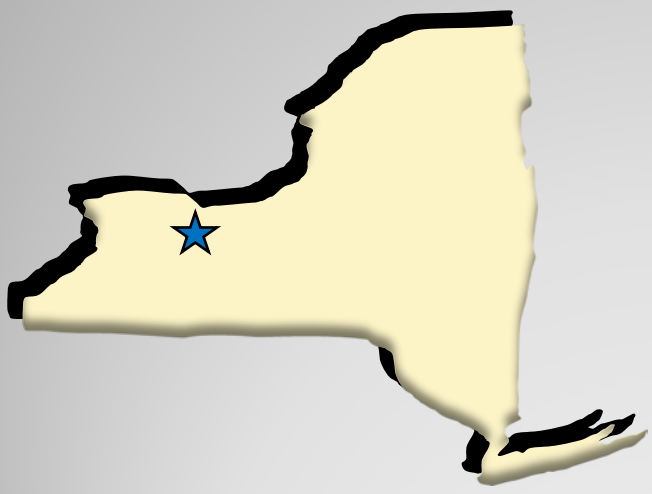
FINAL PERIODIC REVIEW REPORT (2010)

Autohaus of Rochester Site (828024)
Monroe County, East Rochester, New York



Prepared for:

New York State Department of Environmental Conservation
Division of Environmental Remediation

Prepared by:

EA ENGINEERING, P.C. and Its Affiliate
EA SCIENCE and TECHNOLOGY

August 2011

Periodic Review Report (2010)
Autohaus of Rochester (828084)
East Rochester, New York

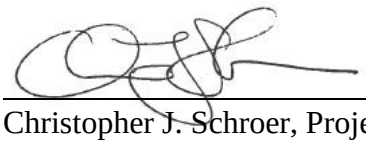
Prepared for

New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233

Prepared by

EA Engineering, P.C. and Its Affiliate
EA Science and Technology
6712 Brooklawn Parkway, Suite 104
Syracuse, New York 13211-2158
(315) 431-4610

30 August 2011
Christopher J. Canonica, P.E., Program Manager — Date
EA Engineering, P.C.



30 August 2011
Christopher J. Schroer, Project Manager — Date
EA Science and Technology

August 2011
Revision: FINAL
EA Project No. 14474.05

CONTENTS

LIST OF FIGURES

LIST OF TABLES

ES.1 EXECUTIVE SUMMARY

The Autohaus of Rochester site is located at 99 Marsh Road in the village of East Rochester, New York and covers approximately 1.6 acres. The site is surrounded by both commercial and residential development. In 1989 and 1990, subsurface investigations revealed the presence of volatile organic compounds (VOCs) in the groundwater adjacent to a drywell located in the parking area northeast of the Autohaus building. The drywell and surrounding soil were removed in 1992 under an interim remedial measure (IRM). A post-IRM site characterization, conducted in 1997, indicated that the majority of the impacted soil had been removed by the IRM. Subsequent groundwater monitoring indicated that the VOC concentrations in groundwater had decreased and the areal extent of impacted groundwater had not increased.

A Record of Decision dated March 1998 authorized the selected remedy of No Further Action with continued monitoring in order to confirm the decreasing trend of VOC concentrations in groundwater. Currently, groundwater samples are collected annually from six monitoring wells and analyzed for VOCs.

As of 2009, a complete evaluation of groundwater flow across the site had not been completed due to a lack of sufficient monitoring points at the site. As such, two additional groundwater monitoring wells were installed at the site in December 2010. These monitoring wells were installed with a screened interval similar to that of GP-09, for the purposes of evaluating overburden groundwater flow across the site. Following installation of the new monitoring wells, the monitoring well network was inspected and sampled. During this sampling event, monitoring well MW-09 was observed to be damaged beyond repair; as such, this well was not included in the December 2010 sampling effort.

Several VOCs have been detected during the 2007-2010 annual monitoring events with selected analytes sporadically detected at concentrations greater than their corresponding Ambient Water Quality Standards (AWQS). At piezometer location GP-09, 1,2-dichlorobenzene has been consistently detected at concentrations one order of magnitude greater than its AWQS of 5 µg/L. Additional analytes including benzene, 1,4-dichlorobenzene, ethylbenzene, toluene, and total xylenes were detected at concentrations greater than their respective AWQS within GP-09 during the December 2010 annual sampling event. All detected analytes have been at concentrations significantly less than concentrations detected prior to the implementation of the IRM.

Based on groundwater monitoring results for Fall 2007, Fall 2008, Spring 2009, and December 2010 indicating exceedences of AWQS within GP-09, additional groundwater monitoring is recommended for Fall 2011. Also, monitoring wells should be reviewed for serviceability and replaced as necessary. There is little indication that the concentrations of contaminants in groundwater are increasing or decreasing significantly, and seasonal groundwater fluctuations may influence concentrations. In the 1998 Record of Decision, it was noted that the groundwater table had risen and may have interacted with contaminated soil. EA recommends continuing sampling on an annual basis and sampling should occur during a single season.

1. INTRODUCTION

The New York State Department of Environmental Conservation (NYSDEC) tasked EA Engineering, P.C. and its affiliate EA Science and Technology (EA) to provide site management from 28 May 2007 to 30 June 2012 at the Autohaus of Rochester site located at 99 Marsh Road in the village of East Rochester, town of Perinton, Monroe County, New York (Figure 1).

One groundwater monitoring well was installed at the site in August 2007 (EA, 2009)[1]. Two additional groundwater monitoring wells were installed during December 2010 and the installation of these wells is summarized under this Periodic Review Report (PRR). The annual groundwater monitoring and facility maintenance programs, consisting of inspection and repair/replacement (if necessary), and sampling of groundwater monitoring wells, were conducted at the site in October 2007, October 2008, April 2009, and December 2010. Site monitoring is required by, and stipulated in, the Record of Decision (ROD). The purpose of this PRR is to summarize the field activities and analytical results of the annual groundwater monitoring event, site management activities, and any monitoring well repair or installation that has been completed to date and to offer recommendations for future site monitoring and maintenance activities.

1.1 BACKGROUND

The Autohaus of Rochester site covers approximately 1.6 acres, and is surrounded by commercial and residential development. A partially constructed residential development is located north of the site. The residential development property of approximately 16 acres was formerly used by the village of East Rochester as a public water supply well field. The remaining adjacent properties are occupied by a car dealership to the northeast, Marsh Road to the east and southeast, and a railroad embankment to the south. The site was a luxury car dealership and is currently listed by the NYSDEC as a Class 2 inactive hazardous waste site.

In 1989 and 1990, subsurface investigations revealed the presence of volatile organic compounds (VOCs) in the groundwater adjacent to a drywell located in the parking area northeast of the Autohaus building. The drywell was connected to the shop floor drain in the Autohaus building. An interim remedial measure (IRM), consisting of drywell and soil removal, was conducted in 1992. The adjacent public water supply well field was temporarily closed in 1992 and permanently closed in 1995 for reasons not connected to the Autohaus site. A post-IRM site characterization conducted in 1997 indicated that the majority of the impacted soil had been removed by the IRM. Subsequent groundwater monitoring indicated that the VOC concentration in groundwater had decreased and the areal extent of impacted groundwater had not increased.

1 EA Engineering, P.C., and its affiliate EA Science and Technology, 2009. Final Periodic Review Report (August 2007-October 2008) for the Autohaus Site, East Rochester, Monroe County, New York (NYSDEC Site No. 8-28-084). March.

The ROD, dated March 1998, prescribed a selected a remedy of No Further Action with continued monitoring in order to confirm the decreasing trend of VOC concentrations in groundwater. Currently, groundwater samples are taken annually from seven monitoring wells and are analyzed for VOCs.

1.2 POST-CLOSURE MONITORING OBJECTIVES

In accordance with the Site Management Plan (SMP) (EA, 2007)[2], environmental monitoring points will be maintained and sampled during the post-closure monitoring period. This includes collection of groundwater samples from various locations at the site. Sampling locations, methods and parameters, and other required maintenance activities, such as monitoring well installation activities, are documented in the SMP. It is anticipated that during the course of the work assignment, the SMP will be periodically re-evaluated based on the data collected at the site so that the monitoring plan may be refined to address site-specific issues.

The objectives of the monitoring program are to:

- Collect representative groundwater samples in order to confirm the current trend of declining groundwater contaminant concentrations in the monitoring wells

- Evaluate the data to determine whether any potential impacts may be occurring that could affect human health or the environment.

1.2.1 Previous Recommendations

Based upon the results of the 2007 through 2009 annual monitoring events, the PRR issued in January 2010 recommended changes to the annual monitoring program. Based on collected data presented in the PRR, the NYSDEC requested the installation of two additional groundwater monitoring wells to sufficiently determine onsite groundwater flow and the completion of one additional round of groundwater sampling to confirm the general downward trend of concentrations of benzene, toluene, ethylbenzene, and toluene (BTEX) and solvent-related contaminant concentrations within on-site groundwater.

In order to address the previous recommendations, two groundwater monitoring wells were installed in December 2010 to evaluate on-site groundwater flow. The monitoring wells installed in December 2010 were screened at intervals consistent with monitoring well GP-09 in order to assess groundwater flow within a specific portion of the overburden aquifer.

1.3 PERIODIC REVIEW REPORT

The purpose of this PRR is to summarize the results of the December 2010 groundwater

2 EA Engineering, P.C., and its affiliate EA Science and Technology, 2007. Site Management Plan for the Autohaus Site, East Rochester, Monroe County, New York (NYSDEC Site No. 828084). October.

sampling event, monitoring well installation, and annual groundwater gauging; and to provide sufficient documentation that the remedy remains in place, is performing properly and effectively, and is protective of public health and the environment. This report would also document any problems or changes necessary for the site to be in compliance with the SMP including removal of institutional controls/engineering controls that are no longer applicable, modifications in monitoring, as applicable, or including a Corrective Action Work Plan and schedule, as necessary. A completed Institutional and Engineering Controls Certification Form is provided in Appendix A.

1.4 REPORT ORGANIZATION

A summary of field activities and results including groundwater monitoring well installation and groundwater sampling and analysis is included in Sections 2 and 3. Section 4 presents the results of the site management to date. Analytical results are summarized in table format. Section 5 presents recommendations for future site management.

The following are provided as appendixes:

- **Appendix A**—Institutional and Engineering Controls Certification Form
- **Appendix B**—Daily Field Report
- **Appendix C**—Soil Boring Logs
- **Appendix D**—Groundwater Sampling Forms
- **Appendix E**—Analytical Forms Is.

2. MONITORING WELL INSTALLATION

To sufficiently assess groundwater flow within the on-site overburden aquifer, the installation of two additional on-site groundwater monitoring wells was previously recommended and discussed with the NYSDEC project manager. The following sections describe the procedures used to install and develop the additional groundwater monitoring wells in December 2010.

2.1 MONITORING WELL INSTALLATION

Based on previously reported data while the public well field to the northwest of the site was in operation, groundwater flowed in a westerly direction across the site. Following the abandonment of the well field in 1995, groundwater flow reverted to pre-pumping conditions with flow to the north/northeast. The monitoring well array for the site was put in place during the operational phase of the well field and did not provide a monitoring point downgradient to the northeast of the original area of contamination. In accordance with the SMP and based on discussions with the NYSDEC, two additional groundwater monitoring wells (MW-11 and MW-12) were installed on 21 December 2010. An EA field geologist observed the drilling and installation of the monitoring well according to the procedures described below. The daily field report is provided in Appendix B. The soil boring logs and monitoring well construction diagrams are provided in Appendix C. The locations of the new monitoring wells are illustrated in Figure 2.

2.1.1 Monitoring Well Installation Method

Two monitoring wells were installed on 21 December 2010 by Nothnagle Drilling Inc. (Nothnagle) of Scottsville, New York. The shallow groundwater monitoring wells were installed in order to further assess onsite groundwater flow, as previous gauging events provided inconclusive groundwater flow direction data. The monitoring wells were installed with screened intervals similar to previously installed monitoring well GP-09 in order to gauge flow within a specific overburden aquifer.

The two monitoring wells were installed approximately 30 ft below ground surface (bgs) and screened to intersect groundwater at a depth similar to GP-09. Each monitoring well was installed using a 3.25-in. inner diameter (ID) hollow-stem auger. Macro-cores and photoionization detector (PID) readings were recorded for the entire well boring. Groundwater was encountered within the borings at approximately 6.5 ft bgs.

The bottom of the well screen was fitted with a new 1 in. well cap. The monitoring wells were constructed with 10 ft of new 1-in. ID threaded, flush-joint Schedule 40 polyvinyl chloride (PVC) machine-slotted (slot size 0.010 in.) well screen and an appropriate length of new 1-in. ID PVC riser pipe to ground surface.

After the well screen and riser pipe were positioned at the desired depth, the annular space between the borehole and the PVC well screen was packed with clean Morie #0 sand. The augers were raised while the filter pack was set, and the depth to the sand pack inside the augers was measured continuously to ensure that no air pockets or bridging formed within the annular space. The top of the filter packs extended approximately 2 ft above the top of the screen. A 3-ft bentonite chip seal was set above the filter packs and hydrated. The remaining annular space was Morie #0 sand to grade. The wells were finished with a protective steel flush-mount casing and cover.

2.1.2 Monitoring Well Development

At the request of the NYSDEC representative, monitoring well development was completed approximately 24-hours following installation of the wells. Monitoring well development was completed on 22 December 2010 using pumping techniques to remove 5 well volumes of purge water. This technique was utilized to allow for groundwater sample collection on the same day.

3. GROUNDWATER MONITORING ACTIVITIES

Following the installation of the new groundwater monitoring wells, the annual groundwater sampling and gauging activities were completed by EA, in accordance with the SMP. The following sections summarize the field activities which took place on 22 December 2010.

3.1 MONITORING WELL GAUGING/GROUNDWATER FLOW

Prior to the start of the groundwater sampling event, water level measurements were taken from each monitoring location to prepare a groundwater contour map and evaluate groundwater flow patterns. In addition, an oil/water interface probe was used to measure non-aqueous phase liquid (NAPL) thickness (if any) in the groundwater monitoring locations. Monitoring well and piezometer locations are illustrated in Figure 2.

Concurrent with the monitoring well gauging, a cursory inspection of each monitoring well was performed in order to determine evidence of vandalism or other damage to the wells. During this inspection, it was noted that monitoring well MW-09 had been damaged and was not in functional condition. As such, no gauging or sampling activities could be performed on the monitoring well.

3.2 GROUNDWATER SAMPLING AND ANALYSIS

The site monitoring wells were sampled in accordance with the SMP during the annual monitoring events. A total of seven groundwater samples were collected during this annual sampling event. Each well was purged using low-flow techniques (peristaltic pump) and water quality readings were allowed to stabilize prior to sample collection. Samples were collected in accordance with procedures outlined in the SMP utilizing a dedicated bailer. Samples were submitted to Life Science Laboratories of East Syracuse, New York for analysis of VOCs using U.S. Environmental Protection Agency (USEPA) Method 8260B in accordance with the NYSDEC Analytical Services Protocol. Daily field reports are included in Appendix B. Groundwater sampling forms are provided in Appendix D.

4. SITE MANAGEMENT RESULTS

This section presents the results of the field sampling activities conducted during the December 2010 groundwater monitoring well installation and annual groundwater sampling event. A summary of the results of the site management program to date is also presented.

4.1 GROUNDWATER ELEVATIONS

Groundwater elevations were calculated based on data from the shallow monitoring wells and piezometer. Water elevation data for each sampling event are summarized in the table below:

Monitoring Well / Piezometer	Measuring Point Elevation (ft AMSL)	Water Elevation (ft AMSL)			
		October 2007	October 2008	April 2009	December 2010
MW-01	419.24	410.21	410.04	410.84	409.00
MW-08S	420.40	408.14	407.77	410.40	408.26
MW-08D	421.13	405.71	405.13	406.93	405.25
MW-09	430.78	406.05	405.48	406.15	---[a]
MW-10	418.13	409.53	409.12	410.83	408.47
GP-09	418.35	405.83	405.19	406.37	405.50
MW-11	417.45	---[b]	---[b]	---[b]	405.96
MW-12	417.93	---[b]	---[b]	---[b]	406.64

(a) Monitoring well MW-09 observed to be unservicable during December 2010 gauging event.
(b) Monitoring wells MW-11 and MW-12 installed prior to December 2010 gauging event

NOTE: AMSL = Above mean sea level

The elevations of the shallow overburden monitoring wells were used to construct a groundwater flow map for each annual sampling event (Figures 3, 4, 5, and 6). Based on the results of historic gauging, shallow groundwater flows were estimated to be generally to the north-northwest at the site. This indicated that groundwater appeared to be flowing locally towards the historic well field, and not towards the north-northeast as identified in the ROD. Based on the available data, there appeared to be a slight groundwater divide in the center of the site with groundwater moving to the north and south of the divide.

After groundwater gauging completed in December 2010, groundwater flow appears to be better delineated with a slight north/south divide (Figure 6) and flow radiating outward. These contours are similar to previously collected groundwater elevation data which did not provide spatially complete data and therefore provided incomplete contours. As previously determined in the ROD, groundwater flow in the vicinity of the former drywell is to the north/northeast. However, groundwater also flows to the south and, across a steeper gradient, to the north towards GP-09. This localized sink could be the result of the previously completed excavation and backfill of the former drywell. The change in estimated groundwater flow direction appears to be the result of sufficient monitoring point location, which was completed with the installation of monitoring

wells MW-11 and MW-12 in December 2010. The estimated flow direction based upon the gauging data collected in December 2010 is illustrated in Figure 6.

4.2 GROUNDWATER ANALYTICAL DATA

Analytical results for aqueous and associated quality assurance/quality control (QA/QC) samples collected from site related monitoring wells were compared to NYSDEC Ambient Water Quality Standards (AWQS) and guidance values from the Division of Water and Technical and Operational Guidance Series 1.1.1 (August 1999) for Class GA groundwater. Analytical results from each annual sampling event are summarized in Tables 1 through 4 and illustrated on Figure 7.

Several VOCs have been detected during the 2007-2010 annual monitoring events with selected analytes sporadically detected greater than their corresponding AWQS. However, only one VOC, 1,2-dichlorobenzene, was consistently detected greater than the AWQS and only at one sampling location (GP-09).

4.2.1 December 2010 Analytical Data

Six VOCs were detected greater than their respective AWQS during the December 2010 annual sampling event at one location (GP-09).

