location: Not Specified
Matrix: Water

Date Collected: 02/14/17 10:08
Date Received: 02/15/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	2.09		mg/l	1.00	0.228	2	-	02/16/17 07:17	121,5310C	DW



Project Name: 170564

Project Number: 170564

Lab Number: L1704820

Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704820-07
Client ID: 170564-07 LI-RW-7-PS15
Sample Location: Not Specified
Matrix: Water

Date Collected: 02/14/17 11:00
Date Received: 02/15/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	1.53		mg/l	1.00	0.228	2	-	02/16/17 07:17	121,5310C	DW



Project Name: 170564

Lab Number: L1704820

Project Number: 170564

Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704820-08
 Client ID: 170564-08 LI-RW-9-PS15
 Sample Location: Not Specified
 Matrix: Water

Date Collected: 02/14/17 11:48
 Date Received: 02/15/17
 Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	1.98		mg/l	1.00	0.228	2	-	02/16/17 07:17	121,5310C	DW



Project Name: 170564

Project Number: 170564

Lab Number: L1704820

Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704820-09
Client ID: 170564-09 LI-RW-12-PS15
Sample Location: Not Specified
Matrix: Water

Date Collected: 02/14/17 09:21
Date Received: 02/15/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	1.46		mg/l	1.00	0.228	2	-	02/16/17 07:17	121,5310C	DW



Project Name: 170564

Project Number: 170564

Lab Number: L1704820

Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704820-10
Client ID: 170564-10 LI-B102-MW-PS15
Sample Location: Not Specified
Matrix: Water

Date Collected: 02/14/17 14:38
Date Received: 02/15/17
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	1.78		mg/l	1.00	0.228	2	-	02/16/17 07:17	121,5310C	DW



Project Name: 170564

Lab Number: L1704820

Project Number: 170564

Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704820-11

Date Collected: 02/13/17 14:00

Client ID: 170564-11

Date Received: 02/15/17

Sample Location: Not Specified

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	1.72		mg/l	1.00	0.228	2	-	02/16/17 07:17	121,5310C	DW



Project Name: 170564

Lab Number: L1704820

Project Number: 170564

Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704820-12

Date Collected: 02/13/17 13:10

Client ID: 170564-12

Date Received: 02/15/17

Sample Location: Not Specified

Field Prep: Not Specified

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	1.97		mg/l	1.00	0.228	2	-	02/16/17 07:17	121,5310C	DW



Project Name: 170564

Project Number: 170564

Lab Number: L1704820

Report Date: 02/20/17

SAMPLE RESULTS

Lab ID: L1704820-13

Client ID: 170564-13

Sample Location: Not Specified

Matrix: Water

Date Collected: 02/13/17 12:23

Date Received: 02/15/17

Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Total Organic Carbon	2.58		mg/l	1.00	0.228	2	-	02/16/17 07:17	121,5310C	DW



Project Name: 170564

Lab Number: L1704820

Project Number: 170564

Report Date: 02/20/17

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-13 Batch: WG978302-1										
Total Organic Carbon	ND		mg/l	0.500	0.114	1	-	02/16/17 07:17	121,5310C	DW



Lab Control Sample Analysis
Batch Quality Control**Project Name:** 170564**Project Number:** 170564**Lab Number:** L1704820**Report Date:** 02/20/17

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13 Batch: WG978302-2								
Total Organic Carbon	92		-		90-110	-		

Matrix Spike Analysis Batch Quality Control

Project Name: 170564

Lab Number: L1704820

Project Number: 170564

Report Date: 02/20/17

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG978302-4 QC Sample: L1704820-02 Client ID: 170564-02 LI-RW-2-PS15												
Total Organic Carbon	1.90	8	9.25	92		-	-		80-120	-		20

Lab Duplicate Analysis
Batch Quality Control

Project Name: 170564

Project Number: 170564

Lab Number: L1704820

Report Date: 02/20/17

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-13 QC Batch ID: WG978302-3 QC Sample: L1704820-02 Client ID: 170564-02 LI-RW-2-PS15						
Total Organic Carbon	1.90	1.92	mg/l	1		20

Project Name: 170564

Lab Number: L1704820

Project Number: 170564

Report Date: 02/20/17

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information Custody Seal**Cooler**

A Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1704820-01A	Vial H2SO4 preserved	A	N/A	2.1	Y	Absent	TOC-5310(28)
L1704820-01B	Vial H2SO4 preserved	A	N/A	2.1	Y	Absent	TOC-5310(28)
L1704820-02A	Vial H2SO4 preserved	A	N/A	2.1	Y	Absent	TOC-5310(28)
L1704820-02B	Vial H2SO4 preserved	A	N/A	2.1	Y	Absent	TOC-5310(28)
L1704820-02C	Vial H2SO4 preserved	A	N/A	2.1	Y	Absent	TOC-5310(28)
L1704820-02D	Vial H2SO4 preserved	A	N/A	2.1	Y	Absent	TOC-5310(28)
L1704820-02E	Vial H2SO4 preserved	A	N/A	2.1	Y	Absent	TOC-5310(28)
L1704820-02F	Vial H2SO4 preserved	A	N/A	2.1	Y	Absent	TOC-5310(28)
L1704820-03A	Vial H2SO4 preserved	A	N/A	2.1	Y	Absent	TOC-5310(28)
L1704820-03B	Vial H2SO4 preserved	A	N/A	2.1	Y	Absent	TOC-5310(28)
L1704820-04A	Vial H2SO4 preserved	A	N/A	2.1	Y	Absent	TOC-5310(28)
L1704820-04B	Vial H2SO4 preserved	A	N/A	2.1	Y	Absent	TOC-5310(28)
L1704820-05A	Vial H2SO4 preserved	A	N/A	2.1	Y	Absent	TOC-5310(28)
L1704820-05B	Vial H2SO4 preserved	A	N/A	2.1	Y	Absent	TOC-5310(28)
L1704820-06A	Vial H2SO4 preserved	A	N/A	2.1	Y	Absent	TOC-5310(28)
L1704820-06B	Vial H2SO4 preserved	A	N/A	2.1	Y	Absent	TOC-5310(28)
L1704820-07A	Vial H2SO4 preserved	A	N/A	2.1	Y	Absent	TOC-5310(28)
L1704820-07B	Vial H2SO4 preserved	A	N/A	2.1	Y	Absent	TOC-5310(28)
L1704820-08A	Vial H2SO4 preserved	A	N/A	2.1	Y	Absent	TOC-5310(28)
L1704820-08B	Vial H2SO4 preserved	A	N/A	2.1	Y	Absent	TOC-5310(28)
L1704820-09A	Vial H2SO4 preserved	A	N/A	2.1	Y	Absent	TOC-5310(28)
L1704820-10A	Vial H2SO4 preserved	A	N/A	2.1	Y	Absent	TOC-5310(28)
L1704820-10B	Vial H2SO4 preserved	A	N/A	2.1	Y	Absent	TOC-5310(28)
L1704820-11A	Vial H2SO4 preserved	A	N/A	2.1	Y	Absent	TOC-5310(28)
L1704820-11B	Vial H2SO4 preserved	A	N/A	2.1	Y	Absent	TOC-5310(28)
L1704820-12A	Vial H2SO4 preserved	A	N/A	2.1	Y	Absent	TOC-5310(28)
L1704820-12B	Vial H2SO4 preserved	A	N/A	2.1	Y	Absent	TOC-5310(28)
L1704820-13A	Vial H2SO4 preserved	A	N/A	2.1	Y	Absent	TOC-5310(28)
L1704820-13B	Vial H2SO4 preserved	A	N/A	2.1	Y	Absent	TOC-5310(28)