- Benzene (1.44 µg/L) was detected greater than its AWQS of 1 µg/L
- 1,2-Dichlorobenzene (80.2 µg/L) was detected greater than its AWQS of 5 µg/L
- 1,4- Dichlorobenzene (3.53 µg/L) was detected greater than its AWQS of 3 µg/L
- Ethylbenzene (6.7µg/L) was detected greater than its AWQS of 5 µg/L
- Total xylenes (24 µg/L) were detected greater than their AWQS of 5 µg/L.

5. CONCLUSIONS AND RECOMMENDATIONS

Based upon the current SMP and sampling results from 2010 annual monitoring event, this section provides conclusions and recommendations for future site management activities in comparison to previous sampling events and historical site data. Any significant changes recommended and approved by the NYSDEC will be incorporated into an amended SMP.

5.1 CONCLUSIONS

5.1.1 Groundwater Gauging

Based on the results of historic annual gauging, shallow groundwater flows were generally believed to be to the north-northwest at the site. However, following the installation of two additional monitoring wells (MW-11 and MW-12), gauging completed in December 2010 indicates that on-site groundwater flow radiates from a slight groundwater divide. The general flow direction is to the northeast, consistent with the ROD, and to the north/northwest in the vicinity of the former drywell. The estimated groundwater surface derived from the December 2010 gauging event indicates that previously derived contours were incomplete, but shared a similar pattern and provide evidence that hydraulic conditions at the site have not changed. The installation of the additional monitoring wells helped to provide a more complete estimate of the groundwater surface and flow directions at the site. However, it is noted that small localized sinks or divides could impact groundwater velocity and not be captured by the existing monitoring well network.

During the well gauging and inspection, monitoring well MW-09 was observed to be damaged and unserviceable. This well was initially installed as an early detection well when the East Rochester Well field to the west of the site was in operation. The steel protective casing was bent and the PVC riser was crushed and disconnected from the remaining screened well. Additionally, the pavement surrounding the flush mount for GP-09 is cracked resulting in a slight depression leading to accumulation of surface water in the well casing

5.1.2 Groundwater Monitoring

Based on the annual groundwater sampling analytical data collected to date, eight VOCs (i.e., benzene, 1,2-dibromo-3-chloropropane, 1,2-dichlorobenzene, 1,4-dichlorobenzene, 1,1-dichloroethane, ethylbenzene, toluene, and total xylene) have been detected in on-site monitoring wells at concentrations greater than AWQS. The majority of these recent detections were in samples from one well, GP-09, and are summarized as follows:

- 1,2-Dibromo-3-chloropropane was detected greater than its AWQS value of 0.04 µg/L within GP-09 (5.42 µg/L) during the October 2008 annual sampling event. This analyte was not detected greater than laboratory reporting limits during any other annual

sampling event or in any historical data provided by the NYSDEC. Additionally, this compound was flagged as an estimated value. Because this compound was detected during only one sampling event, it is considered to be a contaminant of concern at this time.

- 1,2-Dichlorobenzene was detected within groundwater near the former drywell at a maximum concentrations of 52 µg/L during the post-IRM site characterization completed in 1997. Recent sampling data from well GP-09 appears to indicate that concentrations of this compound is not decreasing as the analyte has been detected at levels exceeding AWQS during each annual sampling event.

- 1,4-Dichlorobenzene was detected at relatively low concentrations in each annual sampling event. The most recent groundwater sampling results reported 1,4-dichlorobenzene concentrations in exceedence of its AWQS of 3 µg/L in 2009 (3.27 µg/L) and 2010 (3.53 µg/L). Historical site data indicate a maximum detection in groundwater of 9 µg/L during the 1997 post-IRM site characterization. Due to the relatively low historical levels of this compound and the slight exceedence of AWQS noted during 2009 annual sampling, 1,4-dichlorobenzene is not considered a contaminant of concern at this time.

- Ethylbenzene historically was detected in groundwater at a maximum concentration of 53.7 µg/L in well MW-01 (July 1990). Recent annual monitoring has shown a decrease in concentrations within on-site groundwater. While slight exceedences to its AWQS of 5 µg/L were observed within GP-09 during 2007 (6.03 µg/L), 2009 (7.470 µg/L) and 2010 (6.7 µg/L) annual sampling events, the overall trend of decreasing concentrations has continued to date.

- Toluene was detected within on-site groundwater at a maximum concentration of 944 µg/L within MW-01 in July of 1990. Annual monitoring has shown a decrease in concentrations within on-site groundwater. While exceedences to its AWQS of 5 µg/L were observed within GP-09 during 2007 (9.57 µg/L) and 2009 (21.7 µg/L) annual sampling events, the 2010 annual event indicated a concentration of 4.96 µg/L. Overall, it appears that concentrations of toluene have decreased to acceptable levels.

- Total xylenes concentrations were detected at a maximum concentration of 347 µg/L within MW-01 in July 1990. Annual monitoring has shown a decrease in concentrations within on-site groundwater. While exceedences to its AWQS of 5 µg/L were observed within GP-09 during 2007 (27.3 µg/L), 2009 (37.9 µg/L), and 2010 (24 µg/L) annual sampling events, the general trend of decreasing concentrations has continued to date.

No analytes were detected at the remaining monitoring wells at concentrations in exceedence of their applicable AWQS values during the December 2010 annual monitoring event.

Based upon historical and recent site data, it appears that the concentration of most analytes detected within onsite groundwater have decreased over time; with the exception of 1,2-dichlorobenzene, which has fluctuated between annual sampling events and was most recently detected greater than the previous maximum concentration.

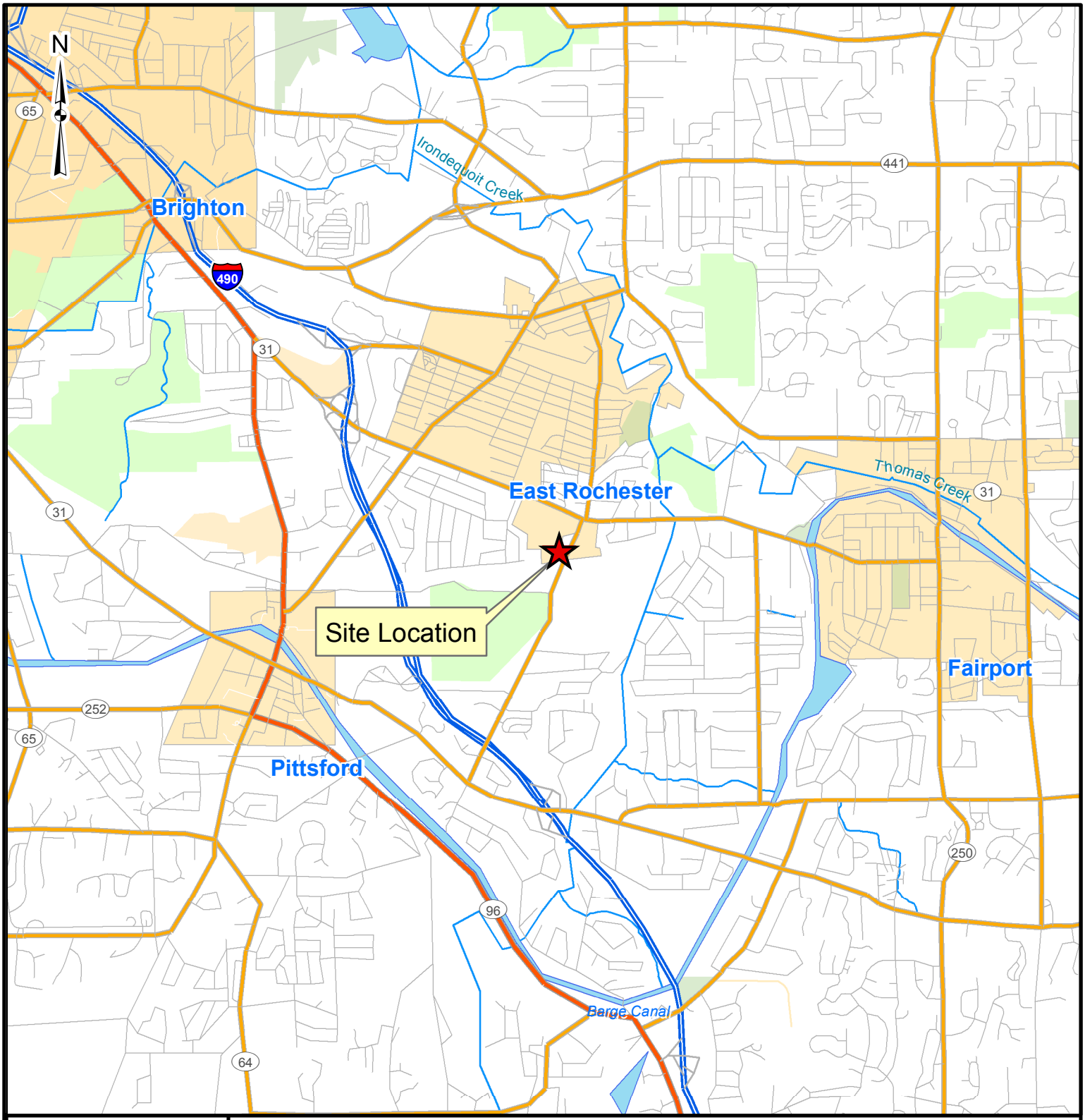
5.2 RECOMMENDATIONS

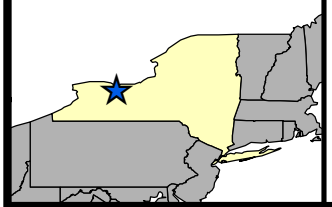
Based upon the data collected to date, the following recommendations are made:

- **Additional Groundwater Sampling:** Based upon analytical data collected to date, this site currently meets the goals stated in the ROD of confirming the trend of declining groundwater contaminant concentrations within the wells at the site and may be a candidate for removal from the Registry. However, some contaminants remain within groundwater at levels slightly exceeding AWQS standards for Class GA groundwater. EA recommends that additional annual groundwater sampling be completed to further assess the trend of groundwater contamination at the site and justify eventual delisting of the site from the Registry. The fluctuating concentrations at GP-09 could reflect changing groundwater elevations that have varied by as much as 1 foot between sampling events. Seasonal groundwater fluctuation could provide for interaction between impacted soil and groundwater resulting in small localized releases of contaminants. Additionally, the potential exists for surface water infiltration due to a damaged casing at MW-09 and cracked pavement and a localized depression at GP-09 as described below.

- **Damaged Monitoring Well MW-09:** MW-09 was previously installed as an early detection well for the well field historically located to the west of the site. During the December 2010 monitoring event, MW-09 was observed to be damaged and was not able to be gauged or sampled. Due to the proximity of the monitoring well to the site and the groundwater flow direction identified during the December 2010 gauging event, EA believes that replacement of this well is not necessary at this time. However, the damaged well should be either replaced or decommissioned in accordance with NYSDEC CP-43: Groundwater Monitoring Well Decommissioning Policy. Additionally, at GP-09, the cracked pavement has created a slight depression surrounding the flush-mounted protective casing. Surface run-off has been observed to be collecting in the subsurface casing and could be leaking into the well. Replacing the flush-mount protective casing is recommended to mitigate against surface run-off potentially influencing groundwater.

- **Groundwater gauging/flow direction:** Prior to the 2010 gauging event, flow direction data derived from field sampling and gauging events appeared inconclusive. With the installation of two additional groundwater monitoring wells in December 2010, EA has confirmed a flow direction to the north-northeast, as previously identified in the ROD. EA recommends additional on-site gauging activities to further confirm groundwater flow direction.





Legend

- Urban Areas
- Expressway/Interstate
- Highway
- Major Road
- Local Road
- Rivers (Local)
- Water (Local)
- National Park or Forest
- State Park or Forest

0 2

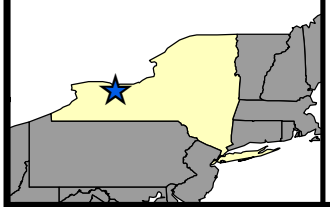
Miles

Source: ESRI STREETMAP 2005

AUTOHAUS OF ROCHESTER SITE (828084)
PERIODIC REVIEW REPORT
EAST ROCHESTER, NEW YORK

FIGURE 1
SITE LOCATION

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	
CJS	DCC	DCC	CJS	AS SHOWN	MAY 2011	14474.05	\GIS\ Figure1_Loc.mxd



Legend

Property Boundary

Monitoring well

0 100

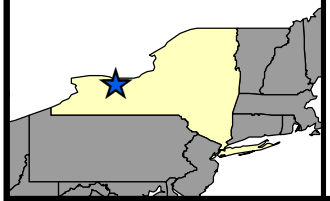
Feet

Source: NYS Office of Cyber Security and Critical Infrastructure Coordination (CSCIC)

AUTOHAUS OF ROCHESTER SITE (828084)
PERIODIC REVIEW REPORT
EAST ROCHESTER, NEW YORK

FIGURE 2
GROUNDWATER MONITORING LOCATIONS

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	
CJS	DCC	DCC	CJS	AS SHOWN	MAY 2011	14474.05	\GIS\ Figure_2mxd



Legend

Property Boundary

Monitoring well

Inferred Groundwater Flow Direction

Groundwater Elevation Contour (Ft AMSL)

0 100

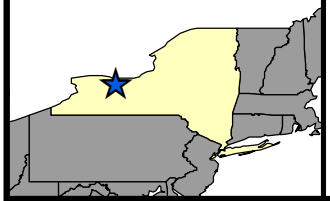
Feet

Source: NYS Office of Cyber Security and Critical Infrastructure Coordination (CSCIC)

AUTOHAUS OF ROCHESTER SITE (828084)
PERIODIC REVIEW REPORT
EAST ROCHESTER, NEW YORK

FIGURE 3
GROUNDWATER ELEVATIONS
OCTOBER 2007

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	
CJS	DCC	DCC	CJS	AS SHOWN	MAY 2011	14474.05	\GIS\ Figure_3.mxd



Legend

Property Boundary

Monitoring well

Inferred Groundwater Flow Direction

Groundwater Elevation Contour (Ft AMSL)

0 100

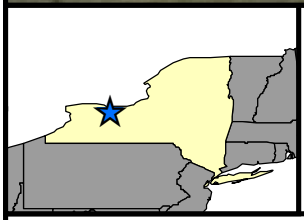
Feet

Source: NYS Office of Cyber Security and Critical Infrastructure Coordination (CSCIC)

AUTOHAUS OF ROCHESTER SITE (828084)
PERIODIC REVIEW REPORT
EAST ROCHESTER, NEW YORK

FIGURE 4
GROUNDWATER ELEVATIONS
OCTOBER 2008

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	
CJS	DCC	DCC	CJS	AS SHOWN	MAY 2011	14474.05	\GIS\ FIGURE_4.MXD



Legend

Property Boundary

Monitoring well

Inferred Groundwater Flow Direction

Groundwater Elevation Contour (Ft AMSL)

0 50 100

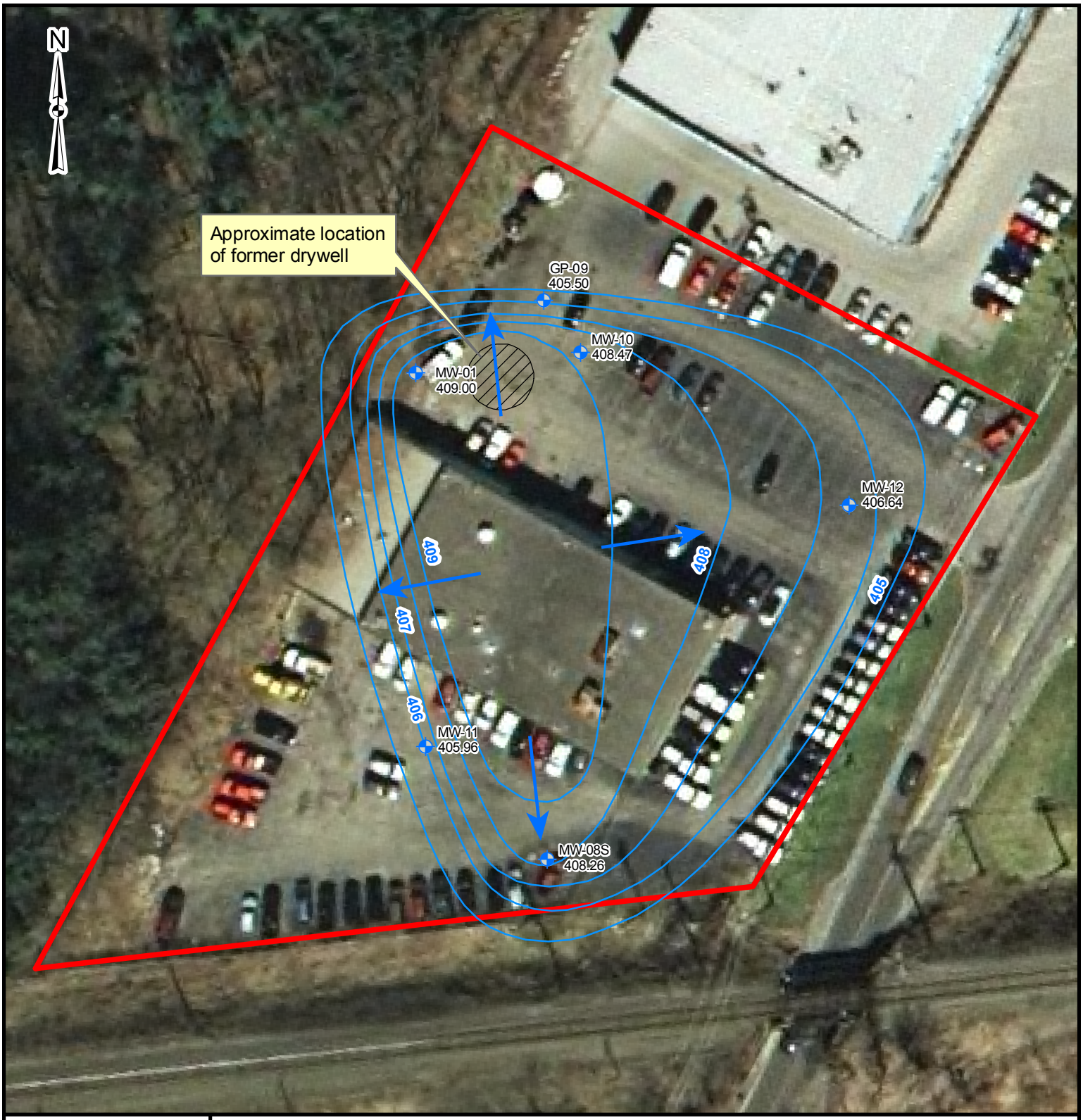
Feet

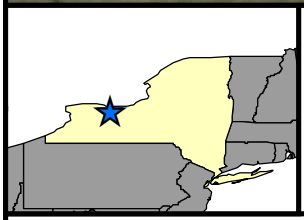
Source: NYS Office of Cyber Security and Critical Infrastructure Coordination (CSCIC)