*Values in parentheses indicate holding time in days



Project Name: 170564

Lab Number: L1704820

Project Number: 170564

Report Date: 02/20/17

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: DU Report with 'J' Qualifiers



Project Name: 170564**Lab Number:** L1704820**Project Number:** 170564**Report Date:** 02/20/17**Data Qualifiers**

reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers



Project Name: 170564
Project Number: 170564

Lab Number: L1704820
Report Date: 02/20/17

REFERENCES

- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Alpha Analytical, Inc.

ID No.:17873

Facility: **Company-wide**

Revision 10

Department: **Quality Assurance**

Published Date: 1/16/2017 11:00:05 AM

Title: **Certificate/Approval Program Summary**

Page 1 of 1

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility**EPA 624:** m/p-xylene, o-xylene**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**EPA 300:** DW: Bromide**EPA 6860:** NPW and SCM: Perchlorate**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation**EPA 9012B:** NPW: Total Cyanide**EPA 9050A:** NPW: Specific Conductance**SM3500:** NPW: Ferrous Iron**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO₂, NO₃.**SM5310C:** DW: Dissolved Organic Carbon**Mansfield Facility****SM 2540D:** TSS**EPA 3005A** NPW**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:**Drinking Water****EPA 300.0:** Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.****EPA 624:** Volatile Halocarbons & Aromatics,**EPA 608:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E.****Mansfield Facility:****Drinking Water****EPA 200.7:** Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1 Hg.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.**EPA 245.1 Hg.****SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

CHAIN OF CUSTODY

10f2

11148



REPORT TO:

INVOICE TO:

C1704820

COMPANY: Paradigm Environmental	COMPANY: Same	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS: 179 Lake Avenue	ADDRESS:		
CITY: Rochester STATE: NY ZIP: 14608	CITY: STATE: ZIP:	TURNAROUND TIME: (WORKING DAYS)	
PHONE: FAX:	PHONE: FAX:		
ATTN: Reporting	ATTN: Accounts Payable	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> OTHER	
COMMENTS: Please email results to reporting@paradigmenv.com		Date Due: 2/23/17 For data	

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	CONTAINER NUMBER	TOC	REMARKS	PARADIGM LAB SAMPLE NUMBER
1 2/13/17	14:53			170564 - 01	Ground Water	2	x	Report J Flags. SDG closed. ASP Cat B Package Due 3/9/17 SW-846 HT's.	
2	11:01			- 02		63		LI-RW-1-PS15	
3	12:18			- 03		2		LI-RW-2-PS15	
4	16:02			- 04		2		LI-RW-3-PS15	
5 2/14/17	13:39			- 05		2		LI-RW-4-PS15	
6	10:08			- 06		2		LI-RW-5-PS15	
7	11:00			- 07		2		LI-RW-6-PS15	
8	11:48			- 08		2		LI-RW-7-PS15	
9	09:21			- 09		1		LI-RW-8-PS15	
10	14:38			- 10		2		LI-RW-9-PS15	
LAB USE ONLY BELOW THIS LINE									LI-B102-MW-PS15

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

Receipt Parameter	NELAC Compliance
Container Type:	Y <input type="checkbox"/> N <input type="checkbox"/>
Comments:	
Preservation:	Y <input type="checkbox"/> N <input type="checkbox"/>
Comments:	
Holding Time:	Y <input type="checkbox"/> N <input type="checkbox"/>
Comments:	
Temperature:	Y <input type="checkbox"/> N <input type="checkbox"/>
Comments:	

Client

Sampled By	Date/Time
<i>2P</i>	2/15/17 16:00
Relinquished By	Date/Time
<i>Sm AL AAC</i>	2/15/17 16:45
Received By	Date/Time
<i>Sm AL AAC</i>	2/15/17 17:25
Received By	Date/Time
<i>RL Phly</i>	2/16/17 00:48
Received @ Lab By	Date/Time

Total Cost:

P.I.F.

202

11148

CHAIN OF CUSTODY

REPORT TO:

INVOICE TO:

COMPANY: Paradigm Environmental	COMPANY: Same	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS: 179 Lake Avenue	ADDRESS:		
CITY: Rochester STATE: NY ZIP: 14608	CITY: STATE: ZIP:	TURNAROUND TIME: (WORKING DAYS)	
PHONE: FAX:	PHONE: FAX:		
ATTN: Reporting	ATTN: Accounts Payable	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> OTHER	
COMMENTS: Please email results to reporting@paradigmenv.com		Date Due:	

REQUESTED ANALYSIS

DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	CONTAINER	TOC														REMARKS	PARADIGM LAB SAMPLE NUMBER
1 2/13/17	14:00			170564-11	Ground Water	2	X															
2	13:10			-12		2	X															
3	12:23			-13		2	X															
4																						
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 <input type="checkbox"/> N <input type="checkbox"/>
Preservation:	Y <input type="checkbox"/> N <input type="checkbox"/>
Holding Time:	Y <input type="checkbox"/> N <input type="checkbox"/>
Temperature:	Y <input type="checkbox"/> N <input type="checkbox"/>

Client

Sampled By	Date/Time
2P	2/15/17 16:00
Relinquished By	Date/Time
Jm AL AAC	2/15/17 16:45
Received By	Date/Time
Jm AL AAC	2/15/17 17:25
Received By	Date/Time
Rub Phly	2/16/17 00:45
Received @ Lab By	Date/Time

Total Cost:

P.I.F.



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Stantec

For Lab Project ID

161714

Referencing

Carriage Factory

Prepared

Monday, May 16, 2016

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

A handwritten signature in black ink, appearing to read "R. D. G. D.", is positioned above a horizontal line.