AUTOHAUS OF ROCHESTER SITE (828084)
PERIODIC REVIEW REPORT
EAST ROCHESTER, NEW YORK

FIGURE 5
GROUNDWATER ELEVATIONS
APRIL 2009

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	
CJS	DCC	DCC	CJS	AS SHOWN	MAY 2011	14474.05	/GIS/ FIGURE5.MXD





Legend

- Property Boundary
- Monitoring well
- Inferred Groundwater Flow Direction
- Groundwater Elevation Contour (Ft AMSL)

0 100

Feet

Source: NYS Office of Cyber Security and Critical Infrastructure Coordination (CSCIC)

AUTOHAUS OF ROCHESTER SITE (828084)
PERIODIC REVIEW REPORT
EAST ROCHESTER, NEW YORK

FIGURE 6
GROUNDWATER ELEVATIONS
DECEMBER 2010

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	
CJS	DCC	SAB	CJS	AS SHOWN	MAY 2011	14474.05	/GIS/ FIGURE6.MXD

MW-09*	Oct-07	Oct-08	Apr-09
	µg/L	µg/L	µg/L
Acetone	ND	ND	1 J
Benzene	1.19	ND	0.51
1,2-Dichlorobenzene	2.6	0.16 J	2.92
1,1-Dichloroethane	5.77	2.7	3.42
1,2-Dichloropropane	ND	ND	0.16 J
Ethylbenzene	1.38	ND	1.05
Isopropylbenzene	0.69	ND	ND
Methyl tert-butyl ether	ND	0.75 J	0.52 J
Xylenes (total)	1.94	ND	1.34

GP-09	Oct-07	Oct-08	Apr-09	Dec-10
	µg/L	µg/L	µg/L	µg/L
Acetone	5.16 J	4.51 J	7.92 J	9.71 J
Benzene	1.16	0.35 J	1.22	1.44
2-Butanone	ND	ND	3.16 J	1.33 J
Chlorobenzene	0.59	ND	ND	0.75
Chloroethane	0.58 J	ND	1.04 J	0.61 J
Chloroform	ND	ND	ND	0.38 J
1,2-Dibromo-3-chloropropane	ND	5.42 J	ND	ND
1,2-Dichlorobenzene	46.7 D	9.36	73.2 D	80.2
1,3-Dichlorobenzene	ND	ND	0.12 J	0.17 J
1,4-Dichlorobenzene	1.8	0.44 J	3.27	3.53
1,1-Dichloroethane	1.68	0.61	1.77	2.46
cis-1,2-Dichloroethene	0.22 J	ND	019 J	0.12 J
1,2-Dichloropropane	0.27 J	ND	0.26 J	ND
Ethylbenzene	6.03	0.71	7.47	6.7
Isopropylbenzene	0.84	ND	0.89	1.4
Methyl tert-butyl ether	1.73	ND	1.34	1.51
4-Methyl-2-pentanone	ND	ND	1.09 J	1.05 J
Methylene chloride	0.15 J	ND	0.27 J	0.39 J
Toluene	9.57	3	21.7	4.96
Trichloroethene	0.32 J	ND	0.51	0.81
Xylenes (total)	27.3	4.34	37.9	24

MW-01	Oct-07	Oct-08	Apr-09	Dec-10
	µg/L	µg/L	µg/L	µg/L
Acetone	ND	ND	2.01 J	ND
1,2-Dichlorobenzene	1.7	0.25	1.71	0.8
1,3-Dichlorobenzene	0.51	0.24	0.47 J	0.39 J
1,4-Dichlorobenzene	2.13	0.51	2.3	1.92
1,1-Dichloroethane	ND	ND	0.63	0.25 J
cis-1,2-Dichloroethene	0.5	0.26	3.43	0.28 J
Ethylbenzene	0.1	ND	0.5	ND
Isopropylbenzene	0.24	ND	0.12 J	ND
Tetrachloroethene	3.06	1.72	2.51	1.91
Toluene	ND	ND	0.12 J	ND
Trichloroethene	0.23	0.24	0.36 J	0.56
Xylenes (total)	ND	ND	1.4	ND

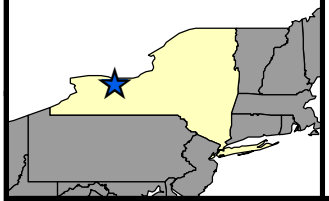
MW-12	Dec-10
	µg/L
Dichlorodifluoromethane	0.19 J

MW-10	Oct-07	Oct-08	Apr-09	Dec-10
	µg/L	µg/L	µg/L	µg/L
Bromodichloromethane	ND	ND	ND	0.46 J
Chloroform	ND	ND	0.52	2.87

MW-11	Dec-10
	µg/L
Toluene	0.13 J

MW-08S
No detections

MW-08D	Oct-07	Oct-08	Apr-09	Dec-10
	µg/L	µg/L	µg/L	µg/L
Acetone	ND	ND	2.53 J	ND
Bromodichloromethane	ND	ND	ND	0.15 J
Chloroform	ND	ND	ND	0.19 J
Carbon disulfide	ND	ND	0.12 J	ND
Dibromochloromethane	ND	ND	ND	1.31



Legend

- Property Boundary
- J Detected value is an estimate
- **BOLD** Value detected is above Ambient Water Quality Standard
- ND Not Detected
- D Dilution
- Monitoring well

0 100

Feet

Source: NYS Office of Cyber Security and Critical Infrastructure Coordination (CSCIC)

AUTOHAUS OF ROCHESTER SITE (828084)
PERIODIC REVIEW REPORT
EAST ROCHESTER, NEW YORK

FIGURE 7
VOLATILE ORGANIC COMPOUNDS
IN GROUNDWATER SAMPLES

PROJECT MGR:	DESIGNED BY:	CREATED BY:	CHECKED BY:	SCALE:	DATE:	PROJECT NO:	
CJS	DCC	DCC	CJS	AS SHOWN	MAY 2011	14474.05	\GIS\ Figure_7.mxd

TABLE 1 SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER OCTOBER 2007

Parameter List USEPA Method 8260B	Sample ID	8-24-084-MW-01		8-28-084-MW-08S		8-28-084-MW-08D		8-24-084-MW-09		8-24-084-MW-10		NYSDEC Ambient Water Quality Standard Class GA (µg/L)
	Lab ID	0710091-005A		0710091-002A		0710091-003A		0710091-004A		0710091-001A		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	10/11/2007		10/11/2007		10/11/2007		10/11/2007		10/11/2007		
Acetone	µg/L	(<10)	U	(<10)	U	(<10)	U	(<10)	U	(<10)	U	50 (g)
Benzene	µg/L	(<0.5)	U	(<0.5)	U	(<0.5)	U	**1.19**		(<0.5)	U	1 (s)
Chlorobenzene	µg/L	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	5 (s)
Chloroethane	µg/L	(<1)	U	(<1)	U	(<1)	U	(<1)	U	(<1)	U	5 (s)
cis-1,2-Dichloroethene	µg/L	0.5		(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	5 (s)
1,4- Dichlorobenzene	µg/L	2.13		(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	3 (s)
1,3- Dichlorobenzene	µg/L	0.51		(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	3 (s)
1,2- Dichlorobenzene	µg/L	1.7		(<0.5)	U	(<0.5)	U	2.6		(<0.5)	U	3 (s)
1,1- Dichloroethane	µg/L	(<0.5)	U	(<0.5)	U	(<0.5)	U	**5.77**		(<0.5)	U	5 (s)
1,2- Dichloropropane	µg/L	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	1 (s)
Ethylbenzene	µg/L	0.1	J	(<0.5)	U	(<0.5)	U	1.38		(<0.5)	U	5 (s)
Isopropylbenzene	µg/L	0.24	J	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	5 (s)
Methyl tert-butyl ether	µg/L	(<1)	U	(<1)	U	(<1)	U	0.69		(<1)	U	---
Methylene chloride	µg/L	(<2)	U	(<2)	U	(<2)	U	(<2)	U	(<2)	U	5 (s)
Tetrachloroethene	µg/L	3.06		(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	5 (s)
Toluene	µg/L	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	5 (s)
Trichloroethene	µg/L	0.23	J	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	5 (s)
Xylenes (total)	µg/L	(<1)	U	(<1)	U	(<1)	U	1.94		(<1)	U	5 (s)

Parameter List USEPA Method 8260B	Sample ID	8-24-084-GP-09		8-24-084-Dup[(a)]		Trip Blank			NYSDEC Ambient Water Quality Standard Class GA (µg/L)
	Lab ID	0710091-006A		0710091-007A		0710091-008A			
	Sample Type	Groundwater		Groundwater		Groundwater			
	Sample Date	10/11/2007		10/11/2007		6/26/2007			
Acetone	µg/L	5.16	J	1.03	J	(<10)	U		50 (g)
Benzene	µg/L	**1.16**		(<0.5)	U	(<0.5)	U		1 (s)
Chlorobenzene	µg/L	0.59		(<0.5)	U	(<0.5)	U		5 (s)
Chloroethane	µg/L	0.58	J	(<1)	U	(<1)	U		5 (s)
cis-1,2-Dichloroethene	µg/L	0.22	J	(<0.5)	U	(<0.5)	U		5 (s)
1,4- Dichlorobenzene	µg/L	1.8		(<0.5)	U	(<0.5)	U		3 (s)
1,3- Dichlorobenzene	µg/L	(<0.5)	U	(<0.5)	U	(<0.5)	U		3 (s)
1,2- Dichlorobenzene	µg/L	**46.70**	D	(<0.5)	U	(<0.5)	U		3 (s)
1,1- Dichloroethane	µg/L	1.68		(<0.5)	U	(<0.5)	U		5 (s)
1,2- Dichloropropane	µg/L	0.27	J	(<0.5)	U	(<0.5)	U		1 (s)
Ethylbenzene	µg/L	**6.03**		(<0.5)	U	(<0.5)	U		5 (s)
Isopropylbenzene	µg/L	0.84		(<0.5)	U	(<0.5)	U		5 (s)
Methyl tert-butyl ether	µg/L	1.73		(<1)	U	(<1)	U		---
Methylene chloride	µg/L	0.15	J	(<2)	U	1.16	J		5 (s)
Tetrachloroethene	µg/L	(<0.5)	U	(<0.5)	U	(<0.5)	U		5 (s)
Toluene	µg/L	**9.57**		(<0.5)	U	(<0.5)	U		5 (s)
Trichloroethene	µg/L	0.32	J	(<0.5)	U	(<0.5)	U		5 (s)
Xylenes (total)	µg/L	**27.3**		(<1)	U	(<1)	U		5 (s)

(a) Duplicate was collected at 8-28-084-MW-08S

NOTE: USEPA = United States Environmental Protection Agency
NYSDEC = New State Department of Environmental Conservation
µg/L = Micrograms per Liter
U = The analyte was analyzed for, but was not detected above the sample reporting limit.
J = Analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
D = Dilution
Analytical data results provided by Life Science Laboratories. Data Validation completed by Environmental Data Validation, Inc.
Only analytes that had at least one detection from the data set are shown.
Bold values indicate that the analyte was detected above the NYSDEC AWQS. (g) Value is listed as a guidance value. (s) Value is listed as a standard value.

TABLE 2 SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER OCTOBER 2008

Parameter List USEPA Method 8260B	Sample ID	8-24-084-MW-01		8-28-084-MW-08S		8-28-084-MW-08D		8-24-084-MW-09		8-24-084-MW-10		NYSDEC Ambient Water Quality Standard Class GA (µg/L)
	Lab ID	0810111-001A		0810111-002A		0810111-003A		0810111-004A		0810111-006A		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	10/14/2008		10/14/2008		10/14/2008		10/14/2008		10/14/2008		
Acetone	µg/L	(<10)	U	(<10)	U	(<10)	U	(<10)	U	(<10)	U	50 (g)
Benzene	µg/L	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	1 (s)
1,2- Dibromo-3-chloropropane	µg/L	(<5)	U	(<5)	U	(<5)	U	(<5)	U	(<5)	U	0.04 (s)
1,4- Dichlorobenzene	µg/L	0.51		(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	3 (s)
1,2- Dichlorobenzene	µg/L	0.25	J	(<0.5)	U	(<0.5)	U	0.16	J	(<0.5)	U	3 s)
1,1- Dichloroethane	µg/L	0.24	J	(<0.5)	U	(<0.5)	U	2.7		(<0.5)	U	5 (s)
cis-1,2- Dichloroethene	µg/L	0.26	J	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	5 (s)
Ethylbenzene	µg/L	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	5 (s)
Methyl tert-butyl ether	µg/L	(<1)	U	(<1)	U	(<1)	U	0.75	J	(<1)	U	---
Tetrachloroethene	µg/L	1.72		(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	5 (s)
Toluene	µg/L	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	5 (s)
Trichloroethene	µg/L	0.24	J	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	5 (s)
Xylenes (total)	µg/L	(<1)	U	(<1)	U	(<1)	U	(<1)	U	(<1)	U	5 (s)

Parameter List USEPA Method 8260B	Sample ID	8-24-084-GP-09		8-24-084-Dup[(a)]		Trip Blank			NYSDEC Ambient Water Quality Standard Class GA (µg/L)
	Lab ID	0810111-005A		0810111-007A		0810111-008A			
	Sample Type	Groundwater		Groundwater		Groundwater			
	Sample Date	10/14/2008		10/14/2008		10/14/2008			
Acetone	µg/L	4.51	J	(<10)	U	(<10)	U		50 (g)
Benzene	µg/L	0.35	J	(<0.5)	U	(<0.5)	U		1 (s)
1,2- Dibromo-3-chloropropane	µg/L	**5.42**	J	(<5)	U	(<5)	U		0.04 (s)
1,4- Dichlorobenzene	µg/L	0.44	J	0.87		(<0.5)	U		3 (s)
1,2- Dichlorobenzene	µg/L	**9.36**		0.48	J	(<0.5)	U		3 s)
1,1- Dichloroethane	µg/L	0.61		0.29	J	(<0.5)	U		5 (s)
cis-1,2- Dichloroethene	µg/L	(<0.5)	U	0.73		(<0.5)	U		5 (s)
Ethylbenzene	µg/L	0.71		(<0.5)	U	(<0.5)	U		5 (s)
Methyl tert-butyl ether	µg/L	(<1)	U	(<1)	U	(<1)	U		---
Tetrachloroethene	µg/L	(<0.5)	U	1.8		(<0.5)	U		5 (s)
Toluene	µg/L	3		(<0.5)	U	(<0.5)	U		5 (s)
Trichloroethene	µg/L	(<0.5)	U	0.27	J	(<0.5)	U		5 (s)
Xylenes (total)	µg/L	4.34		(<1)	U	(<1)	U		5 (s)

(a) Duplicate was collected at 8-28-084-MW-01

NOTE: USEPA = United States Environmental Protection Agency
NYSDEC = New State Department of Environmental Conservation
µg/L = Micrograms per Liter
U = The analyte was analyzed for, but was not detected above the sample reporting limit.
J = Analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
Analytical data results provided by Life Science Laboratories. Data Validation completed by Environmental Data Validation, Inc.
Only analytes that had at least one detection from the data set are shown.
Bold values indicate that the analyte was detected above the NYSDEC AWQS. (g) Value is listed as a guidance value. (s) Value is listed as a standard value.

TABLE 3 SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER APRIL 2009

Parameter List USEPA Method 8260B	Sample ID	8-24-084-MW-01		8-28-084-MW-08S		8-28-084-MW-08D		8-24-084-MW-09		8-24-084-MW-10		NYSDEC Ambient Water Quality Standard Class GA (µg/L)
	Lab ID	0810111-001A		0810111-002A		0810111-003A		0810111-004A		0810111-006A		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	4/22/2009		4/22/2009		4/22/2009		4/22/2009		4/22/2009		
Acetone	µg/L	2.01	J	(<10)	U	2.53	J	1	J	(<10)	U	50 (g)
Benzene	µg/L	(<0.5)	U	(<0.5)	U	(<0.5)	U	0.51		(<0.5)	U	1 (s)
2- Butanone	µg/L	(<10)	U	(<10)	U	(<10)	U	(<10)	U	(<10)	U	---
Carbon disulfide	µg/L	(<0.5)	U	(<0.5)	U	0.12	J	(<0.5)	U	(<0.5)	U	---
Chloroethane	µg/L	(<1)	UJ	(<1)	UJ	(<1)	UJ	(<1)	UJ	(<1)	UJ	5 (s)
Chloroform	µg/L	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	0.52		7 (s)
1,2- Dichlorobenzene	µg/L	1.71		(<0.5)	U	(<0.5)	U	2.92		(<0.5)	U	3 (s)
1,3- Dichlorobenzene	µg/L	0.47	J	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	3 (s)
1,4- Dichlorobenzene	µg/L	2.3		(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	3 (s)
1,1- Dichloroethane	µg/L	0.63		(<0.5)	U	(<0.5)	U	3.42		(<0.5)	U	5 (s)
cis-1,2- Dichloroethene	µg/L	3.43		(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	5 (s)
1,2- Dichloropropane	µg/L	(<0.5)	U	(<0.5)	U	(<0.5)	U	0.16	J	(<0.5)	U	5 (s)
Ethylbenzene	µg/L	0.5		(<0.5)	U	(<0.5)	U	1.05		(<0.5)	U	5 (s)
Isopropylbenzene	µg/L	0.12	J	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	5 (s)
Methyl tert-butyl ether	µg/L	(<1)	U	(<1)	U	(<1)	U	0.52	J	(<1)	U	10 (g)
4- Methyl-2-pentanone	µg/L	(<5)	U	(<5)	U	(<5)	U	(<5)	U	(<5)	U	---
Methylene chloride	µg/L	(<2)	U	(<2)	U	(<2)	U	(<2)	U	(<2)	U	5 (s)
Tetrachloroethene	µg/L	2.51		(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	5 (s)
Toluene	µg/L	0.12	J	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	5 (s)
Trichloroethene	µg/L	0.36	J	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	5 (s)
Xylenes (total)	µg/L	1.4		(<1)	U	(<1)	U	1.34		(<1)	U	5 (s)

Parameter List USEPA Method 8260B	Sample ID	8-24-084-GP-09		8-28-084-Dup01[(a)]		Trip Blank						NYSDEC Ambient Water Quality Standard Class GA (µg/L)
	Lab ID	0810111-005A		0904141-007A		0810111-008A						
	Sample Type	Groundwater		Groundwater		Groundwater						
	Sample Date	4/22/2009		4/22/2009		4/22/2009						
Acetone	µg/L	7.92	J	1.45	J	(<10)	U					50 (g)
Benzene	µg/L	**1.22**		(<0.5)	U	(<0.5)	U					1 (s)
2- Butanone	µg/L	3.16	J	(<10)	U	(<10)	U					---
Carbon disulfide	µg/L	(<0.5)	U	(<0.5)	U	(<0.5)	U					---
Chloroethane	µg/L	1.04	J	(<1)	UJ	(<1)	U					5 (s)
Chloroform	µg/L	(<0.5)	U	(<0.5)	U	(<0.5)	U					7 (s)
1,2- Dichlorobenzene	µg/L	**73.2**	D	1.83		(<0.5)	U					3 (s)
1,3- Dichlorobenzene	µg/L	0.12	J	0.5		(<0.5)	U					3 (s)
1,4- Dichlorobenzene	µg/L	**3.27**		2.43		(<0.5)	U					3 (s)
1,1- Dichloroethane	µg/L	1.77		0.62		(<0.5)	U					5 (s)
cis-1,2- Dichloroethene	µg/L	0.19	J	3.42		(<0.5)	U					5 (s)
1,2- Dichloropropane	µg/L	0.26	J	(<0.5)	U	(<0.5)	U					5 (s)
Ethylbenzene	µg/L	**7.47**		0.51		(<0.5)	U					5 (s)
Isopropylbenzene	µg/L	0.89		0.13	J	(<0.5)	U					5 (s)
Methyl tert-butyl ether	µg/L	1.34		(<1)	U	(<1)	U					10 (g)
4- Methyl-2-pentanone	µg/L	1.09	J	(<5)	U	(<5)	U					---
Methylene chloride	µg/L	0.27	J	0.18	J	(<2)	U					5 (s)
Tetrachloroethene	µg/L	(<0.5)	U	2.68		(<0.5)	U					5 (s)
Toluene	µg/L	**21.7**		0.13	J	(<0.5)	U					5 (s)
Trichloroethene	µg/L	0.51		0.37	J	(<0.5)	U					5 (s)
Xylenes (total)	µg/L	**37.9**		1.46		(<1)	U					5 (s)

(a) Duplicate was collected at 8-28-084-MW-01

NOTE: USEPA = United States Environmental Protection Agency
NYSDEC = New State Department of Environmental Conservation
µg/L = Micrograms per Liter
U = The analyte was analyzed for, but was not detected above the sample reporting limit.
J = Analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
D = Dilution
Analytical data results provided by Life Science Laboratories. Data Validation completed by Environmental Data Validation, Inc.
Only analytes that had at least one detection from the data set are shown.
Bold values indicate that the analyte was detected above the NYSDEC AWQS. (g) Value is listed as a guidance value. (s) Value is listed as a standard value.

TABLE 4 SUMMARY OF VOLATILE ORGANIC COMPOUNDS IN GROUNDWATER DECEMBER 2010

Parameter List USEPA Method 8260B	Sample ID	8-24-084-MW-01		8-28-084-MW-08S		8-28-084-MW-08D		8-24-084-MW-10		8-24-084-MW-11		NYSDEC Ambient Water Quality Standard Class GA (µg/L)
	Lab ID	K1012255-003A		K1012255-004A		K1012255-005A		K1012255-002A		K1012255-006A		
	Sample Type	Groundwater		Groundwater		Groundwater		Groundwater		Groundwater		
	Sample Date	12/22/2010		12/22/2010		12/22/2010		12/22/2010		12/22/2010		
1,1-Dichloroethane	µg/L	0.25	J	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	5 (s)
1,2-Dichlorobenzene	µg/L	0.8		(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	3 (s)
1,3-Dichlorobenzene	µg/L	0.39	J	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	3 (s)
1,4-Dichlorobenzene	µg/L	1.92		(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	3 (s)
2-Butanone	µg/L	(<10)	U	(<10)	U	(<10)	U	(<10)	U	(<10)	U	---
4-Methyl-2-pentanone	µg/L	(<5)	U	(<5)	U	(<5)	U	(<5)	U	(<5)	U	---
Acetone	µg/L	(<10)	U	(<10)	U	(<10)	U	(<10)	U	(<10)	U	50 (g)
Benzene	µg/L	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	1 (s)
Bromodichloromethane	µg/L	(<0.5)	U	(<0.5)	U	0.15	J	0.46	J	(<0.5)	U	50 (g)
Chlorobenzene	µg/L	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	5 (s)
Chloroethane	µg/L	(<1)	U	(<1)	U	(<1)	U	(<1)	U	(<1)	U	5 (s)
Chloroform	µg/L	(<0.5)	U	(<0.5)	U	0.19	J	2.87		(<0.5)	U	7 (s)
cis-1,2-Dichloroethene	µg/L	0.28	J	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	5 (s)
Dibromochloromethane	µg/L	(<0.5)	U	(<0.5)	U	1.31		(<0.5)	U	(<0.5)	U	50 (s)
Dichlorodifluoromethane	µg/L	(<1)	U	(<1)	U	(<1)	U	(<1)	U	(<1)	U	5 (s)
Ethylbenzene	µg/L	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	5 (s)
Isopropylbenzene	µg/L	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	5(s)
Methyl tert-butyl ether	µg/L	(<1)	U	(<1)	U	(<1)	U	(<1)	U	(<1)	U	10 (g)
Methylene chloride	µg/L	(<2)	U	(<2)	U	(<2)	U	(<2)	U	(<2)	U	5 (s)
Tetrachloroethene	µg/L	1.91		(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	5 (s)
Toluene	µg/L	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	0.13	J	5 (s)
Trichloroethene	µg/L	0.56		(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U	5 (s)
Xylenes (total)	µg/L	(<1)	U	(<1)	U	(<1)	U	(<1)	U	(<1)	U	5 (s)

Parameter List USEPA Method 8260B	Sample ID	8-24-084-MW-12		8-24-084-GP-09		8-28-084-MW-DUP[(a)]		Trip Blank			NYSDEC Ambient Water Quality Standard Class GA (µg/L)
	Lab ID	K1012255-007A		K1012255-001A		K1012255-008A		K1012255-009A			
	Sample Type	Groundwater		Groundwater		QA/QC Duplicate		QA/QC Trip Blank			
	Sample Date	12/22/2010		12/22/2010		12/22/2010		12/22/2010			
1,1-Dichloroethane	µg/L	(<0.5)	U	2.46		0.25	J	(<0.5)	U		5 (s)
1,2-Dichlorobenzene	µg/L	(<0.5)	U	**80.2**		0.71		(<0.5)	U		3 (s)
1,3-Dichlorobenzene	µg/L	(<0.5)	U	0.17	J	0.39	J	(<0.5)	U		3 (s)
1,4-Dichlorobenzene	µg/L	(<0.5)	U	**3.53**		1.87		(<0.5)	U		3 (s)
2-Butanone	µg/L	(<10)	U	1.33	J	(<10)	U	(<10)	U		---
4-Methyl-2-pentanone	µg/L	(<5)	U	1.05	J	(<5)	U	(<5)	U		---
Acetone	µg/L	(<10)	U	9.71	J	(<10)	U	(<10)	U		50 (g)
Benzene	µg/L	(<0.5)	U	**1.44**		(<0.5)	U	(<0.5)	U		1 (s)
Bromodichloromethane	µg/L	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U		50 (g)
Chlorobenzene	µg/L	(<0.5)	U	0.75		(<0.5)	U	(<0.5)	U		5 (s)
Chloroethane	µg/L	(<1)	U	0.61	J	(<1)	U	(<1)	U		5 (s)
Chloroform	µg/L	(<0.5)	U	0.38	J	(<0.5)	U	0.13	J		7 (s)
cis-1,2-Dichloroethene	µg/L	(<0.5)	U	0.12	J	0.27	J	(<0.5)	U		5 (s)
Dibromochloromethane	µg/L	(<0.5)	U	(<0.5)	U	(<0.5)	U	(<0.5)	U		50 (s)
Dichlorodifluoromethane	µg/L	0.19	J	(<1)	U	(<1)	U	(<1)	U		5(s)
Ethylbenzene	µg/L	(<0.5)	U	**6.7**		(<0.5)	U	(<0.5)	U		5(s)
Isopropylbenzene	µg/L	(<0.5)	U	1.4		(<0.5)	U	(<0.5)	U		5(s)
Methyl tert-butyl ether	µg/L	(<1)	U	1.51		(<1)	U	(<1)	U		10 (g)
Methylene chloride	µg/L	(<2)	U	0.39	J	(<2)	U	0.41	J		5 (s)
Tetrachloroethene	µg/L	(<0.5)	U	0.11		1.87		0.5	J		5 (s)
Toluene	µg/L	(<0.5)	U	4.96		(<0.5)	U	(<0.5)	U		5 (s)
Trichloroethene	µg/L	(<0.5)	U	0.81		0.55		(<0.5)	U		5 (s)
Xylenes (total)	µg/L	(<1)	U	**24**		(<1)	U	(<1)	U		5 (s)

(a) Duplicate was collected at 8-28-084-MW-01

NOTE: USEPA = United States Environmental Protection Agency
NYSDEC = New State Department of Environmental Conservation
µg/L = Micrograms per Liter
U = The analyte was analyzed for, but was not detected above the sample reporting limit.
J = Analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
Analytical data results provided by Life Science Laboratories.
Only analytes that had at least one detection from the data set are shown.
Bold values indicate that the analyte was detected above the NYSDEC AWQS. (g) Value is listed as a guidance value. (s) Value is listed as a standard value.

Appendix A

Institutional and Engineering Controls Certification Forms

Appendix B

Daily Field Reports

DAILY OBSERVATION REPORT **Day: TUESDAY** **Date: 12/21/10**

NYSDEC

Temperature: (F) 20 (am) 25 (pm)

Wind Direction: NW (am) NW (pm)

Weather: (am) overcast, light snow
(pm) overcast, some sun

Project Name
Autohaus Site
NYSDEC Site # 8-28-084

Contract # D-004441.05

East Rochester, New York

Arrive at site 730 (am)

Leave site: 330 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? Yes ( ) No (x)
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels?

Soil	Yes (x)	n/a ( )	* No ( )
Waters	Yes ( )	n/a (x)	* No ( )
Air	Yes ( )	n/a ( )	* No ( )

- *If No, provide comments*

OTHER ITEMS:

Site Sketch Attached: Yes ( ) No (x)
Photos Taken: Yes ( ) No (x)

DESCRIPTION OF DAILY WORK PERFORMED:

EA Onsite at 730am, Neil and Brian with Nothnagle Drilling onsite 800am. Installation of 2 microwells/piezometers onsite to further determine onsite groundwater flow. MW-11 installed to northeast of Autohaus structure. Continuous soil samples collected with 4ft macrocore and dedicated acetate sleeves to 30 ft. Boring collapsed to 25 ft when trying to insert casing for well. 3 ¼ in. hollow stem augers were used to go back to 30ft and set the well to depth. Same method was employed while installing MW-12 on south side of building.

No odors/staining/PID readings were observed in any onsite soils. 3 drums of spoils were staged along ballards near MWs 08S/08D for future offsite disposal.

After completion, each new well had a 5in flushmount curb box installed for access.

EA/Nothnagle offsite @ 330pm.

PROJECT TOTALS:

SAMPLING (Soil/Water/Air) NA

Contractor Sample ID:	DEC Sample ID:	Description:

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

(Name of contractor) personnel: David Crandall,

(Name of Subcontractor) personnel: Neil and Brian with Nothnagle Drilling

(Name of contractor) equipment: CME Drill Rig

(*Indicates active equipment)

Other Subcontractors:

VISITORS TO SITE:

1. NA

PROJECT SCHEDULE ISSUES:

NA

PROJECT BUDGET ISSUES:

None.

ITEMS OF CONCERN:

None

COMMENTS:

None

ATTACHMENT(S) TO THIS REPORT:

SITE REPRESENTATIVE:

Name: *David Crandall*

cc:

Photolog

	
Drill rig on MW-11	**Collection of 4ft macrocore**
	
Hollow Stem Auger	**Augering to depth**
	
Spoils drums stored near MWs 08S/D	**Complete flushmount cover**

DAILY OBSERVATION REPORT **Day: WEDNESDAY** **Date: 12/22/10**

NYSDEC

Temperature: (F) 20 (am) 25 (pm)

Wind Direction: NW (am) NW (pm)

Weather: (am) overcast, light snow
(pm) overcast, light snow

Project Name
Autohaus Site
NYSDEC Site # 8-28-084

Contract # D-004441.05

East Rochester, New York

Arrive at site 730 (am)

Leave site: 230 (pm)

HEALTH & SAFETY:

Are there any changes to the Health & Safety Plan? Yes ( ) No (x)
(If yes, list the deviation under items for concern)

Are monitoring results at acceptable levels?

Soil	Yes (x)	n/a ( )	* No ( )
Waters	Yes ( )	n/a (x)	* No ( )
Air	Yes ( )	n/a ( )	* No ( )

- *If No, provide comments*

OTHER ITEMS:

Site Sketch Attached: Yes ( ) No (x)
Photos Taken: Yes ( ) No (x)

DESCRIPTION OF DAILY WORK PERFORMED:

EA Onsite at 730am, gauged entire well network. MW-09 in Well's Landing is damaged (Cover appears to have been hit by machinery, well casing broken @ ~5ft and jammed- unable to gauge/sample)

Newly installed MW-11 and MW-12 were purged of 5 well volumes and then allowed to site until afternoon to collect samples.

All wells sampled with peristaltic pump using low flow techniques, allowing parameters to stabilize prior to collecting samples.

Duplicate sample collected at MW-01, MS/MSD at MW-08D

EA offsite 230pm

PROJECT TOTALS:

SAMPLING (Soil/Water/Air) NA

Contractor Sample ID:	DEC Sample ID:	Description:
MW-01, MW-08S, MW-08D, MW-10, MW-11, MW-12, GP-09		Groundwater samples for VOCs by 8260 B. MS/MSD at MW-08D, Duplicate at MW-01.

DAILY OBSERVATION REPORT Day: WEDNESDAY Date: 12/22/10

CONTRACTOR/SUBCONTRACTOR EQUIPMENT AND PERSONNEL ON SITE:

(Name of contractor) personnel: David Crandall,

(Name of Subcontractor) personnel:

(Name of contractor) equipment: Peristaltic Pump (Geopump II), water level indicator, Horiba U-52, miniRAE PID for headspace readings.

(*Indicates active equipment)

Other Subcontractors:

VISITORS TO SITE:

1. NA

PROJECT SCHEDULE ISSUES:

NA

PROJECT BUDGET ISSUES:

None.

ITEMS OF CONCERN:

MW-09 damaged, likely beyond repair and unable to gauge/collect sample.

COMMENTS:

None

ATTACHMENT(S) TO THIS REPORT:

SITE REPRESENTATIVE:

Name: *David Crandall*

cc:

Photolog

Evidence of damage to MW-09

MW-09 broken at joint

Broken section of MW-09

Evidence earth moving/dumping near MW-09

Low flow purge/sample setup

Appendix C

Soil Boring Logs

FIELD BORING LOG FORM

EA Engineering, P.C.
EA Science and Technology

LOG OF SOIL BORING

Coordinates:
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Job. No.	Client:	New York State Department of Environmental Conservation	Location: Autohaus, East Rochester, NY
Drilling Method:		Hollow Stem Auger 3.25ID Macrocore	Soil Boring Number: MW-11
Sampling Method:		Macrocore	Sheet 1 of 2
Water Lev.	6.5ft bgs		Drilling: Start 12/21/10 830 / Finish 12/21/10 1145
Time			

Surface Conditions: asphalt
Weather: overcast, light snow
Temperature: 25

Blow Counts (140-lb)	Feet Drvn/Ft. Recvrd	Well Diagram	PID (ppm) HNu	Depth in Feet	USCS Log	
	4/3		0.0	0		0-0.5ft Asphalt
						0.5-1ft Dark brown/gray gravelly silty sand (fine, medium dense, dry)
				1		1-4ft Brown silty sand (fine, medium dense, dry)
			0.0	2		
				3		
	4/3		0.0	4		4-5ft Brown/reddish brown clayey sand (fine, dense, dry to moist)
				5		5-14ft Brown silty sandy clay (medium plasticity, stiff, moist to wet @ 6.5ft)
			0.0	6		
				7		
	4/4		0.0	8		
				9		
			0.0	10		
				11		
	4/4		0.0	12		
				13		
			0.0	14		14-21ft Reddish brown/gray gravelly clayey silt (very dense, wet)
				15		
	3/3		0.0	16		
				17		
			0.0	18		
	3/3		0.0	19		
			0.0	20		

1" PVC well, 10' of screen, 20' of riser, sand from 18-30', bentonite from 15-18', sand 15 to surface with concrete pad/flush mount

Logged by: David Crandall Date: 12/22/10

Drilling Contractor: Nothnagle Drilling Driller: Neil

FIELD BORING LOG FORM

EA Engineering, P.C.
EA Science and Technology

LOG OF SOIL BORING

Coordinates:
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Job. No.	Client:	New York State Department of Environmental Conservation	Location: Autohaus, East Rochester, NY
Drilling Method:		Hollow Stem Auger 3.25ID Macrocore	Soil Boring Number: MW-11
Sampling Method:		Macrocore	Sheet 2 of 2
			Drilling: Start 12/21/10 830 / Finish 12/21/10 1145
Water Lev.	6.5ft bgs		
Time			

Surface Conditions: asphalt
Weather: Overcast/light snow
Temperature: 25

Blow Counts (140-lb)	Feet Drvn/Ft. Recvrd	Well Diagram	PID (ppm) HNu	Depth in Feet	USCS Log	
	3/3		0.0	21		21-22ft Gravelly clayey silty w/ cobbles (Medium dense, moist)
				22		22-30ft Brown gray silty sand (very fine, medium dense to dense, wet)
	4/4		0.0	23		
				24		
			0.0	25		
	2/4			26		
			0.0	27		
	2/4			28		
			0.0	29		
				30		End of Boring

1" PVC well, 10' of screen, 20' of riser, sand from 18-30', bentonite from 15-18', sand 15 to surface with concrete pad/flush mount