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

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

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, May 16, 2016

Page 1 of 9



Lab Project ID: 161714

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W22

Lab Sample ID: 161714-01

Date Sampled: 5/2/2016

Matrix: Groundwater

Date Received: 5/3/2016

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Cadmium	< 0.00500	mg/L		5/9/2016 12:42
Copper	< 0.0250	mg/L		5/9/2016 12:42
Lead	< 0.0100	mg/L		5/9/2016 12:42
Zinc	0.0993	mg/L		5/9/2016 12:42

Method Reference(s): EPA 6010C

EPA 3005A

Preparation Date: 5/6/2016

Data File: 050916a

Volatile Organics (Halogenated)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/5/2016 15:14
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/5/2016 15:14
1,1,2-Trichloroethane	< 2.00	ug/L		5/5/2016 15:14
1,1-Dichloroethane	< 2.00	ug/L		5/5/2016 15:14
1,1-Dichloroethene	< 2.00	ug/L		5/5/2016 15:14
1,2-Dichlorobenzene	< 2.00	ug/L		5/5/2016 15:14
1,2-Dichloroethane	< 2.00	ug/L		5/5/2016 15:14
1,2-Dichloropropane	< 2.00	ug/L		5/5/2016 15:14
1,3-Dichlorobenzene	< 2.00	ug/L		5/5/2016 15:14
1,4-Dichlorobenzene	< 2.00	ug/L		5/5/2016 15:14
Bromodichloromethane	< 2.00	ug/L		5/5/2016 15:14
Bromoform	< 5.00	ug/L		5/5/2016 15:14
Bromomethane	< 2.00	ug/L		5/5/2016 15:14
Carbon Tetrachloride	< 2.00	ug/L		5/5/2016 15:14
Chlorobenzene	< 2.00	ug/L		5/5/2016 15:14
Chloroethane	< 2.00	ug/L		5/5/2016 15:14
Chloroform	< 2.00	ug/L		5/5/2016 15:14
Chloromethane	< 2.00	ug/L		5/5/2016 15:14
cis-1,2-Dichloroethene	< 2.00	ug/L		5/5/2016 15:14

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.



Lab Project ID: 161714

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W22

Lab Sample ID: 161714-01

Date Sampled: 5/2/2016

Matrix: Groundwater

Date Received: 5/3/2016

cis-1,3-Dichloropropene	< 2.00	ug/L	5/5/2016	15:14
Dibromochloromethane	< 2.00	ug/L	5/5/2016	15:14
Methylene chloride	< 5.00	ug/L	5/5/2016	15:14
Tetrachloroethene	< 2.00	ug/L	5/5/2016	15:14
trans-1,2-Dichloroethene	< 2.00	ug/L	5/5/2016	15:14
trans-1,3-Dichloropropene	< 2.00	ug/L	5/5/2016	15:14
Trichloroethene	< 2.00	ug/L	5/5/2016	15:14
Trichlorofluoromethane	< 2.00	ug/L	5/5/2016	15:14
Vinyl chloride	< 2.00	ug/L	5/5/2016	15:14

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	102	81.1 - 122		5/5/2016 15:14
4-Bromofluorobenzene	91.2	78.7 - 116		5/5/2016 15:14
Pentafluorobenzene	101	88.6 - 112		5/5/2016 15:14
Toluene-D8	99.2	88.9 - 110		5/5/2016 15:14

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x32094.D

Lab Project ID: 161714

Client: Stantec
Project Reference: Carriage Factory

Sample Identifier: LI-EL-W23

Lab Sample ID: 161714-02

Date Sampled: 5/3/2016

Matrix: Groundwater

Date Received: 5/3/2016

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Cadmium	< 0.00500	mg/L		5/9/2016 12:47
Copper	< 0.0250	mg/L		5/9/2016 12:47
Lead	< 0.0100	mg/L		5/9/2016 12:47
Zinc	< 0.0600	mg/L		5/9/2016 12:47

Method Reference(s): EPA 6010C

EPA 3005A

Preparation Date: 5/6/2016

Data File: 050916a

Volatile Organics (Halogenated)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		5/5/2016 15:38
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		5/5/2016 15:38
1,1,2-Trichloroethane	< 2.00	ug/L		5/5/2016 15:38
1,1-Dichloroethane	< 2.00	ug/L		5/5/2016 15:38
1,1-Dichloroethene	< 2.00	ug/L		5/5/2016 15:38
1,2-Dichlorobenzene	< 2.00	ug/L		5/5/2016 15:38
1,2-Dichloroethane	< 2.00	ug/L		5/5/2016 15:38
1,2-Dichloropropane	< 2.00	ug/L		5/5/2016 15:38
1,3-Dichlorobenzene	< 2.00	ug/L		5/5/2016 15:38
1,4-Dichlorobenzene	< 2.00	ug/L		5/5/2016 15:38
Bromodichloromethane	< 2.00	ug/L		5/5/2016 15:38
Bromoform	< 5.00	ug/L		5/5/2016 15:38
Bromomethane	< 2.00	ug/L		5/5/2016 15:38
Carbon Tetrachloride	< 2.00	ug/L		5/5/2016 15:38
Chlorobenzene	< 2.00	ug/L		5/5/2016 15:38
Chloroethane	< 2.00	ug/L		5/5/2016 15:38
Chloroform	< 2.00	ug/L		5/5/2016 15:38
Chloromethane	< 2.00	ug/L		5/5/2016 15:38
cis-1,2-Dichloroethene	109	ug/L		5/5/2016 15:38

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Lab Project ID: 161714

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier:		LI-EL-W23			
Lab Sample ID:		161714-02		Date Sampled:	5/3/2016
Matrix:		Groundwater		Date Received:	5/3/2016
<hr/>					
cis-1,3-Dichloropropene	< 2.00	ug/L		5/5/2016	15:38
Dibromochloromethane	< 2.00	ug/L		5/5/2016	15:38
Methylene chloride	< 5.00	ug/L		5/5/2016	15:38
Tetrachloroethene	< 2.00	ug/L		5/5/2016	15:38
trans-1,2-Dichloroethene	< 2.00	ug/L		5/5/2016	15:38
trans-1,3-Dichloropropene	< 2.00	ug/L		5/5/2016	15:38
Trichloroethene	< 2.00	ug/L		5/5/2016	15:38
Trichlorofluoromethane	< 2.00	ug/L		5/5/2016	15:38
Vinyl chloride	35.9	ug/L		5/5/2016	15:38
Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed	
1,2-Dichloroethane-d4	103	81.1 - 122		5/5/2016	15:38
4-Bromofluorobenzene	90.1	78.7 - 116		5/5/2016	15:38
Pentafluorobenzene	102	88.6 - 112		5/5/2016	15:38
Toluene-D8	99.8	88.9 - 110		5/5/2016	15:38
<hr/>					
Method Reference(s):		EPA 8260C			
		EPA 5030C			
Data File:		x32095.D			

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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.

"J" = Result estimated between the quantitation limit and half the quantitation limit.

"L" = Laboratory Control Sample recovery outside accepted QC limits.

"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.

"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.

"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*

"(1)" = Indicates data from primary column used for QC calculation.

"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.

"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

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GENERAL TERMS AND CONDITIONS

LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation.

LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.

Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility.

LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

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CHAIN OF CUSTODY

1 of 2

PARADIGM
LABORATORY SERVICES, INC.

REPORT TO:

INVOICE TO:

LAB PROJECT ID

CLIENT:

Stantec

CLIENT:

Same

ADDRESS:

61 Commercial St

ADDRESS:

161714

CITY:

Rochester

CITY:

Rochester

STATE:

NY

Quotation #:

161714

PHONE:

413-5266

PHONE:

978-52248

ATTN:

Mike Starnesky

ATTN:

Ben Haravitch

Email:

Mike.Starnesky@stantec.com

PROJECT REFERENCE

Matrix Codes:

AQ - Aqueous Liquid
NQ - Non-Aqueous LiquidWA - Water
WG - GroundwaterDW - Drinking Water
WW - WastewaterSO - Soil
SL - SludgeSD - Solid
PT - PaintWP - Wipe
CK - CaulkOL - Oil
AR - Air

REQUESTED ANALYSIS

DATE COLLECTED

TIME COLLECTED

COMPOSITE
P O S I T I V E
G R A B

SAMPLE IDENTIFIER

M C A O T R I S
N O U N T
C O M B I N E
F O R S

REMARKS

PARADIGM LAB
SAMPLE
NUMBER

5/2/16 1450

X

LI-EL-W22

WG 3

X X

X X

X X

X X

X X

X X

X X

X X

X X

X X

5/3/16 1350

X

LI-EL-W23

WG 3

X X

X X

X X

X X

X X

X X

X X

X X

X X

X X

Turnaround Time

Report Supplements

Availability contingent upon lab approval; additional fees may apply.

Standard 5 day

☐

None Required

☐

None Required

☐

10 day

☐

Batch QC

☐

Basic EDD

☐

Rush 3 day

☐

Category A

☐

NYSDEC EDD

☒

Rush 2 day

☐

Category B

☐

Rush 1 day

☐

Other

☒

Other

☐

Other EDD

☒

10-day

☐

Other

☐

Other EDD

☒

Ben Haravitch

5/3/16

1350

Total Cost:

Ben Haravitch

5/3/16

1540

Ben Haravitch

5/3/16

1540

P.L.F.

Received @ Lab By

Date/Time

5/3/16 16:28

Received 5/3/16 15:50

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).



Chain of Custody Supplement

Client: Startec
 Lab Project ID: 161714

Completed by: Glen Pezzulo
 Date: 5/3/16

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		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments				
Transferred to method-compliant container		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Headspace (<1 mL)		<input checked="" type="checkbox"/> VOA	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments				
Preservation		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments				
Chlorine Absent (<0.10 ppm per test strip)		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments				
Holding Time		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments				
Temperature		<input checked="" type="checkbox"/> 5°C iced	<input type="checkbox"/>	<input checked="" type="checkbox"/> Mch's
Comments				
Sufficient Sample Quantity		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments				



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report For

Stantec

For Lab Project ID

163435

Referencing

Carriage Factory

Prepared

Wednesday, August 24, 2016

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

A handwritten signature in black ink, consisting of a series of diagonal strokes followed by a horizontal line.

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

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958 • PADEP ID# 68-02351

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Report Prepared Wednesday, August 24, 2016

Page 1 of 9



Lab Project ID: 163435

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W24

Lab Sample ID: 163435-01

Date Sampled: 8/9/2016

Matrix: Groundwater

Date Received: 8/10/2016

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Cadmium	< 0.00500	mg/L		8/15/2016 20:58
Copper	0.0276	mg/L		8/15/2016 20:58
Lead	0.0275	mg/L		8/17/2016 10:29
Zinc	0.136	mg/L		8/15/2016 20:58

Method Reference(s): EPA 6010C

EPA 3005A

Preparation Date: 8/12/2016

Data File: 081516b

Volatile Organics (Halogenated)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/19/2016 16:20
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/19/2016 16:20
1,1,2-Trichloroethane	< 2.00	ug/L		8/19/2016 16:20
1,1-Dichloroethane	< 2.00	ug/L		8/19/2016 16:20
1,1-Dichloroethene	< 2.00	ug/L		8/19/2016 16:20
1,2-Dichlorobenzene	< 2.00	ug/L		8/19/2016 16:20
1,2-Dichloroethane	< 2.00	ug/L		8/19/2016 16:20
1,2-Dichloropropane	< 2.00	ug/L		8/19/2016 16:20
1,3-Dichlorobenzene	< 2.00	ug/L		8/19/2016 16:20
1,4-Dichlorobenzene	< 2.00	ug/L		8/19/2016 16:20
Bromodichloromethane	< 2.00	ug/L		8/19/2016 16:20
Bromoform	< 5.00	ug/L		8/19/2016 16:20
Bromomethane	< 2.00	ug/L		8/19/2016 16:20
Carbon Tetrachloride	< 2.00	ug/L		8/19/2016 16:20
Chlorobenzene	< 2.00	ug/L		8/19/2016 16:20
Chloroethane	< 2.00	ug/L		8/19/2016 16:20
Chloroform	< 2.00	ug/L		8/19/2016 16:20
Chloromethane	< 2.00	ug/L		8/19/2016 16:20
cis-1,2-Dichloroethene	< 2.00	ug/L		8/19/2016 16:20

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.