Logged by: David Crandall Date: 12/22/10

Drilling Contractor: Nothnagle Drilling Driller: Neil

FIELD BORING LOG FORM

EA Engineering, P.C.
EA Science and Technology

LOG OF SOIL BORING

Coordinates:
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Job. No.	Client:	New York State Department of Environmental Conservation	Location: Autohaus, East Rochester, NY
Drilling Method:		Hollow Stem Auger 3.25ID Macrocore	Soil Boring Number: MW-12
Sampling Method:		Macrocore	Sheet 1 of 2
			Drilling
Water Lev.	5 ft bgs		Start: 12/21/10 1230 / Finish: 12/21/10 1500
Time			

Surface Conditions: asphalt
Weather: overcast, light snow
Temperature: 25

Blow Counts (140-lb)	Feet Drvn/Ft. Recvrd	Well Diagram	PID (ppm) HNu	Depth in Feet	USCS Log	
	4/3.5		0.0	0		0-0.5ft Asphalt
				1		0.5-1.5ft Dark brown/gray gravelly silty sand (fine, medium dense, dry)
				2		1.5-5ft Brown silty sand (fine, medium dense, dry)
			0.0	3		
	4/3		0.0	4		
				5		5-6ft Brown/reddish brown gravelly clayey sand (fine, medium dense, wet at 5ft)
			0.0	6		6-14ft Brown silty sandy clay with some gravel (medium plasticity, stiff to medium stiff, wet)
	4/3.5		0.0	8		
				9		
			0.0	10		
				11		
	4/3		0.0	12		
				13		
			0.0	14		14-19.5ft Reddish brown/gray gravelly clayey silt (medium dense to very dense, wet)
				15		
	4/4		0.0	16		
				17		
			0.0	18		
			0.0	19		19.5-20ft Gravelly clayey silt w/ cobbles (very dense, moist)
	4/2.5		0.0	20		20-26ft Brown gray silty sand (medium fine, slightly to very dense, wet)

1" PVC well, 10' of screen, 20' of riser, sand from 18-30', bentonite from 15-18', sand 15 to surface with concrete pad/flush mount

Logged by: David Crandall Date: 12/22/10

Drilling Contractor: Nothnagle Drilling Driller: Neil

FIELD BORING LOG FORM

EA Engineering, P.C.
EA Science and Technology

LOG OF SOIL BORING

Coordinates:
Surface Elevation:
Casing Below Surface:
Reference Elevation:
Reference Description:

Job. No.	Client:	New York State Department of Environmental Conservation	Location: Autohaus, East Rochester, NY
Drilling Method:		Hollow Stem Auger 3.25ID Macrocore	Soil Boring Number: MW-12
Sampling Method:		Macrocore	Sheet 2 of 2
			Drilling
Water Lev.	5 ft bgs		Start: 12/21/10 1230 / Finish: 12/21/10 1500
Time			

Blow Counts (140-lb)	Feet Drvn/Ft. Recvrd	Well Diagram	PID (ppm) HNu	Depth in Feet	USCS Log	Surface Conditions: asphalt Weather: Overcast/light snow Temperature: 25
				21		
	4/2.5		0.0	22		
				23		
	2/4		0.0	24		
				25		
	2/4		0.0	26		26-28ft Brown clayey silt (ense, moist)
				27		
	2/4		0.0	28		28-30ft Brown-gray, silty sand (fine to medium fine, medium dense,wet)
			0.0	29		
				30		End of Boring

1" PVC well, 10' of screen, 20' of riser, sand from 18-30', bentonite from 15-18', sand 15 to surface with concrete pad/flush mount

Logged by: David Crandall Date: 12/22/10

Drilling Contractor: Nothnagle Drilling Driller: Neil

Appendix D

Groundwater Sampling Forms

EA Engineering PC and its Affliate,
EA Science and Technology

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-01	**EA Personnel:** David Crandall	**Client:** NYSDEC
Location: Rochester Autohaus	**Well Condition:** Good	**Weather:** 25F - Overcast/light snow
Sounding Method: SWI	**Gauge Date:** 22-Dec-10	**Measurement Ref:** Top of Casing
Stick Up/Down (ft): Down 6in.	**Gauge Time:** 7:38	**Well Diameter (in):** 2 in.

Purge Date: 22-Dec-10	**Purge Time:** 10:38
Purge Method: Peristaltic Pump - low flow purge/sample	**Field Technician:** David Crandall

Well Volume

A. Well Depth (ft): 24.08	**D. Well Volume (ft):** 0.16	**Depth/Height of Top of PVC:** Down 6 in.
B. Depth to Water (ft): 10.24	**E. Well Volume (gal) C*D):** 2.2144	**Pump Type:** Geopump and dedicated tubing
C. Liquid Depth (ft) (A-B): 13.84	**F. Five Well Volumes (gal) (E3):** 6.6432	**Pump Designation:**

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (Gpm)	pH (pH units)	ORP (mV)	Temperature (oC)	Conductivity (uS/cm)	DO (ug/L)	Turbidity (ntu)
1042	10.27	2	0.5	7.19	-93	8.07	0.687	0.00	5.8
1046	10.27	4	0.5	7.11	-89	8.68	0.653	0.00	3.9
1050	10.27	6	0.5	7.11	-86	8	0.652	0.00	3.1
1054	10.27	8	0.5	7.11	-82	8.07	0.652	0.00	8.6
1058	10.28	10	0.5	7.07	-82	8.07	0.647	0.00	3.7
1102	10.28	12	0.5	7.07	-82	8.09	0.641	0.00	13.4

Total Quantity of Water Removed (gal): 3
Samplers: DC
Sampling Date: 22-Dec-10
Sampling Time: 1110
Split Sample With: mw-dup
Sample Type: GW

COMMENTS AND OBSERVATIONS:

EA Engineering PC and its Affliate,
EA Science and Technology

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-8S	**EA Personnel:** David Crandall	**Client:** NYSDEC
Location: Rochester Autohaus	**Well Condition:** Good	**Weather:** 25 F - Light snow
Sounding Method: SWI	**Gauge Date:** 22-Dec-10	**Measurement Ref:** Top of Casing
Stick Up/Down (ft): up 1ft	**Gauge Time:** 7:45	**Well Diameter (in):** 2 in.

Purge Date: 22-Dec-10	**Purge Time:** 11:16
Purge Method: Peristaltic Pump - low flow purge/sample	**Field Technician:** David Crandall

Well Volume

A. Well Depth (ft): 24.47	**D. Well Volume (ft):** 0.16	**Depth/Height of Top of PVC:** up 1ft
B. Depth to Water (ft): 12.14	**E. Well Volume (gal) C*D):** 1.9728	**Pump Type:** Geopump and dedicated tubing
C. Liquid Depth (ft) (A-B): 12.33	**F. Five Well Volumes (gal) (E3):** 5.9184	**Pump Designation:**

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (Gpm)	pH (pH units)	ORP (mV)	Temperature (oC)	Conductivity (uS/cm)	DO (ug/L)	Turbidity (ntu)
1120	10.49	2	0.5	7.36	39	10.92	0.410	7.15	21.3
1124	10.7	4	0.5	7.36	34	11.03	0.411	7.15	24.2
1128	10.87	6	0.5	7.40	59	11.61	0.439	6.82	20.7
1132	10.91	8	0.5	7.39	74	11.64	0.447	5.71	16.9
1136	10.93	10	0.5	7.39	77	11.7	0.452	5.71	15.3
1140	10.98	12	0.5	7.42	79	11.72	0.452	5.71	14.2

Total Quantity of Water Removed (gal): 1.5
Samplers: DC
Sampling Date: 22-Dec-10
Sampling Time: 11:45
Split Sample With:
Sample Type: GW

COMMENTS AND OBSERVATIONS: Lock wouldn't open - cut and replaced with new master lock

EA Engineering PC and its Affliate,
EA Science and Technology

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-8D	**EA Personnel:** David Crandall	**Client:** NYSDEC
Location: Rochester Autohaus	**Well Condition:** Good	**Weather:** 25 F - Light snow
Sounding Method: SWI	**Gauge Date:** 22-Dec-10	**Measurement Ref:** Top of Casing
Stick Up/Down (ft): up 2ft	**Gauge Time:** 7:46	**Well Diameter (in):** 2 in.

Purge Date: 22-Dec-10	**Purge Time:** 11:50
Purge Method: Peristaltic Pump - low flow purge/sample	**Field Technician:** David Crandall

Well Volume

A. Well Depth (ft): 72.19	**D. Well Volume (ft):** 0.16	**Depth/Height of Top of PVC:** up 2ft
B. Depth to Water (ft): 15.88	**E. Well Volume (gal) C*D):** 9.0096	**Pump Type:** Geopump and dedicated tubing
C. Liquid Depth (ft) (A-B): 56.31	**F. Five Well Volumes (gal) (E3):** 27.0288	**Pump Designation:**

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (Gpm)	pH (pH units)	ORP (mV)	Temperature (oC)	Conductivity (uS/cm)	DO (ug/L)	Turbidity (ntu)
1154	15.88	2	0.5	10.74	-28	10.51	0.447	5.51	1.8
1158	15.88	4	0.5	10.74	-28	10.59	0.448	5.51	1.9
1202	15.88	6	0.5	10.75	-26	10.49	0.446	5.5	1.8
1206	15.88	8	0.5	10.73	-24	10.41	0.446	5.51	2
1210	15.88	10	0.5	10.78	-24	10.38	0.446	5.54	3.9
1214	15.88	12	0.5	10.75	-24	10.44	0.445	5.57	0.1
1218	15.88	14	0.5	10.76	-24	10.36	0.445	5.53	1.7
1222	15.88	16	0.5	10.76	-24	10.38	0.445	5.5	1.9
1226	15.88	18	0.5	10.76	-24	10.41	0.445	5.5	1.8
1230	15.88	20	0.5	10.76	-24	10.4	0.445	5.51	1.8
1234	15.88	22	0.5	10.76	-24	10.36	0.445	5.51	1.8
1238	15.88	24	0.5	10.76	-24	10.35	0.445	5.5	1.8

Total Quantity of Water Removed (gal):	6	**Sampling Time:**	1240
Samplers:	DC	**Split Sample With:**	MS/MSD
Sampling Date:	22-Dec-10	**Sample Type:**	GW

COMMENTS AND OBSERVATIONS: lock wouldn't open, cut to access well and replace with new masterlock after sampling

EA Engineering PC and its Affliate,
EA Science and Technology

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-09	**EA Personnel:** David Crandall	**Client:** NYSDEC
Location: Rochester Autohaus	**Well Condition:** DAMAGED - CAN NOT SAMPLE	**Weather:** 25 F - Overcast/light snow
Sounding Method: SWI	**Gauge Date:**	**Measurement Ref:** Top of Casing
Stick Up/Down (ft): up 2.5ft	**Gauge Time:**	**Well Diameter (in):** 2 in.

Purge Date:	**Purge Time:**
Purge Method:	**Field Technician:** David Crandall

Well Volume

A. Well Depth (ft):	**D. Well Volume (ft):**	**Depth/Height of Top of PVC:**
B. Depth to Water (ft):	**E. Well Volume (gal) C*D):**	**Pump Type:**
C. Liquid Depth (ft) (A-B):	**F. Five Well Volumes (gal) (E3):**	**Pump Designation:**

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (Gpm)	pH (pH units)	ORP (mV)	Temperature (oC)	Conductivity (uS/cm)	DO (ug/L)	Turbidity (ntu)

Total Quantity of Water Removed (gal): _____ **Sampling Time:** _____

Samplers: _____ **Split Sample With:** _____

Sampling Date: _____ **Sample Type:** _____

COMMENTS AND OBSERVATIONS: well appears to have been hit with backhoe/vehicle, well cover kinked, well broken and blocked at ~ 5 ft. bgs

EA Engineering PC and its Affliate,
EA Science and Technology

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-10	**EA Personnel:** David Crandall	**Client:** NYSDEC
Location: Rochester Autohaus	**Well Condition:** Good	**Weather:** 25 F - overcast/light snow
Sounding Method: SWI	**Gauge Date:** 22-Dec-10	**Measurement Ref:** Top of Casing
Stick Up/Down (ft): down 6 in.	**Gauge Time:** 7:32	**Well Diameter (in):** 2 in.

Purge Date: 22-Dec-10	**Purge Time:** 9:49
Purge Method: Peristaltic Pump - low flow purge/sample	**Field Technician:** David Crandall

Well Volume

A. Well Depth (ft): 18.48	**D. Well Volume (ft):** 0.16	**Depth/Height of Top of PVC:** Down 6 in.
B. Depth to Water (ft): 9.66	**E. Well Volume (gal) C*D):** 1.4112	**Pump Type:** Geopump and dedicated tubing
C. Liquid Depth (ft) (A-B): 8.82	**F. Five Well Volumes (gal) (E3):** 4.2336	**Pump Designation:**

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (Gpm)	pH (pH units)	ORP (mV)	Temperature (oC)	Conductivity (uS/cm)	DO (ug/L)	Turbidity (ntu)
953	9.67	1	0.25	7.39	77	10.98	0.662	13.28	3.9
957	9.68	2	0.25	7.37	72	12.49	0.671	11.71	3.3
1001	9.68	3	0.25	7.36	93	12.57	0.641	9.89	1.7
1005	9.68	4	0.25	7.36	113	12.60	0.638	6.73	3.6
1009	9.68	5	0.25	7.36	109	12.71	0.638	6.70	2.9
1013	9.68	6	0.25	7.35	111	12.75	0.636	6.61	2.9

Total Quantity of Water Removed (gal): 1.5
Samplers: DC
Sampling Date: 22-Dec-10
Sampling Time: 1015
Split Sample With:
Sample Type: GW

COMMENTS AND OBSERVATIONS: some water in annular space purged out prior to opening well cap

EA Engineering PC and its Affliate,
EA Science and Technology

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: GP09	**EA Personnel:** David Crandall	**Client:** NYSDEC
Location: Rochester Autohaus	**Well Condition:** Good	**Weather:** 50 F - Overcast/Light Rain
Sounding Method: SWI	**Gauge Date:** 22-Dec-10	**Measurement Ref:** Top of Casing
Stick Up/Down (ft): Down 1 in.	**Gauge Time:** 7:30	**Well Diameter (in):** 1 in.

Purge Date: 22-Dec-10	**Purge Time:** 9:14
Purge Method: Peristaltic Pump - low flow purge/sample	**Field Technician:** David Crandall

Well Volume

A. Well Depth (ft): 29.49	**D. Well Volume (ft):** 0.04	**Depth/Height of Top of PVC:** down 1 in.
B. Depth to Water (ft): 12.85	**E. Well Volume (gal) C*D):** 0.6656	**Pump Type:** Geopump and dedicated tubing
C. Liquid Depth (ft) (A-B): 16.64	**F. Five Well Volumes (gal) (E3):** 1.9968	**Pump Designation:**

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (Gpm)	pH (pH units)	ORP (mV)	Temperature (oC)	Conductivity (uS/cm)	DO (ug/L)	Turbidity (ntu)
918		1	0.25	7.57	194	10.88	0.673	3.91	19.1
922		2	0.25	7.18	-20	11.42	0.947	0.91	12.3
926		3	0.25	7.18	-20	11.51	0.95	0.00	10.8
930		4	0.25	7.18	-20	11.61	0.968	0.00	9.7
934	13.75	5	0.25	7.18	-20	11.67	0.969	0.00	9.8

Total Quantity of Water Removed (gal): 1.25
Samplers: DC
Sampling Date: 22-Dec-10
Sampling Time: 940
Split Sample With:
Sample Type: GW

COMMENTS AND OBSERVATIONS: No well cap, some water in annular space. Reused Plastic that had covered GP after last event to cover top of casing again. No evidence that water had infiltrated plasic sheeting used as cover.

EA Engineering PC and its Affliate,
EA Science and Technology

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-11	**EA Personnel:** David Crandall	**Client:** NYSDEC
Location: Rochester Autohaus	**Well Condition:** Good	**Weather:** 25 F - Overcast/light snow
Sounding Method: SWI	**Gauge Date:** 22-Dec-10	**Measurement Ref:** Top of Casing
Stick Up/Down (ft): Down 6 in.	**Gauge Time:** 7:50	**Well Diameter (in):** 1 in.

Purge Date: 22-Dec-10	**Purge Time:** 12:50
Purge Method: Peristaltic Pump - low flow purge/sample	**Field Technician:** David Crandall

Well Volume

A. Well Depth (ft): 29.59	**D. Well Volume (ft):** 0.04	**Depth/Height of Top of PVC:** down 1 in.
B. Depth to Water (ft): 11.49	**E. Well Volume (gal) C*D):** 0.724	**Pump Type:** Geopump and dedicated tubing
C. Liquid Depth (ft) (A-B): 18.1	**F. Five Well Volumes (gal) (E3):** 2.172	**Pump Designation:**

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (Gpm)	pH (pH units)	ORP (mV)	Temperature (oC)	Conductivity (uS/cm)	DO (ug/L)	Turbidity (ntu)
1254		1	0.25	7.82	-71	11.63	0.218	6.15	472
1258		2	0.25	7.87	-60	11.27	0.301	0.00	102
1302		3	0.25	7.90	11	10.94	0.41	0.00	39.8
1306		4	0.25	7.90	16	10.93	0.414	0.00	36.3
1310	12.51	5	0.25	7.9	17	10.9	0.413	0.00	37.1

Total Quantity of Water Removed (gal): 1.25
Samplers: DC
Sampling Date: 22-Dec-10
Sampling Time: 1315
Split Sample With:
Sample Type: GW

COMMENTS AND OBSERVATIONS: well purged of 5 well volumes in AM, low flow sampling completed in afternoon after allowing well to recharge

EA Engineering PC and its Affliate,
EA Science and Technology

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-12	**EA Personnel:** David Crandall	**Client:** NYSDEC
Location: Rochester Autohaus	**Well Condition:** Good	**Weather:** 25 F - Overcast/light snow
Sounding Method: SWI	**Gauge Date:** 22-Dec-10	**Measurement Ref:** Top of Casing
Stick Up/Down (ft): Down 6 in.	**Gauge Time:** 7:54	**Well Diameter (in):** 1 in.