Lab Project ID: 163435

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W24

Lab Sample ID: 163435-01

Date Sampled: 8/9/2016

Matrix: Groundwater

Date Received: 8/10/2016

cis-1,3-Dichloropropene	< 2.00	ug/L	8/19/2016 16:20
Dibromochloromethane	< 2.00	ug/L	8/19/2016 16:20
Methylene chloride	< 5.00	ug/L	8/19/2016 16:20
Tetrachloroethene	< 2.00	ug/L	8/19/2016 16:20
trans-1,2-Dichloroethene	< 2.00	ug/L	8/19/2016 16:20
trans-1,3-Dichloropropene	< 2.00	ug/L	8/19/2016 16:20
Trichloroethene	< 2.00	ug/L	8/19/2016 16:20
Trichlorofluoromethane	< 2.00	ug/L	8/19/2016 16:20
Vinyl chloride	< 2.00	ug/L	8/19/2016 16:20

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	107	86 - 116		8/19/2016 16:20
4-Bromofluorobenzene	95.5	82.2 - 113		8/19/2016 16:20
Pentafluorobenzene	103	90.9 - 110		8/19/2016 16:20
Toluene-D8	97.1	90.8 - 109		8/19/2016 16:20

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x34675.D

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Lab Project ID: 163435

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W25

Lab Sample ID: 163435-02

Date Sampled: 8/10/2016

Matrix: Groundwater

Date Received: 8/10/2016

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Cadmium	< 0.00500	mg/L		8/15/2016 21:02
Copper	< 0.0250	mg/L		8/15/2016 21:02
Lead	< 0.0100	mg/L		8/15/2016 21:02
Zinc	< 0.0600	mg/L		8/15/2016 21:02

Method Reference(s): EPA 6010C

EPA 3005A

Preparation Date: 8/12/2016

Data File: 081516b

Volatile Organics (Halogenated)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		8/19/2016 16:43
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		8/19/2016 16:43
1,1,2-Trichloroethane	< 2.00	ug/L		8/19/2016 16:43
1,1-Dichloroethane	< 2.00	ug/L		8/19/2016 16:43
1,1-Dichloroethene	< 2.00	ug/L		8/19/2016 16:43
1,2-Dichlorobenzene	< 2.00	ug/L		8/19/2016 16:43
1,2-Dichloroethane	< 2.00	ug/L		8/19/2016 16:43
1,2-Dichloropropane	< 2.00	ug/L		8/19/2016 16:43
1,3-Dichlorobenzene	< 2.00	ug/L		8/19/2016 16:43
1,4-Dichlorobenzene	< 2.00	ug/L		8/19/2016 16:43
Bromodichloromethane	< 2.00	ug/L		8/19/2016 16:43
Bromoform	< 5.00	ug/L		8/19/2016 16:43
Bromomethane	< 2.00	ug/L		8/19/2016 16:43
Carbon Tetrachloride	< 2.00	ug/L		8/19/2016 16:43
Chlorobenzene	< 2.00	ug/L		8/19/2016 16:43
Chloroethane	< 2.00	ug/L		8/19/2016 16:43
Chloroform	< 2.00	ug/L		8/19/2016 16:43
Chloromethane	< 2.00	ug/L		8/19/2016 16:43
cis-1,2-Dichloroethene	38.8	ug/L		8/19/2016 16:43

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.



Lab Project ID: 163435

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W25

Lab Sample ID: 163435-02

Date Sampled: 8/10/2016

Matrix: Groundwater

Date Received: 8/10/2016

cis-1,3-Dichloropropene	< 2.00	ug/L	8/19/2016 16:43
Dibromochloromethane	< 2.00	ug/L	8/19/2016 16:43
Methylene chloride	< 5.00	ug/L	8/19/2016 16:43
Tetrachloroethene	< 2.00	ug/L	8/19/2016 16:43
trans-1,2-Dichloroethene	< 2.00	ug/L	8/19/2016 16:43
trans-1,3-Dichloropropene	< 2.00	ug/L	8/19/2016 16:43
Trichloroethene	< 2.00	ug/L	8/19/2016 16:43
Trichlorofluoromethane	< 2.00	ug/L	8/19/2016 16:43
Vinyl chloride	16.4	ug/L	8/19/2016 16:43

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	105	86 - 116		8/19/2016 16:43
4-Bromofluorobenzene	97.5	82.2 - 113		8/19/2016 16:43
Pentafluorobenzene	103	90.9 - 110		8/19/2016 16:43
Toluene-D8	97.5	90.8 - 109		8/19/2016 16:43

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x34676.D



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.

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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.

"J" = Result estimated between the quantitation limit and half the quantitation limit.

"L" = Laboratory Control Sample recovery outside accepted QC limits.

"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.

"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.

"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*

"(1)" = Indicates data from primary column used for QC calculation.

"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.

"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

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GENERAL TERMS AND CONDITIONS

LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation.

LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.

Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility.

LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

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
PUBLISHERS

REPORT TO:

INVOICE TO:

PROJECT REFERENCE
Carriage factory

[illegible]

Turnaround Time	Report Supplements	
Availability contingent upon lab approval; additional fees may apply.		
Standard 5 day	<input type="checkbox"/>	None Required <input type="checkbox"/>
10 day	<input type="checkbox"/>	Batch QC <input type="checkbox"/>
Rush 3 day	<input type="checkbox"/>	Category A <input type="checkbox"/>
Rush 2 day	<input type="checkbox"/>	Category B <input type="checkbox"/>
Rush 1 day	<input type="checkbox"/>	
Other <input checked="" type="checkbox"/>	Other <input type="checkbox"/>	Other EDD <input checked="" type="checkbox"/>
please indicate date needed: 10 day	please indicate package needed: _____	please indicate EDD needed: State

See additional page for sample conditions.



Chain of Custody Supplement

282

Client: Stantec
Lab Project ID: 163435

Completed by: Glenn Pezzulo
Date: 8/10/16

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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			
Transferred to method-compliant container	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Headspace (<1 mL)	<input checked="" type="checkbox"/> vOA (03)	<input checked="" type="checkbox"/> vOA (01)	<input checked="" type="checkbox"/> metals
Comments	Both vOA vials for sample 01 have headspace > 1mL		
Preservation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			
Chlorine Absent (<0.10 ppm per test strip)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments			
Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			
Temperature	<input checked="" type="checkbox"/> vOA (03)	<input checked="" type="checkbox"/> vOA (01)	<input checked="" type="checkbox"/> metals
Comments			
Sufficient Sample Quantity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			



PARADIGM
ENVIRONMENTAL SERVICES, INC.

2016 Q4 Elevator Sump Sample (W26)
2/13/17

Analytical Report For

Stantec

For Lab Project ID

170519

Referencing

Carriage Factory

Prepared

Thursday, February 23, 2017

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

A handwritten signature in black ink, consisting of a series of overlapping, slanted strokes, positioned above a horizontal line.

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

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

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Report Prepared Thursday, February 23, 2017

Page 1 of 7



Lab Project ID: 170519

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W26

Lab Sample ID: 170519-01

Date Sampled: 2/13/2017

Matrix: Groundwater

Date Received: 2/14/2017

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Cadmium	< 0.00500	mg/L		2/16/2017 11:40
Copper	< 0.0250	mg/L		2/16/2017 11:40
Lead	< 0.0100	mg/L		2/16/2017 16:49
Zinc	< 0.0600	mg/L		2/16/2017 11:40

Method Reference(s): EPA 6010C

EPA 3005A

Preparation Date: 2/14/2017

Data File: 021617a

Volatile Organics (Halogenated)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/17/2017 19:45
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/17/2017 19:45
1,1,2-Trichloroethane	< 2.00	ug/L		2/17/2017 19:45
1,1-Dichloroethane	< 2.00	ug/L		2/17/2017 19:45
1,1-Dichloroethene	< 2.00	ug/L		2/17/2017 19:45
1,2-Dichlorobenzene	< 2.00	ug/L		2/17/2017 19:45
1,2-Dichloroethane	< 2.00	ug/L		2/17/2017 19:45
1,2-Dichloropropane	< 2.00	ug/L		2/17/2017 19:45
1,3-Dichlorobenzene	< 2.00	ug/L		2/17/2017 19:45
1,4-Dichlorobenzene	< 2.00	ug/L		2/17/2017 19:45
Bromodichloromethane	< 2.00	ug/L		2/17/2017 19:45
Bromoform	< 5.00	ug/L		2/17/2017 19:45
Bromomethane	< 2.00	ug/L		2/17/2017 19:45
Carbon Tetrachloride	< 2.00	ug/L		2/17/2017 19:45
Chlorobenzene	< 2.00	ug/L		2/17/2017 19:45
Chloroethane	< 2.00	ug/L		2/17/2017 19:45
Chloroform	< 2.00	ug/L		2/17/2017 19:45
Chloromethane	< 2.00	ug/L		2/17/2017 19:45
cis-1,2-Dichloroethene	< 2.00	ug/L		2/17/2017 19:45

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Project Reference: Carriage Factory

Sample Identifier: LI-EL-W26

Lab Sample ID: 170519-01

Date Sampled: 2/13/2017

Matrix: Groundwater

Date Received: 2/14/2017

cis-1,3-Dichloropropene	< 2.00	ug/L	2/17/2017	19:45
Dibromochloromethane	< 2.00	ug/L	2/17/2017	19:45
Methylene chloride	< 5.00	ug/L	2/17/2017	19:45
Tetrachloroethene	< 2.00	ug/L	2/17/2017	19:45
trans-1,2-Dichloroethene	< 2.00	ug/L	2/17/2017	19:45
trans-1,3-Dichloropropene	< 2.00	ug/L	2/17/2017	19:45
Trichloroethene	< 2.00	ug/L	2/17/2017	19:45
Trichlorofluoromethane	< 2.00	ug/L	2/17/2017	19:45
Vinyl chloride	< 2.00	ug/L	2/17/2017	19:45

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	102	81.2 - 120		2/17/2017 19:45
4-Bromofluorobenzene	92.1	82.4 - 112		2/17/2017 19:45
Pentafluorobenzene	97.6	90.2 - 112		2/17/2017 19:45
Toluene-D8	96.0	89.9 - 109		2/17/2017 19:45

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x39276.D

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Report Prepared Thursday, February 23, 2017

Page 3 of 7



Analytical Report Appendix

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

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"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.

"J" = Result estimated between the quantitation limit and half the quantitation limit.

"L" = Laboratory Control Sample recovery outside accepted QC limits.

"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.

"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.

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"(1)" = Indicates data from primary column used for QC calculation.

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Prices.

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Limitations of Liability.

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LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.

Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility.

LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

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CHAIN OF CUSTODY

[illegible]

Turnaround Time		Report Supplements	
Availability contingent upon lab approval; additional fees may apply.			
Standard 5 day	<input type="checkbox"/>	None Required	<input checked="" type="checkbox"/>
10 day	<input type="checkbox"/>	Batch QC	<input type="checkbox"/>
Rush 3 day	<input type="checkbox"/>	Category A	<input type="checkbox"/>
Rush 2 day	<input type="checkbox"/>	Category B	<input type="checkbox"/>
Rush 1 day	<input type="checkbox"/>		
Other	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>
please indicate date needed:	<u>10-day</u>	please indicate package needed:	<u>Starter</u>

Benjamin Hamstel	
Sampled By	2/13/17 1100
Benjamin Hamstel	2/13/17 1720
Relinquished By	2/13/17 1735
Received By	2/14/17 09:28
Received @ Lab By	

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.



2 of 2

Chain of Custody Supplement

Client:

Stantec

Completed by:

Glenn Pezzullo

Lab Project ID:

170519

Date:

2/14/17**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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			
Transferred to method-compliant container	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Headspace (<1 mL)	<input checked="" type="checkbox"/> v/v A	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments			
Preservation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			
Chlorine Absent (<0.10 ppm per test strip)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments			
Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			
Temperature	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> metals
Comments	<u>7.0°C iceed started in field</u>		
Sufficient Sample Quantity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			



PARADIGM
ENVIRONMENTAL SERVICES, INC.

Well Purge Water sample (W-27)
and
2017 Q1 Elevator Sump Sample (W28)
2/14/17

Analytical Report For

Stantec

For Lab Project ID

170547

Referencing

Carriage Factory

Prepared

Tuesday, February 21, 2017

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

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

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

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 Tuesday, February 21, 2017

Page 1 of 9



Lab Project ID: 170547

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W27

Lab Sample ID: 170547-01

Date Sampled: 2/14/2017

Matrix: Groundwater

Date Received: 2/15/2017

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Cadmium	< 0.00500	mg/L		2/16/2017 12:30
Copper	< 0.0250	mg/L		2/16/2017 12:30
Lead	< 0.0100	mg/L		2/16/2017 16:53
Zinc	< 0.0600	mg/L		2/16/2017 12:30

Method Reference(s): EPA 6010C

EPA 3005A

Preparation Date: 2/15/2017

Data File: 021617a

Volatile Organics (Halogenated)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/17/2017 17:05
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/17/2017 17:05
1,1,2-Trichloroethane	< 2.00	ug/L		2/17/2017 17:05
1,1-Dichloroethane	< 2.00	ug/L		2/17/2017 17:05
1,1-Dichloroethene	< 2.00	ug/L		2/17/2017 17:05
1,2-Dichlorobenzene	< 2.00	ug/L		2/17/2017 17:05
1,2-Dichloroethane	< 2.00	ug/L		2/17/2017 17:05
1,2-Dichloropropane	< 2.00	ug/L		2/17/2017 17:05
1,3-Dichlorobenzene	< 2.00	ug/L		2/17/2017 17:05
1,4-Dichlorobenzene	< 2.00	ug/L		2/17/2017 17:05
Bromodichloromethane	< 2.00	ug/L		2/17/2017 17:05
Bromoform	< 5.00	ug/L		2/17/2017 17:05
Bromomethane	< 2.00	ug/L		2/17/2017 17:05
Carbon Tetrachloride	< 2.00	ug/L		2/17/2017 17:05
Chlorobenzene	< 2.00	ug/L		2/17/2017 17:05
Chloroethane	< 2.00	ug/L		2/17/2017 17:05
Chloroform	< 2.00	ug/L		2/17/2017 17:05
Chloromethane	< 2.00	ug/L		2/17/2017 17:05
cis-1,2-Dichloroethene	8.02	ug/L		2/17/2017 17:05

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Lab Project ID: 170547

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W27

Lab Sample ID: 170547-01

Date Sampled: 2/14/2017

Matrix: Groundwater

Date Received: 2/15/2017

cis-1,3-Dichloropropene	< 2.00	ug/L	2/17/2017	17:05
Dibromochloromethane	< 2.00	ug/L	2/17/2017	17:05
Methylene chloride	< 5.00	ug/L	2/17/2017	17:05
Tetrachloroethene	< 2.00	ug/L	2/17/2017	17:05
trans-1,2-Dichloroethene	< 2.00	ug/L	2/17/2017	17:05
trans-1,3-Dichloropropene	< 2.00	ug/L	2/17/2017	17:05
Trichloroethene	< 2.00	ug/L	2/17/2017	17:05
Trichlorofluoromethane	< 2.00	ug/L	2/17/2017	17:05
Vinyl chloride	4.01	ug/L	2/17/2017	17:05

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	100	81.2 - 120		2/17/2017 17:05
4-Bromofluorobenzene	91.5	82.4 - 112		2/17/2017 17:05
Pentafluorobenzene	99.9	90.2 - 112		2/17/2017 17:05
Toluene-D8	95.7	89.9 - 109		2/17/2017 17:05

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x39269.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 Tuesday, February 21, 2017

Page 3 of 9



Lab Project ID: 170547

Client: **Stantec**

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W28

Lab Sample ID: 170547-02

Date Sampled: 2/14/2017

Matrix: Groundwater

Date Received: 2/15/2017

Metals

Analyte	Result	Units	Qualifier	Date Analyzed
Cadmium	< 0.00500	mg/L		2/16/2017 12:34
Copper	< 0.0250	mg/L		2/16/2017 12:34
Lead	< 0.0100	mg/L		2/16/2017 16:57
Zinc	< 0.0600	mg/L		2/16/2017 12:34

Method Reference(s): EPA 6010C

EPA 3005A

Preparation Date: 2/15/2017

Data File: 021617a

Volatile Organics (Halogenated)

Analyte	Result	Units	Qualifier	Date Analyzed
1,1,1-Trichloroethane	< 2.00	ug/L		2/17/2017 17:28
1,1,2,2-Tetrachloroethane	< 2.00	ug/L		2/17/2017 17:28
1,1,2-Trichloroethane	< 2.00	ug/L		2/17/2017 17:28
1,1-Dichloroethane	< 2.00	ug/L		2/17/2017 17:28
1,1-Dichloroethene	< 2.00	ug/L		2/17/2017 17:28
1,2-Dichlorobenzene	< 2.00	ug/L		2/17/2017 17:28
1,2-Dichloroethane	< 2.00	ug/L		2/17/2017 17:28
1,2-Dichloropropane	< 2.00	ug/L		2/17/2017 17:28
1,3-Dichlorobenzene	< 2.00	ug/L		2/17/2017 17:28
1,4-Dichlorobenzene	< 2.00	ug/L		2/17/2017 17:28
Bromodichloromethane	< 2.00	ug/L		2/17/2017 17:28
Bromoform	< 5.00	ug/L		2/17/2017 17:28
Bromomethane	< 2.00	ug/L		2/17/2017 17:28
Carbon Tetrachloride	< 2.00	ug/L		2/17/2017 17:28
Chlorobenzene	< 2.00	ug/L		2/17/2017 17:28
Chloroethane	< 2.00	ug/L		2/17/2017 17:28
Chloroform	< 2.00	ug/L		2/17/2017 17:28
Chloromethane	< 2.00	ug/L		2/17/2017 17:28
cis-1,2-Dichloroethene	< 2.00	ug/L		2/17/2017 17:28

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.



Lab Project ID: 170547

Client: Stantec

Project Reference: Carriage Factory

Sample Identifier: LI-EL-W28

Lab Sample ID: 170547-02

Date Sampled: 2/14/2017

Matrix: Groundwater

Date Received: 2/15/2017

cis-1,3-Dichloropropene	< 2.00	ug/L	2/17/2017 17:28
Dibromochloromethane	< 2.00	ug/L	2/17/2017 17:28
Methylene chloride	< 5.00	ug/L	2/17/2017 17:28
Tetrachloroethene	< 2.00	ug/L	2/17/2017 17:28
trans-1,2-Dichloroethene	< 2.00	ug/L	2/17/2017 17:28
trans-1,3-Dichloropropene	< 2.00	ug/L	2/17/2017 17:28
Trichloroethene	< 2.00	ug/L	2/17/2017 17:28
Trichlorofluoromethane	< 2.00	ug/L	2/17/2017 17:28
Vinyl chloride	< 2.00	ug/L	2/17/2017 17:28

Surrogate	Percent Recovery	Limits	Outliers	Date Analyzed
1,2-Dichloroethane-d4	102	81.2 - 120		2/17/2017 17:28
4-Bromofluorobenzene	91.9	82.4 - 112		2/17/2017 17:28
Pentafluorobenzene	99.6	90.2 - 112		2/17/2017 17:28
Toluene-D8	98.3	89.9 - 109		2/17/2017 17:28

Method Reference(s): EPA 8260C

EPA 5030C

Data File: x39270.D



Analytical Report Appendix

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

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

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.

"J" = Result estimated between the quantitation limit and half the quantitation limit.

"L" = Laboratory Control Sample recovery outside accepted QC limits.

"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.

"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.

"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*

"(1)" = Indicates data from primary column used for QC calculation.

"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.

"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

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GENERAL TERMS AND CONDITIONS

LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, term or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty.

Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation.

LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB will use LAB default method for all tests unless specified otherwise on the Work Order.

Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices.

Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability.

In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.

LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.

All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.

Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure.

Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling.

Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.

Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on the final report.

Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.

LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility.

LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment.

LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure.

LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law.

This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

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.



CHAIN OF CUSTODY

[illegible]

Turnaround Time		Report Supplements	
Availability contingent upon lab approval; additional fees may apply.			
Standard 5 day	<input type="checkbox"/>	None Required	<input checked="" type="checkbox"/>
10 day	<input type="checkbox"/>	Batch QC	<input type="checkbox"/>
Rush 3 day	<input type="checkbox"/>	Category A	<input type="checkbox"/>
Rush 2 day	<input type="checkbox"/>	Category B	<input type="checkbox"/>
Rush 1 day	<input type="checkbox"/>		
Other	<input checked="" type="checkbox"/>	Other	<input type="checkbox"/>
please indicate date needed:	10-Day	please indicate package needed:	Standard

Benjamin Hambley 2/17/17	
Sampled By	Date/Time
Benjamin Hambley	
Relinquished By	Date/Time
K. E. - G. L.	2/14/17 1803
Received By	Date/Time
SP2	2/15/17 09:58
Received @ Lab By	Date/Time

9°C 2/14/17 1805
iced

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.



Chain of Custody Supplement

2 of 2

Client: Stantec

Completed by: Glenn Pezzullo

Lab Project ID: 170547

Date: 2/15/17

Sample Condition Requirements

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

NELAC compliance with the sample condition requirements upon receipt			
Condition	Yes	No	N/A
Container Type	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			
Transferred to method-compliant container	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Headspace (<1 mL)	<input checked="" type="checkbox"/> uA	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments			
Preservation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			
Chlorine Absent (<0.10 ppm per test strip)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Comments			
Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			
Temperature	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/> metals
Comments	<u>9°C recd started in field</u>		
Sufficient Sample Quantity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Comments			

Appendix D

Data Usability Summary Reports

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
harry@frontiernet.net

April 7, 2017

Ben Haravitch
Stantec
61 Commercial St.
Rochester, NY 14614

RE: Data Usability Summary Report (DUSR)
Validation of the 33 Litchfield Old Carriage Factory Remediation Site Analytical Data
Paradigm SDG Nos. 161713, 163436, and 170564

Dear Mr. Haravitch:

Review has been completed for the data packages generated by Paradigm Environmental Services, Inc that pertain to samples collected between May 2, 2016 and February 13, 2017 at the 33 Litchfield Carriage Factory site. Thirty six aqueous samples and three field duplicates were analyzed for TCL volatiles and TOC. Matrix spikes and trip blanks were also processed. Analytical methodologies are those of the USEPA SW846 8260 and Standard Methods SM5310C. TOC results were subcontracted to Alpha Analytical.

The data package submitted by the laboratory contains full deliverables for validation, but this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, in accordance with the project QAPP, with guidance from the USEPA national and regional validation documents, and in consideration for the specific requirements of the analytical methodology. The following items were reviewed:

- * Data Completeness
- * Case Narrative
- * Custody Documentation/Sample Receipt
- * Holding Times
- * Surrogate and Internal Standard Recoveries
- * Calibration/Trip/Method Blanks
- * Laboratory Control Sample (LCS)
- * Blind Field Duplicate Correlations
- * Instrumental Tunes
- * Calibration Standards
- * Method Compliance
- * Sample Result Verification

The data review includes evaluation of the specific items noted in The NYS DER-10 Appendix B section 2.0 (c). The items listed above that show deficiencies are discussed within the text of this narrative. The laboratory QC forms illustrating the excursions can be found within the laboratory data package.

In summary, most results are usable either as reported or with minor qualification or edit. However, the results for one volatile analyte are rejected due to poor instrument response.

Accuracy, precision, data completeness, sensitivity, representativeness, and the analytical method comparability are acceptable.

Client sample identifications are attached to this text, and should be reviewed in conjunction with this report. Also attached are the client EDD files, with recommended qualifiers/edits applied in red.

Chain-of-Custody/Sample Receipt

The laboratory chains of custody do not have sufficient fields for relinquish entries, and therefore the final receipt entries are not preceded by relinquish entries.

The second page of the subcontract custody form for samples collected in May does not show any relinquish entries.

The custody forms should have fields to indicate preservation. The volatile preparation/analysis logs do not include the pH of the samples, but the samples were processed within the holding time for unpreserved samples. The TOC logs, processed by Alpha, do show the proper pH.

General

The data deliverables are not in compliance with NYS category B. The Paradigm sample report forms do not include the required information such as volume of sample, dilution factor, preparation date, etc.

The method 415.1 was requested on the chain-of-custody for the TOC analyses. The laboratories utilized method MW5310C

Field Duplicate Correlations

Aqueous field duplicates were collected at locations LI-RW-3-PS6, LI-RW-9-PS9, and LI-RW-3-PS15, and show acceptable correlations.

Volatile Analyses by EPA8260C

The detection of vinyl chloride in LI-RW-4-PS6 is edited to non-detection due to very poor, non-definitive mass spectral quality.

The detections of vinyl chloride in LI-RW-4-PS15, LI-RW-1-PS6, LI-B108-MW-PS6, LI-RW-1-PS9, LI-RW-2-PS9, LI-RW-3-PS9, LI-RW-4-PS9, LI-B106-MW-PS9, LI-B108-MW-PS9, and of 2-butanone in LI-RW-4-PS6 are qualified as tentative in identification and estimated in value due to significant mass spectral interferences.

The matrix spikes of LI-RW-2-PS6, LI-RW-2-PS156, and LI-B102-MW-PS9 show acceptable recoveries and correlations, with the exception of one slightly low recovery for bromomethane. Although required of the protocol, not all of the target analytes were evaluated. No qualification to the data is made.

Due to low responses inherent in the methodology, the results for 1,4-dioxane are rejected and not usable. Other calibration standards show acceptable responses, with the exceptions, results for which have been qualified as estimated in the indicated samples:

- bromomethane (34%D and 37%D) in the samples collected in May 2016
- acetone (47%D) in samples reported in February 2017

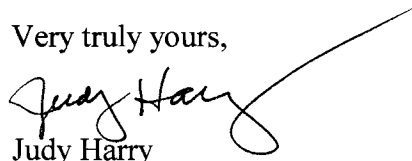
TOC by SM5310C

Review was conducted for method compliance, holding times, transcription, calculations, standard and blank acceptability, accuracy and precision, etc., as applicable to each procedure.

Matrix spike/duplicate evaluations were performed for TOC on LI-RW-2-PS6, LI-B102-MW-PS9, and LI-RW-2-PS15, and show acceptable recoveries and correlations.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,



Judy Harry

Att: Validation Qualifier Definitions
Client and Laboratory Sample IDs
Qualified Client EQUIS EDDs

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
J-	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
J+	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
UJ	The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

CLIENT and LABORATORY SAMPLE IDs

BATCH COMPLETE: 5/3/2016
DATE DUE: 5/31/2016
PROTOCOL: SW846

[illegible]

[illegible]

BATCH COMPLETE: 2/15/2017
DATE DUE: 3/15/2017
PROTOCOL: SW846

[illegible]