Purge Date: 22-Dec-10	**Purge Time:** 13:20
Purge Method: Peristaltic Pump - low flow purge/sample	**Field Technician:** David Crandall

Well Volume

A. Well Depth (ft): 29.13	**D. Well Volume (ft):** 0.04	**Depth/Height of Top of PVC:** down 1 in.
B. Depth to Water (ft): 11.29	**E. Well Volume (gal) C*D):** 0.7136	**Pump Type:** Geopump and dedicated tubing
C. Liquid Depth (ft) (A-B): 17.84	**F. Five Well Volumes (gal) (E3):** 2.1408	**Pump Designation:**

Water Quality Parameters

Time (hrs)	DTW (ft btoc)	Volume (liters)	Rate (Gpm)	pH (pH units)	ORP (mV)	Temperature (oC)	Conductivity (uS/cm)	DO (ug/L)	Turbidity (ntu)
1324		1	0.25	7.52	80	10.13	0.281	0.70	452
1328		2	0.25	7.58	82	9.49	0.312	0.57	117
1332		3	0.25	7.59	86	9.84	0.54	0.53	39.8
1336		4	0.25	7.59	86	9.81	0.54	0.50	37.6
1340	11.78	5	0.25	7.59	86	9.75	0.544	0.52	31.2

Total Quantity of Water Removed (gal): 1.25
Samplers: DC
Sampling Date: 22-Dec-10
Sampling Time: 1345
Split Sample With:
Sample Type: GW

COMMENTS AND OBSERVATIONS: well purged of 5 well volumes in AM, low flow sampling completed in afternoon after allowing well to recharge

Appendix E

Analytical Form Is

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057 (315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT	EA Engineering Science and Technology	**Lab ID:**	**K1012255-001A**
Project:	DEC- Autohaus	**Client Sample ID:**	***828084-GP-09***
W Order:	K1012255	**Collection Date:**	12/22/10 9:40
Matrix:	GROUNDWATER	**Date Received:**	12/23/10 8:23
Inst. ID:	MS04_73	**Sample Size** 10 mL	**PrepDate:**
ColumnID:	Rtx-VMS	**%Moisture:**	**BatchNo:** R21279
Revision:	01/03/11 7:34	**TestCode:** 8260W_OLM42	**FileID:** 1-SAMP-R7631.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
Dichlorodifluoromethane	ND		1.00	0.10	µg/L	1	12/30/10 10:46
Chloromethane	ND		1.00	0.33	µg/L	1	12/30/10 10:46
Vinyl chloride	ND		1.00	0.33	µg/L	1	12/30/10 10:46
Bromomethane	ND		1.00	0.33	µg/L	1	12/30/10 10:46
Chloroethane	0.61	J	1.00	0.33	µg/L	1	12/30/10 10:46
Trichlorofluoromethane	ND		1.00	0.10	µg/L	1	12/30/10 10:46
1,1-Dichloroethene	ND		0.50	0.16	µg/L	1	12/30/10 10:46
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.10	µg/L	1	12/30/10 10:46
Acetone	9.71	J	10.0	1.00	µg/L	1	12/30/10 10:46
Carbon disulfide	ND		0.50	0.11	µg/L	1	12/30/10 10:46
Methyl acetate	ND		5.00	1.00	µg/L	1	12/30/10 10:46
Methylene chloride	0.39	J	2.00	0.16	µg/L	1	12/30/10 10:46
trans-1,2-Dichloroethene	ND		0.50	0.10	µg/L	1	12/30/10 10:46
Methyl tert-butyl ether	1.51		1.00	0.16	µg/L	1	12/30/10 10:46
1,1-Dichloroethane	2.46		0.50	0.10	µg/L	1	12/30/10 10:46
cis-1,2-Dichloroethene	0.12	J	0.50	0.10	µg/L	1	12/30/10 10:46
2-Butanone	1.33	J	10.0	1.00	µg/L	1	12/30/10 10:46
Chloroform	0.38	J	0.50	0.10	µg/L	1	12/30/10 10:46
1,1,1-Trichloroethane	ND		0.50	0.10	µg/L	1	12/30/10 10:46
Cyclohexane	ND		0.50	0.10	µg/L	1	12/30/10 10:46
Carbon tetrachloride	ND		0.50	0.10	µg/L	1	12/30/10 10:46
Benzene	1.44		0.50	0.10	µg/L	1	12/30/10 10:46
1,2-Dichloroethane	ND		0.50	0.16	µg/L	1	12/30/10 10:46
Trichloroethene	0.81		0.50	0.10	µg/L	1	12/30/10 10:46
Methylcyclohexane	ND		0.50	0.10	µg/L	1	12/30/10 10:46
1,2-Dichloropropane	0.30	J	0.50	0.16	µg/L	1	12/30/10 10:46
Bromodichloromethane	ND		0.50	0.10	µg/L	1	12/30/10 10:46
cis-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	12/30/10 10:46
4-Methyl-2-pentanone	1.05	J	5.00	1.00	µg/L	1	12/30/10 10:46
Toluene	4.96		0.50	0.10	µg/L	1	12/30/10 10:46
trans-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	12/30/10 10:46
1,1,2-Trichloroethane	ND		0.50	0.16	µg/L	1	12/30/10 10:46
Tetrachloroethene	0.11	J	0.50	0.10	µg/L	1	12/30/10 10:46
2-Hexanone	ND		5.00	1.00	µg/L	1	12/30/10 10:46

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057 (315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT	EA Engineering Science and Technology	**Lab ID:**	**K1012255-001A**
Project:	DEC- Autohaus	**Client Sample ID:**	***828084-GP-09***
W Order:	K1012255	**Collection Date:**	12/22/10 9:40
Matrix:	GROUNDWATER	**Date Received:**	12/23/10 8:23
Inst. ID:	MS04_73 **Sample Size** 10 mL	**PrepDate:**	
ColumnID:	Rtx-VMS **%Moisture:**	**BatchNo:**	R21279
Revision:	01/03/11 7:34 **TestCode:** 8260W_OLM42	**FileID:**	1-SAMP-R7631.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
Dibromochloromethane	ND		0.50	0.10	µg/L	1	12/30/10 10:46
1,2-Dibromoethane	ND		0.50	0.16	µg/L	1	12/30/10 10:46
Chlorobenzene	0.75		0.50	0.10	µg/L	1	12/30/10 10:46
Ethylbenzene	6.70		0.50	0.10	µg/L	1	12/30/10 10:46
Xylenes (total)	24.0		1.00	0.30	µg/L	1	12/30/10 10:46
Styrene	ND		0.50	0.10	µg/L	1	12/30/10 10:46
Bromoform	ND		1.00	0.33	µg/L	1	12/30/10 10:46
Isopropylbenzene	1.40		0.50	0.10	µg/L	1	12/30/10 10:46
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	µg/L	1	12/30/10 10:46
1,3-Dichlorobenzene	0.17	J	0.50	0.10	µg/L	1	12/30/10 10:46
1,4-Dichlorobenzene	3.53		0.50	0.16	µg/L	1	12/30/10 10:46
1,2-Dichlorobenzene	80.2		0.50	0.10	µg/L	1	12/30/10 10:46
1,2-Dibromo-3-chloropropane	ND		5.00	1.00	µg/L	1	12/30/10 10:46
1,2,4-Trichlorobenzene	ND		1.00	0.10	µg/L	1	12/30/10 10:46
Surr: 1,2-Dichloroethane-d4	117		75-128	0.16	%REC	1	12/30/10 10:46
Surr: Toluene-d8	110		75-125	0.10	%REC	1	12/30/10 10:46
Surr: 4-Bromofluorobenzene	100		75-125	0.10	%REC	1	12/30/10 10:46

Qualifiers:	* Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 01/03/11 9:47 544077 **roject Supervisor:** Anthony Crescenzi

Form 1 TIC

CLIENT SAMPLE NO.

Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

828084-GP-09

Lab Name: Life Science Laboratories, Inc. Contract: _____

Lab Code: LSLB Case No.: EA SAS No.: _____ SDG No.: K1012255

Matrix: (soil/water) WATER Lab Sample ID: K1012255-001A

Sample wt/vol: 10 (g/mL) ML Lab File ID: R7631.D

Level: LOW Date Received: 12/23/2010

% Moisture: not dec. Date Analyzed: 12/30/2010

GC Column: Rtx-VMS ID: 0.25 (mm) Dilution Factor: 1.00

Extract Volume: _____ (µl)

Number TICs found: 5 CONCENTRATION UNITS: UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1	000611-14-3	Benzene, 1-ethyl-2-methyl- 17.	17.94	2.73	JN
2	000526-73-8	Benzene, 1,2,3-trimethyl- 18.1	18.18	5.58	JN
3	000496-11-7	Indane 19.110	19.11	2.59	JN
4		unknown 21.080	21.08	1.54	J
5	000091-20-3	Naphthalene 22.360	22.36	1.55	JN

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057 (315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT	EA Engineering Science and Technology	**Lab ID:**	K1012255-002A
Project:	DEC- Autohaus	**Client Sample ID:**	*828084-MW-10*
W Order:	K1012255	**Collection Date:**	12/22/10 10:15
Matrix:	GROUNDWATER	**Date Received:**	12/23/10 8:23
Inst. ID:	MS04_73	**Sample Size** 10 mL	**PrepDate:**
ColumnID:	Rtx-VMS	**%Moisture:**	**BatchNo:** R21279
Revision:	01/03/11 7:34	**TestCode:** 8260W_OLM42	**FileID:** 1-SAMP-R7641.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
Dichlorodifluoromethane	ND		1.00	0.10	µg/L	1	12/30/10 15:50
Chloromethane	ND		1.00	0.33	µg/L	1	12/30/10 15:50
Vinyl chloride	ND		1.00	0.33	µg/L	1	12/30/10 15:50
Bromomethane	ND		1.00	0.33	µg/L	1	12/30/10 15:50
Chloroethane	ND		1.00	0.33	µg/L	1	12/30/10 15:50
Trichlorofluoromethane	ND		1.00	0.10	µg/L	1	12/30/10 15:50
1,1-Dichloroethene	ND		0.50	0.16	µg/L	1	12/30/10 15:50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.10	µg/L	1	12/30/10 15:50
Acetone	ND		10.0	1.00	µg/L	1	12/30/10 15:50
Carbon disulfide	ND		0.50	0.11	µg/L	1	12/30/10 15:50
Methyl acetate	ND		5.00	1.00	µg/L	1	12/30/10 15:50
Methylene chloride	ND		2.00	0.16	µg/L	1	12/30/10 15:50
trans-1,2-Dichloroethene	ND		0.50	0.10	µg/L	1	12/30/10 15:50
Methyl tert-butyl ether	ND		1.00	0.16	µg/L	1	12/30/10 15:50
1,1-Dichloroethane	ND		0.50	0.10	µg/L	1	12/30/10 15:50
cis-1,2-Dichloroethene	ND		0.50	0.10	µg/L	1	12/30/10 15:50
2-Butanone	ND		10.0	1.00	µg/L	1	12/30/10 15:50
Chloroform	2.87		0.50	0.10	µg/L	1	12/30/10 15:50
1,1,1-Trichloroethane	ND		0.50	0.10	µg/L	1	12/30/10 15:50
Cyclohexane	ND		0.50	0.10	µg/L	1	12/30/10 15:50
Carbon tetrachloride	ND		0.50	0.10	µg/L	1	12/30/10 15:50
Benzene	ND		0.50	0.10	µg/L	1	12/30/10 15:50
1,2-Dichloroethane	ND		0.50	0.16	µg/L	1	12/30/10 15:50
Trichloroethene	ND		0.50	0.10	µg/L	1	12/30/10 15:50
Methylcyclohexane	ND		0.50	0.10	µg/L	1	12/30/10 15:50
1,2-Dichloropropane	ND		0.50	0.16	µg/L	1	12/30/10 15:50
Bromodichloromethane	0.46	J	0.50	0.10	µg/L	1	12/30/10 15:50
cis-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	12/30/10 15:50
4-Methyl-2-pentanone	ND		5.00	1.00	µg/L	1	12/30/10 15:50
Toluene	ND		0.50	0.10	µg/L	1	12/30/10 15:50
trans-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	12/30/10 15:50
1,1,2-Trichloroethane	ND		0.50	0.16	µg/L	1	12/30/10 15:50
Tetrachloroethene	ND		0.50	0.10	µg/L	1	12/30/10 15:50
2-Hexanone	ND		5.00	1.00	µg/L	1	12/30/10 15:50

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057 (315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT	EA Engineering Science and Technology	**Lab ID:**	**K1012255-002A**
Project:	DEC- Autohaus	**Client Sample ID:**	***828084-MW-10***
W Order:	K1012255	**Collection Date:**	12/22/10 10:15
Matrix:	GROUNDWATER	**Date Received:**	12/23/10 8:23
Inst. ID:	MS04_73 **Sample Size** 10 mL	**PrepDate:**	
ColumnID:	Rtx-VMS **%Moisture:**	**BatchNo:**	R21279
Revision:	01/03/11 7:34 **TestCode:** 8260W_OLM42	**FileID:**	1-SAMP-R7641.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
Dibromochloromethane	ND		0.50	0.10	µg/L	1	12/30/10 15:50
1,2-Dibromoethane	ND		0.50	0.16	µg/L	1	12/30/10 15:50
Chlorobenzene	ND		0.50	0.10	µg/L	1	12/30/10 15:50
Ethylbenzene	ND		0.50	0.10	µg/L	1	12/30/10 15:50
Xylenes (total)	ND		1.00	0.30	µg/L	1	12/30/10 15:50
Styrene	ND		0.50	0.10	µg/L	1	12/30/10 15:50
Bromoform	ND		1.00	0.33	µg/L	1	12/30/10 15:50
Isopropylbenzene	ND		0.50	0.10	µg/L	1	12/30/10 15:50
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	µg/L	1	12/30/10 15:50
1,3-Dichlorobenzene	ND		0.50	0.10	µg/L	1	12/30/10 15:50
1,4-Dichlorobenzene	ND		0.50	0.16	µg/L	1	12/30/10 15:50
1,2-Dichlorobenzene	ND		0.50	0.10	µg/L	1	12/30/10 15:50
1,2-Dibromo-3-chloropropane	ND		5.00	1.00	µg/L	1	12/30/10 15:50
1,2,4-Trichlorobenzene	ND		1.00	0.10	µg/L	1	12/30/10 15:50
Surr: 1,2-Dichloroethane-d4	117		75-128	0.16	%REC	1	12/30/10 15:50
Surr: Toluene-d8	111		75-125	0.10	%REC	1	12/30/10 15:50
Surr: 4-Bromofluorobenzene	107		75-125	0.10	%REC	1	12/30/10 15:50

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 01/03/11 9:17 544084 **roject Supervisor:** Anthony Crescenzi

Form 1 TIC

CLIENT SAMPLE NO.

Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

828084-MW-10

Lab Name: Life Science Laboratories, Inc. Contract: _____

Lab Code: LSLB Case No.: EA SAS No.: _____ SDG No.: K1012255

Matrix: (soil/water) WATER Lab Sample ID: K1012255-002A

Sample wt/vol: 10 (g/mL) ML Lab File ID: R7641.D

Level: LOW Date Received: 12/23/2010

% Moisture: not dec. Date Analyzed: 12/30/2010

GC Column: Rtx-VMS ID: 0.25 (mm) Dilution Factor: 1.00

Extract Volume: _____ (µl)

Number TICs found: 0 CONCENTRATION UNITS: UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057 (315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT	EA Engineering Science and Technology	**Lab ID:**	K1012255-003A
Project:	DEC- Autohaus	**Client Sample ID:**	*828084-MW-01*
W Order:	K1012255	**Collection Date:**	12/22/10 11:10
Matrix:	GROUNDWATER	**Date Received:**	12/23/10 8:23
Inst. ID:	MS04_73	**Sample Size** 10 mL	**PrepDate:**
ColumnID:	Rtx-VMS	**%Moisture:**	**BatchNo:** R21279
Revision:	01/03/11 7:34	**TestCode:** 8260W_OLM42	**FileID:** 1-SAMP-R7633.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
Dichlorodifluoromethane	ND		1.00	0.10	µg/L	1	12/30/10 11:47
Chloromethane	ND		1.00	0.33	µg/L	1	12/30/10 11:47
Vinyl chloride	ND		1.00	0.33	µg/L	1	12/30/10 11:47
Bromomethane	ND		1.00	0.33	µg/L	1	12/30/10 11:47
Chloroethane	ND		1.00	0.33	µg/L	1	12/30/10 11:47
Trichlorofluoromethane	ND		1.00	0.10	µg/L	1	12/30/10 11:47
1,1-Dichloroethene	ND		0.50	0.16	µg/L	1	12/30/10 11:47
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.10	µg/L	1	12/30/10 11:47
Acetone	ND		10.0	1.00	µg/L	1	12/30/10 11:47
Carbon disulfide	ND		0.50	0.11	µg/L	1	12/30/10 11:47
Methyl acetate	ND		5.00	1.00	µg/L	1	12/30/10 11:47
Methylene chloride	ND		2.00	0.16	µg/L	1	12/30/10 11:47
trans-1,2-Dichloroethene	ND		0.50	0.10	µg/L	1	12/30/10 11:47
Methyl tert-butyl ether	ND		1.00	0.16	µg/L	1	12/30/10 11:47
1,1-Dichloroethane	0.25	J	0.50	0.10	µg/L	1	12/30/10 11:47
cis-1,2-Dichloroethene	0.28	J	0.50	0.10	µg/L	1	12/30/10 11:47
2-Butanone	ND		10.0	1.00	µg/L	1	12/30/10 11:47
Chloroform	ND		0.50	0.10	µg/L	1	12/30/10 11:47
1,1,1-Trichloroethane	ND		0.50	0.10	µg/L	1	12/30/10 11:47
Cyclohexane	ND		0.50	0.10	µg/L	1	12/30/10 11:47
Carbon tetrachloride	ND		0.50	0.10	µg/L	1	12/30/10 11:47
Benzene	ND		0.50	0.10	µg/L	1	12/30/10 11:47
1,2-Dichloroethane	ND		0.50	0.16	µg/L	1	12/30/10 11:47
Trichloroethene	0.56		0.50	0.10	µg/L	1	12/30/10 11:47
Methylcyclohexane	ND		0.50	0.10	µg/L	1	12/30/10 11:47
1,2-Dichloropropane	ND		0.50	0.16	µg/L	1	12/30/10 11:47
Bromodichloromethane	ND		0.50	0.10	µg/L	1	12/30/10 11:47
cis-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	12/30/10 11:47
4-Methyl-2-pentanone	ND		5.00	1.00	µg/L	1	12/30/10 11:47
Toluene	ND		0.50	0.10	µg/L	1	12/30/10 11:47
trans-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	12/30/10 11:47
1,1,2-Trichloroethane	ND		0.50	0.16	µg/L	1	12/30/10 11:47
Tetrachloroethene	1.91		0.50	0.10	µg/L	1	12/30/10 11:47
2-Hexanone	ND		5.00	1.00	µg/L	1	12/30/10 11:47

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057 (315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT	EA Engineering Science and Technology	**Lab ID:**	**K1012255-003A**
Project:	DEC- Autohaus	**Client Sample ID:**	***828084-MW-01***
W Order:	K1012255	**Collection Date:**	12/22/10 11:10
Matrix:	GROUNDWATER	**Date Received:**	12/23/10 8:23
Inst. ID:	MS04_73 **Sample Size** 10 mL	**PrepDate:**	
ColumnID:	Rtx-VMS **%Moisture:**	**BatchNo:**	R21279
Revision:	01/03/11 7:34 **TestCode:** 8260W_OLM42	**FileID:**	1-SAMP-R7633.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
Dibromochloromethane	ND		0.50	0.10	µg/L	1	12/30/10 11:47
1,2-Dibromoethane	ND		0.50	0.16	µg/L	1	12/30/10 11:47
Chlorobenzene	ND		0.50	0.10	µg/L	1	12/30/10 11:47
Ethylbenzene	ND		0.50	0.10	µg/L	1	12/30/10 11:47
Xylenes (total)	ND		1.00	0.30	µg/L	1	12/30/10 11:47
Styrene	ND		0.50	0.10	µg/L	1	12/30/10 11:47
Bromoform	ND		1.00	0.33	µg/L	1	12/30/10 11:47
Isopropylbenzene	ND		0.50	0.10	µg/L	1	12/30/10 11:47
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	µg/L	1	12/30/10 11:47
1,3-Dichlorobenzene	0.39	J	0.50	0.10	µg/L	1	12/30/10 11:47
1,4-Dichlorobenzene	1.92		0.50	0.16	µg/L	1	12/30/10 11:47
1,2-Dichlorobenzene	0.80		0.50	0.10	µg/L	1	12/30/10 11:47
1,2-Dibromo-3-chloropropane	ND		5.00	1.00	µg/L	1	12/30/10 11:47
1,2,4-Trichlorobenzene	ND		1.00	0.10	µg/L	1	12/30/10 11:47
Surr: 1,2-Dichloroethane-d4	118		75-128	0.16	%REC	1	12/30/10 11:47
Surr: Toluene-d8	110		75-125	0.10	%REC	1	12/30/10 11:47
Surr: 4-Bromofluorobenzene	104		75-125	0.10	%REC	1	12/30/10 11:47

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 01/03/11 9:17 544078 **roject Supervisor:** Anthony Crescenzi

Form 1 TIC

CLIENT SAMPLE NO.

Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

828084-MW-01

Lab Name: Life Science Laboratories, Inc. Contract: _____

Lab Code: LSLB Case No.: EA SAS No.: _____ SDG No.: K1012255

Matrix: (soil/water) WATER Lab Sample ID: K1012255-003A

Sample wt/vol: 10 (g/mL) ML Lab File ID: R7633.D

Level: LOW Date Received: 12/23/2010

% Moisture: not dec. Date Analyzed: 12/30/2010

GC Column: Rtx-VMS ID: 0.25 (mm) Dilution Factor: 1.00

Extract Volume: _____ (µl)

Number TICs found: 7 CONCENTRATION UNITS: UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1		unknown 18.350	18.35	1.17	J
2		unknown 18.970	18.97	1.35	J
3		unknown 19.700	19.70	1.00	J
4		unknown 19.850	19.85	1.90	J
5	000095-93-2	Benzene, 1,2,4,5-tetramethyl-	20.41	1.19	JN
6	000700-12-9	Benzene, pentamethyl- 20.540	20.54	1.04	JN
7		unknown 21.090	21.09	1.34	J

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057 (315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT	EA Engineering Science and Technology			**Lab ID:**	**K1012255-004A**
Project:	DEC- Autohaus			**Client Sample ID:**	***828084-MW-08S***
W Order:	K1012255			**Collection Date:**	12/22/10 11:45
Matrix:	GROUNDWATER			**Date Received:**	12/23/10 8:23
Inst. ID:	MS04_73	**Sample Size**	10 mL	**PrepDate:**	
ColumnID:	Rtx-VMS	**%Moisture:**		**BatchNo:**	R21279
Revision:	01/03/11 7:34	**TestCode:**	8260W_OLM42	**FileID:**	1-SAMP-R7636.D
Col Type:					

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
Dichlorodifluoromethane	ND		1.00	0.10	µg/L	1	12/30/10 13:18
Chloromethane	ND		1.00	0.33	µg/L	1	12/30/10 13:18
Vinyl chloride	ND		1.00	0.33	µg/L	1	12/30/10 13:18
Bromomethane	ND		1.00	0.33	µg/L	1	12/30/10 13:18
Chloroethane	ND		1.00	0.33	µg/L	1	12/30/10 13:18
Trichlorofluoromethane	ND		1.00	0.10	µg/L	1	12/30/10 13:18
1,1-Dichloroethene	ND		0.50	0.16	µg/L	1	12/30/10 13:18
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.10	µg/L	1	12/30/10 13:18
Acetone	ND		10.0	1.00	µg/L	1	12/30/10 13:18
Carbon disulfide	ND		0.50	0.11	µg/L	1	12/30/10 13:18
Methyl acetate	ND		5.00	1.00	µg/L	1	12/30/10 13:18
Methylene chloride	ND		2.00	0.16	µg/L	1	12/30/10 13:18
trans-1,2-Dichloroethene	ND		0.50	0.10	µg/L	1	12/30/10 13:18
Methyl tert-butyl ether	ND		1.00	0.16	µg/L	1	12/30/10 13:18
1,1-Dichloroethane	ND		0.50	0.10	µg/L	1	12/30/10 13:18
cis-1,2-Dichloroethene	ND		0.50	0.10	µg/L	1	12/30/10 13:18
2-Butanone	ND		10.0	1.00	µg/L	1	12/30/10 13:18
Chloroform	ND		0.50	0.10	µg/L	1	12/30/10 13:18
1,1,1-Trichloroethane	ND		0.50	0.10	µg/L	1	12/30/10 13:18
Cyclohexane	ND		0.50	0.10	µg/L	1	12/30/10 13:18
Carbon tetrachloride	ND		0.50	0.10	µg/L	1	12/30/10 13:18
Benzene	ND		0.50	0.10	µg/L	1	12/30/10 13:18
1,2-Dichloroethane	ND		0.50	0.16	µg/L	1	12/30/10 13:18
Trichloroethene	ND		0.50	0.10	µg/L	1	12/30/10 13:18
Methylcyclohexane	ND		0.50	0.10	µg/L	1	12/30/10 13:18
1,2-Dichloropropane	ND		0.50	0.16	µg/L	1	12/30/10 13:18
Bromodichloromethane	ND		0.50	0.10	µg/L	1	12/30/10 13:18
cis-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	12/30/10 13:18
4-Methyl-2-pentanone	ND		5.00	1.00	µg/L	1	12/30/10 13:18
Toluene	ND		0.50	0.10	µg/L	1	12/30/10 13:18
trans-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	12/30/10 13:18
1,1,2-Trichloroethane	ND		0.50	0.16	µg/L	1	12/30/10 13:18
Tetrachloroethene	ND		0.50	0.10	µg/L	1	12/30/10 13:18
2-Hexanone	ND		5.00	1.00	µg/L	1	12/30/10 13:18

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 01/03/11 9:17 544079 **roject Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057 (315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT	EA Engineering Science and Technology			**Lab ID:**	**K1012255-004A**
Project:	DEC- Autohaus			**Client Sample ID:**	***828084-MW-08S***
W Order:	K1012255			**Collection Date:**	12/22/10 11:45
Matrix:	GROUNDWATER			**Date Received:**	12/23/10 8:23
Inst. ID:	MS04_73	**Sample Size**	10 mL	**PrepDate:**	
ColumnID:	Rtx-VMS	**%Moisture:**		**BatchNo:**	R21279
Revision:	01/03/11 7:34	**TestCode:**	8260W_OLM42	**FileID:**	1-SAMP-R7636.D
Col Type:					

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
Dibromochloromethane	ND		0.50	0.10	µg/L	1	12/30/10 13:18
1,2-Dibromoethane	ND		0.50	0.16	µg/L	1	12/30/10 13:18
Chlorobenzene	ND		0.50	0.10	µg/L	1	12/30/10 13:18
Ethylbenzene	ND		0.50	0.10	µg/L	1	12/30/10 13:18
Xylenes (total)	ND		1.00	0.30	µg/L	1	12/30/10 13:18
Styrene	ND		0.50	0.10	µg/L	1	12/30/10 13:18
Bromoform	ND		1.00	0.33	µg/L	1	12/30/10 13:18
Isopropylbenzene	ND		0.50	0.10	µg/L	1	12/30/10 13:18
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	µg/L	1	12/30/10 13:18
1,3-Dichlorobenzene	ND		0.50	0.10	µg/L	1	12/30/10 13:18
1,4-Dichlorobenzene	ND		0.50	0.16	µg/L	1	12/30/10 13:18
1,2-Dichlorobenzene	ND		0.50	0.10	µg/L	1	12/30/10 13:18
1,2-Dibromo-3-chloropropane	ND		5.00	1.00	µg/L	1	12/30/10 13:18
1,2,4-Trichlorobenzene	ND		1.00	0.10	µg/L	1	12/30/10 13:18
Surr: 1,2-Dichloroethane-d4	112		75-128	0.16	%REC	1	12/30/10 13:18
Surr: Toluene-d8	113		75-125	0.10	%REC	1	12/30/10 13:18
Surr: 4-Bromofluorobenzene	99		75-125	0.10	%REC	1	12/30/10 13:18

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Form 1 TIC

CLIENT SAMPLE NO.

Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

828084-MW-08S

Lab Name: Life Science Laboratories, Inc. Contract: _____

Lab Code: LSLB Case No.: EA SAS No.: _____ SDG No.: K1012255

Matrix: (soil/water) WATER Lab Sample ID: K1012255-004A

Sample wt/vol: 10 (g/mL) ML Lab File ID: R7636.D

Level: LOW Date Received: 12/23/2010

% Moisture: not dec. Date Analyzed: 12/30/2010

GC Column: Rtx-VMS ID: 0.25 (mm) Dilution Factor: 1.00

Extract Volume: _____ (µl)

Number TICs found: 0 CONCENTRATION UNITS: UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057 (315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT	EA Engineering Science and Technology			**Lab ID:**	**K1012255-005A**
Project:	DEC- Autohaus			**Client Sample ID:**	***828084-MW-08D***
W Order:	K1012255			**Collection Date:**	12/22/10 12:40
Matrix:	GROUNDWATER			**Date Received:**	12/23/10 8:23
Inst. ID:	MS04_73	**Sample Size**	10 mL	**PrepDate:**	
ColumnID:	Rtx-VMS	**%Moisture:**		**BatchNo:**	R21279
Revision:	01/03/11 7:34	**TestCode:**	8260W_OLM42	**FileID:**	1-SAMP-R7630.D
Col Type:					

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
Dichlorodifluoromethane	ND		1.00	0.10	µg/L	1	12/30/10 10:15
Chloromethane	ND		1.00	0.33	µg/L	1	12/30/10 10:15
Vinyl chloride	ND		1.00	0.33	µg/L	1	12/30/10 10:15
Bromomethane	ND		1.00	0.33	µg/L	1	12/30/10 10:15
Chloroethane	ND		1.00	0.33	µg/L	1	12/30/10 10:15
Trichlorofluoromethane	ND		1.00	0.10	µg/L	1	12/30/10 10:15
1,1-Dichloroethene	ND		0.50	0.16	µg/L	1	12/30/10 10:15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.10	µg/L	1	12/30/10 10:15
Acetone	ND		10.0	1.00	µg/L	1	12/30/10 10:15
Carbon disulfide	ND		0.50	0.11	µg/L	1	12/30/10 10:15
Methyl acetate	ND		5.00	1.00	µg/L	1	12/30/10 10:15
Methylene chloride	ND		2.00	0.16	µg/L	1	12/30/10 10:15
trans-1,2-Dichloroethene	ND		0.50	0.10	µg/L	1	12/30/10 10:15
Methyl tert-butyl ether	ND		1.00	0.16	µg/L	1	12/30/10 10:15
1,1-Dichloroethane	ND		0.50	0.10	µg/L	1	12/30/10 10:15
cis-1,2-Dichloroethene	ND		0.50	0.10	µg/L	1	12/30/10 10:15
2-Butanone	ND		10.0	1.00	µg/L	1	12/30/10 10:15
Chloroform	0.19	J	0.50	0.10	µg/L	1	12/30/10 10:15
1,1,1-Trichloroethane	ND		0.50	0.10	µg/L	1	12/30/10 10:15
Cyclohexane	ND		0.50	0.10	µg/L	1	12/30/10 10:15
Carbon tetrachloride	ND		0.50	0.10	µg/L	1	12/30/10 10:15
Benzene	ND		0.50	0.10	µg/L	1	12/30/10 10:15
1,2-Dichloroethane	ND		0.50	0.16	µg/L	1	12/30/10 10:15
Trichloroethene	ND		0.50	0.10	µg/L	1	12/30/10 10:15
Methylcyclohexane	ND		0.50	0.10	µg/L	1	12/30/10 10:15
1,2-Dichloropropane	ND		0.50	0.16	µg/L	1	12/30/10 10:15
Bromodichloromethane	0.15	J	0.50	0.10	µg/L	1	12/30/10 10:15
cis-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	12/30/10 10:15
4-Methyl-2-pentanone	ND		5.00	1.00	µg/L	1	12/30/10 10:15
Toluene	ND		0.50	0.10	µg/L	1	12/30/10 10:15
trans-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	12/30/10 10:15
1,1,2-Trichloroethane	ND		0.50	0.16	µg/L	1	12/30/10 10:15
Tetrachloroethene	ND		0.50	0.10	µg/L	1	12/30/10 10:15
2-Hexanone	ND		5.00	1.00	µg/L	1	12/30/10 10:15

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057 (315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT	EA Engineering Science and Technology	**Lab ID:**	**K1012255-005A**
Project:	DEC- Autohaus	**Client Sample ID:**	***828084-MW-08D***
W Order:	K1012255	**Collection Date:**	12/22/10 12:40
Matrix:	GROUNDWATER	**Date Received:**	12/23/10 8:23
Inst. ID:	MS04_73 **Sample Size** 10 mL	**PrepDate:**	
ColumnID:	Rtx-VMS **%Moisture:**	**BatchNo:**	R21279
Revision:	01/03/11 7:34 **TestCode:** 8260W_OLM42	**FileID:**	1-SAMP-R7630.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
Dibromochloromethane	1.31		0.50	0.10	µg/L	1	12/30/10 10:15
1,2-Dibromoethane	ND		0.50	0.16	µg/L	1	12/30/10 10:15
Chlorobenzene	ND		0.50	0.10	µg/L	1	12/30/10 10:15
Ethylbenzene	ND		0.50	0.10	µg/L	1	12/30/10 10:15
Xylenes (total)	ND		1.00	0.30	µg/L	1	12/30/10 10:15
Styrene	ND		0.50	0.10	µg/L	1	12/30/10 10:15
Bromoform	ND		1.00	0.33	µg/L	1	12/30/10 10:15
Isopropylbenzene	ND		0.50	0.10	µg/L	1	12/30/10 10:15
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	µg/L	1	12/30/10 10:15
1,3-Dichlorobenzene	ND		0.50	0.10	µg/L	1	12/30/10 10:15
1,4-Dichlorobenzene	ND		0.50	0.16	µg/L	1	12/30/10 10:15
1,2-Dichlorobenzene	ND		0.50	0.10	µg/L	1	12/30/10 10:15
1,2-Dibromo-3-chloropropane	ND		5.00	1.00	µg/L	1	12/30/10 10:15
1,2,4-Trichlorobenzene	ND		1.00	0.10	µg/L	1	12/30/10 10:15
Surr: 1,2-Dichloroethane-d4	118		75-128	0.16	%REC	1	12/30/10 10:15
Surr: Toluene-d8	112		75-125	0.10	%REC	1	12/30/10 10:15
Surr: 4-Bromofluorobenzene	106		75-125	0.10	%REC	1	12/30/10 10:15

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Form 1 TIC

CLIENT SAMPLE NO.

Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

828084-MW-08D

Lab Name: Life Science Laboratories, Inc. Contract: _____

Lab Code: LSLB Case No.: EA SAS No.: _____ SDG No.: K1012255

Matrix: (soil/water) WATER Lab Sample ID: K1012255-005A

Sample wt/vol: 10 (g/mL) ML Lab File ID: R7630.D

Level: LOW Date Received: 12/23/2010

% Moisture: not dec. Date Analyzed: 12/30/2010

GC Column: Rtx-VMS ID: 0.25 (mm) Dilution Factor: 1.00

Extract Volume: _____ (µl)

Number TICs found: 0 CONCENTRATION UNITS: UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057 (315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT	EA Engineering Science and Technology	**Lab ID:**	**K1012255-006A**
Project:	DEC- Autohaus	**Client Sample ID:**	***828084-MW-11***
W Order:	K1012255	**Collection Date:**	12/22/10 13:15
Matrix:	GROUNDWATER	**Date Received:**	12/23/10 8:23
Inst. ID:	MS04_73 **Sample Size** 10 mL	**PrepDate:**	
ColumnID:	Rtx-VMS **%Moisture:**	**BatchNo:**	R21279
Revision:	01/03/11 7:34 **TestCode:** 8260W_OLM42	**FileID:**	1-SAMP-R7637.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
Dichlorodifluoromethane	ND		1.00	0.10	µg/L	1	12/30/10 13:49
Chloromethane	ND		1.00	0.33	µg/L	1	12/30/10 13:49
Vinyl chloride	ND		1.00	0.33	µg/L	1	12/30/10 13:49
Bromomethane	ND		1.00	0.33	µg/L	1	12/30/10 13:49
Chloroethane	ND		1.00	0.33	µg/L	1	12/30/10 13:49
Trichlorofluoromethane	ND		1.00	0.10	µg/L	1	12/30/10 13:49
1,1-Dichloroethene	ND		0.50	0.16	µg/L	1	12/30/10 13:49
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.10	µg/L	1	12/30/10 13:49
Acetone	ND		10.0	1.00	µg/L	1	12/30/10 13:49
Carbon disulfide	ND		0.50	0.11	µg/L	1	12/30/10 13:49
Methyl acetate	ND		5.00	1.00	µg/L	1	12/30/10 13:49
Methylene chloride	ND		2.00	0.16	µg/L	1	12/30/10 13:49
trans-1,2-Dichloroethene	ND		0.50	0.10	µg/L	1	12/30/10 13:49
Methyl tert-butyl ether	ND		1.00	0.16	µg/L	1	12/30/10 13:49
1,1-Dichloroethane	ND		0.50	0.10	µg/L	1	12/30/10 13:49
cis-1,2-Dichloroethene	ND		0.50	0.10	µg/L	1	12/30/10 13:49
2-Butanone	ND		10.0	1.00	µg/L	1	12/30/10 13:49
Chloroform	ND		0.50	0.10	µg/L	1	12/30/10 13:49
1,1,1-Trichloroethane	ND		0.50	0.10	µg/L	1	12/30/10 13:49
Cyclohexane	ND		0.50	0.10	µg/L	1	12/30/10 13:49
Carbon tetrachloride	ND		0.50	0.10	µg/L	1	12/30/10 13:49
Benzene	ND		0.50	0.10	µg/L	1	12/30/10 13:49
1,2-Dichloroethane	ND		0.50	0.16	µg/L	1	12/30/10 13:49
Trichloroethene	ND		0.50	0.10	µg/L	1	12/30/10 13:49
Methylcyclohexane	ND		0.50	0.10	µg/L	1	12/30/10 13:49
1,2-Dichloropropane	ND		0.50	0.16	µg/L	1	12/30/10 13:49
Bromodichloromethane	ND		0.50	0.10	µg/L	1	12/30/10 13:49
cis-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	12/30/10 13:49
4-Methyl-2-pentanone	ND		5.00	1.00	µg/L	1	12/30/10 13:49
Toluene	0.13	J	0.50	0.10	µg/L	1	12/30/10 13:49
trans-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	12/30/10 13:49
1,1,2-Trichloroethane	ND		0.50	0.16	µg/L	1	12/30/10 13:49
Tetrachloroethene	ND		0.50	0.10	µg/L	1	12/30/10 13:49
2-Hexanone	ND		5.00	1.00	µg/L	1	12/30/10 13:49

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 01/03/11 9:17 544080 **roject Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057 (315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT	EA Engineering Science and Technology	**Lab ID:**	**K1012255-006A**
Project:	DEC- Autohaus	**Client Sample ID:**	***828084-MW-11***
W Order:	K1012255	**Collection Date:**	12/22/10 13:15
Matrix:	GROUNDWATER	**Date Received:**	12/23/10 8:23
Inst. ID:	MS04_73 **Sample Size** 10 mL	**PrepDate:**	
ColumnID:	Rtx-VMS **%Moisture:**	**BatchNo:**	R21279
Revision:	01/03/11 7:34 **TestCode:** 8260W_OLM42	**FileID:**	1-SAMP-R7637.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
Dibromochloromethane	ND		0.50	0.10	µg/L	1	12/30/10 13:49
1,2-Dibromoethane	ND		0.50	0.16	µg/L	1	12/30/10 13:49
Chlorobenzene	ND		0.50	0.10	µg/L	1	12/30/10 13:49
Ethylbenzene	ND		0.50	0.10	µg/L	1	12/30/10 13:49
Xylenes (total)	ND		1.00	0.30	µg/L	1	12/30/10 13:49
Styrene	ND		0.50	0.10	µg/L	1	12/30/10 13:49
Bromoform	ND		1.00	0.33	µg/L	1	12/30/10 13:49
Isopropylbenzene	ND		0.50	0.10	µg/L	1	12/30/10 13:49
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	µg/L	1	12/30/10 13:49
1,3-Dichlorobenzene	ND		0.50	0.10	µg/L	1	12/30/10 13:49
1,4-Dichlorobenzene	ND		0.50	0.16	µg/L	1	12/30/10 13:49
1,2-Dichlorobenzene	ND		0.50	0.10	µg/L	1	12/30/10 13:49
1,2-Dibromo-3-chloropropane	ND		5.00	1.00	µg/L	1	12/30/10 13:49
1,2,4-Trichlorobenzene	ND		1.00	0.10	µg/L	1	12/30/10 13:49
Surr: 1,2-Dichloroethane-d4	117		75-128	0.16	%REC	1	12/30/10 13:49
Surr: Toluene-d8	109		75-125	0.10	%REC	1	12/30/10 13:49
Surr: 4-Bromofluorobenzene	107		75-125	0.10	%REC	1	12/30/10 13:49

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 01/03/11 9:17 544080 **roject Supervisor:** Anthony Crescenzi

Form 1 TIC

CLIENT SAMPLE NO.

Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

828084-MW-11

Lab Name: Life Science Laboratories, Inc. Contract: _____

Lab Code: LSLB Case No.: EA SAS No.: _____ SDG No.: K1012255

Matrix: (soil/water) WATER Lab Sample ID: K1012255-006A

Sample wt/vol: 10 (g/mL) ML Lab File ID: R7637.D

Level: LOW Date Received: 12/23/2010

% Moisture: not dec. Date Analyzed: 12/30/2010

GC Column: Rtx-VMS ID: 0.25 (mm) Dilution Factor: 1.00

Extract Volume: _____ (µl)

Number TICs found: 0 CONCENTRATION UNITS: UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057 (315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT	EA Engineering Science and Technology	**Lab ID:**	**K1012255-007A**
Project:	DEC- Autohaus	**Client Sample ID:**	***828084-MW-12***
W Order:	K1012255	**Collection Date:**	12/22/10 13:45
Matrix:	GROUNDWATER	**Date Received:**	12/23/10 8:23
Inst. ID:	MS04_73 **Sample Size** 10 mL	**PrepDate:**	
ColumnID:	Rtx-VMS **%Moisture:**	**BatchNo:**	R21279
Revision:	01/03/11 7:34 **TestCode:** 8260W_OLM42	**FileID:**	1-SAMP-R7638.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
Dichlorodifluoromethane	0.19	J	1.00	0.10	µg/L	1	12/30/10 14:19
Chloromethane	ND		1.00	0.33	µg/L	1	12/30/10 14:19
Vinyl chloride	ND		1.00	0.33	µg/L	1	12/30/10 14:19
Bromomethane	ND		1.00	0.33	µg/L	1	12/30/10 14:19
Chloroethane	ND		1.00	0.33	µg/L	1	12/30/10 14:19
Trichlorofluoromethane	ND		1.00	0.10	µg/L	1	12/30/10 14:19
1,1-Dichloroethene	ND		0.50	0.16	µg/L	1	12/30/10 14:19
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.10	µg/L	1	12/30/10 14:19
Acetone	ND		10.0	1.00	µg/L	1	12/30/10 14:19
Carbon disulfide	ND		0.50	0.11	µg/L	1	12/30/10 14:19
Methyl acetate	ND		5.00	1.00	µg/L	1	12/30/10 14:19
Methylene chloride	ND		2.00	0.16	µg/L	1	12/30/10 14:19
trans-1,2-Dichloroethene	ND		0.50	0.10	µg/L	1	12/30/10 14:19
Methyl tert-butyl ether	ND		1.00	0.16	µg/L	1	12/30/10 14:19
1,1-Dichloroethane	ND		0.50	0.10	µg/L	1	12/30/10 14:19
cis-1,2-Dichloroethene	ND		0.50	0.10	µg/L	1	12/30/10 14:19
2-Butanone	ND		10.0	1.00	µg/L	1	12/30/10 14:19
Chloroform	ND		0.50	0.10	µg/L	1	12/30/10 14:19
1,1,1-Trichloroethane	ND		0.50	0.10	µg/L	1	12/30/10 14:19
Cyclohexane	ND		0.50	0.10	µg/L	1	12/30/10 14:19
Carbon tetrachloride	ND		0.50	0.10	µg/L	1	12/30/10 14:19
Benzene	ND		0.50	0.10	µg/L	1	12/30/10 14:19
1,2-Dichloroethane	ND		0.50	0.16	µg/L	1	12/30/10 14:19
Trichloroethene	ND		0.50	0.10	µg/L	1	12/30/10 14:19
Methylcyclohexane	ND		0.50	0.10	µg/L	1	12/30/10 14:19
1,2-Dichloropropane	ND		0.50	0.16	µg/L	1	12/30/10 14:19
Bromodichloromethane	ND		0.50	0.10	µg/L	1	12/30/10 14:19
cis-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	12/30/10 14:19
4-Methyl-2-pentanone	ND		5.00	1.00	µg/L	1	12/30/10 14:19
Toluene	ND		0.50	0.10	µg/L	1	12/30/10 14:19
trans-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	12/30/10 14:19
1,1,2-Trichloroethane	ND		0.50	0.16	µg/L	1	12/30/10 14:19
Tetrachloroethene	ND		0.50	0.10	µg/L	1	12/30/10 14:19
2-Hexanone	ND		5.00	1.00	µg/L	1	12/30/10 14:19

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 01/03/11 9:17 544081 **roject Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057 (315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT	EA Engineering Science and Technology	**Lab ID:**	**K1012255-007A**
Project:	DEC- Autohaus	**Client Sample ID:**	***828084-MW-12***
W Order:	K1012255	**Collection Date:**	12/22/10 13:45
Matrix:	GROUNDWATER	**Date Received:**	12/23/10 8:23
Inst. ID:	MS04_73 **Sample Size** 10 mL	**PrepDate:**	
ColumnID:	Rtx-VMS **%Moisture:**	**BatchNo:**	R21279
Revision:	01/03/11 7:34 **TestCode:** 8260W_OLM42	**FileID:**	1-SAMP-R7638.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
Dibromochloromethane	ND		0.50	0.10	µg/L	1	12/30/10 14:19
1,2-Dibromoethane	ND		0.50	0.16	µg/L	1	12/30/10 14:19
Chlorobenzene	ND		0.50	0.10	µg/L	1	12/30/10 14:19
Ethylbenzene	ND		0.50	0.10	µg/L	1	12/30/10 14:19
Xylenes (total)	ND		1.00	0.30	µg/L	1	12/30/10 14:19
Styrene	ND		0.50	0.10	µg/L	1	12/30/10 14:19
Bromoform	ND		1.00	0.33	µg/L	1	12/30/10 14:19
Isopropylbenzene	ND		0.50	0.10	µg/L	1	12/30/10 14:19
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	µg/L	1	12/30/10 14:19
1,3-Dichlorobenzene	ND		0.50	0.10	µg/L	1	12/30/10 14:19
1,4-Dichlorobenzene	ND		0.50	0.16	µg/L	1	12/30/10 14:19
1,2-Dichlorobenzene	ND		0.50	0.10	µg/L	1	12/30/10 14:19
1,2-Dibromo-3-chloropropane	ND		5.00	1.00	µg/L	1	12/30/10 14:19
1,2,4-Trichlorobenzene	ND		1.00	0.10	µg/L	1	12/30/10 14:19
Surr: 1,2-Dichloroethane-d4	117		75-128	0.16	%REC	1	12/30/10 14:19
Surr: Toluene-d8	111		75-125	0.10	%REC	1	12/30/10 14:19
Surr: 4-Bromofluorobenzene	106		75-125	0.10	%REC	1	12/30/10 14:19

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Form 1 TIC

CLIENT SAMPLE NO.

Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

828084-MW-12

Lab Name: Life Science Laboratories, Inc. Contract: _____

Lab Code: LSLB Case No.: EA SAS No.: _____ SDG No.: K1012255

Matrix: (soil/water) WATER Lab Sample ID: K1012255-007A

Sample wt/vol: 10 (g/mL) ML Lab File ID: R7638.D

Level: LOW Date Received: 12/23/2010

% Moisture: not dec. Date Analyzed: 12/30/2010

GC Column: Rtx-VMS ID: 0.25 (mm) Dilution Factor: 1.00

Extract Volume: _____ (µl)

Number TICs found: 0 CONCENTRATION UNITS: UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057 (315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT	EA Engineering Science and Technology	**Lab ID:**	**K1012255-008A**
Project:	DEC- Autohaus	**Client Sample ID:**	***828084-MW-DUP***
W Order:	K1012255	**Collection Date:**	12/22/10 0:00
Matrix:	GROUNDWATER	**Date Received:**	12/23/10 8:23
Inst. ID:	MS04_73 **Sample Size** 10 mL	**PrepDate:**	
ColumnID:	Rtx-VMS **%Moisture:**	**BatchNo:**	R21279
Revision:	01/03/11 7:34 **TestCode:** 8260W_OLM42	**FileID:**	1-SAMP-R7639.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
Dichlorodifluoromethane	ND		1.00	0.10	µg/L	1	12/30/10 14:49
Chloromethane	ND		1.00	0.33	µg/L	1	12/30/10 14:49
Vinyl chloride	ND		1.00	0.33	µg/L	1	12/30/10 14:49
Bromomethane	ND		1.00	0.33	µg/L	1	12/30/10 14:49
Chloroethane	ND		1.00	0.33	µg/L	1	12/30/10 14:49
Trichlorofluoromethane	ND		1.00	0.10	µg/L	1	12/30/10 14:49
1,1-Dichloroethene	ND		0.50	0.16	µg/L	1	12/30/10 14:49
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.10	µg/L	1	12/30/10 14:49
Acetone	ND		10.0	1.00	µg/L	1	12/30/10 14:49
Carbon disulfide	ND		0.50	0.11	µg/L	1	12/30/10 14:49
Methyl acetate	ND		5.00	1.00	µg/L	1	12/30/10 14:49
Methylene chloride	ND		2.00	0.16	µg/L	1	12/30/10 14:49
trans-1,2-Dichloroethene	ND		0.50	0.10	µg/L	1	12/30/10 14:49
Methyl tert-butyl ether	ND		1.00	0.16	µg/L	1	12/30/10 14:49
1,1-Dichloroethane	0.25	J	0.50	0.10	µg/L	1	12/30/10 14:49
cis-1,2-Dichloroethene	0.27	J	0.50	0.10	µg/L	1	12/30/10 14:49
2-Butanone	ND		10.0	1.00	µg/L	1	12/30/10 14:49
Chloroform	ND		0.50	0.10	µg/L	1	12/30/10 14:49
1,1,1-Trichloroethane	ND		0.50	0.10	µg/L	1	12/30/10 14:49
Cyclohexane	ND		0.50	0.10	µg/L	1	12/30/10 14:49
Carbon tetrachloride	ND		0.50	0.10	µg/L	1	12/30/10 14:49
Benzene	ND		0.50	0.10	µg/L	1	12/30/10 14:49
1,2-Dichloroethane	ND		0.50	0.16	µg/L	1	12/30/10 14:49
Trichloroethene	0.55		0.50	0.10	µg/L	1	12/30/10 14:49
Methylcyclohexane	ND		0.50	0.10	µg/L	1	12/30/10 14:49
1,2-Dichloropropane	ND		0.50	0.16	µg/L	1	12/30/10 14:49
Bromodichloromethane	ND		0.50	0.10	µg/L	1	12/30/10 14:49
cis-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	12/30/10 14:49
4-Methyl-2-pentanone	ND		5.00	1.00	µg/L	1	12/30/10 14:49
Toluene	ND		0.50	0.10	µg/L	1	12/30/10 14:49
trans-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	12/30/10 14:49
1,1,2-Trichloroethane	ND		0.50	0.16	µg/L	1	12/30/10 14:49
Tetrachloroethene	1.87		0.50	0.10	µg/L	1	12/30/10 14:49
2-Hexanone	ND		5.00	1.00	µg/L	1	12/30/10 14:49

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 01/03/11 9:17 544082 **roject Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057 (315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT	EA Engineering Science and Technology	**Lab ID:**	**K1012255-008A**
Project:	DEC- Autohaus	**Client Sample ID:**	***828084-MW-DUP***
W Order:	K1012255	**Collection Date:**	12/22/10 0:00
Matrix:	GROUNDWATER	**Date Received:**	12/23/10 8:23
Inst. ID:	MS04_73 **Sample Size** 10 mL	**PrepDate:**	
ColumnID:	Rtx-VMS **%Moisture:**	**BatchNo:**	R21279
Revision:	01/03/11 7:34 **TestCode:** 8260W_OLM42	**FileID:**	1-SAMP-R7639.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
Dibromochloromethane	ND		0.50	0.10	µg/L	1	12/30/10 14:49
1,2-Dibromoethane	ND		0.50	0.16	µg/L	1	12/30/10 14:49
Chlorobenzene	ND		0.50	0.10	µg/L	1	12/30/10 14:49
Ethylbenzene	ND		0.50	0.10	µg/L	1	12/30/10 14:49
Xylenes (total)	ND		1.00	0.30	µg/L	1	12/30/10 14:49
Styrene	ND		0.50	0.10	µg/L	1	12/30/10 14:49
Bromoform	ND		1.00	0.33	µg/L	1	12/30/10 14:49
Isopropylbenzene	ND		0.50	0.10	µg/L	1	12/30/10 14:49
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	µg/L	1	12/30/10 14:49
1,3-Dichlorobenzene	0.39	J	0.50	0.10	µg/L	1	12/30/10 14:49
1,4-Dichlorobenzene	1.87		0.50	0.16	µg/L	1	12/30/10 14:49
1,2-Dichlorobenzene	0.71		0.50	0.10	µg/L	1	12/30/10 14:49
1,2-Dibromo-3-chloropropane	ND		5.00	1.00	µg/L	1	12/30/10 14:49
1,2,4-Trichlorobenzene	ND		1.00	0.10	µg/L	1	12/30/10 14:49
Surr: 1,2-Dichloroethane-d4	117		75-128	0.16	%REC	1	12/30/10 14:49
Surr: Toluene-d8	111		75-125	0.10	%REC	1	12/30/10 14:49
Surr: 4-Bromofluorobenzene	104		75-125	0.10	%REC	1	12/30/10 14:49

Qualifiers:	* Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 01/03/11 9:17 544082 **roject Supervisor:** Anthony Crescenzi

Form 1 TIC

CLIENT SAMPLE NO.

Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

828084-MW-DUP

Lab Name: Life Science Laboratories, Inc. Contract: _____

Lab Code: LSLB Case No.: EA SAS No.: _____ SDG No.: K1012255

Matrix: (soil/water) WATER Lab Sample ID: K1012255-008A

Sample wt/vol: 10 (g/mL) ML Lab File ID: R7639.D

Level: LOW Date Received: 12/23/2010

% Moisture: not dec. Date Analyzed: 12/30/2010

GC Column: Rtx-VMS ID: 0.25 (mm) Dilution Factor: 1.00

Extract Volume: _____ (µl)

Number TICs found: 6 CONCENTRATION UNITS: UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q
1		unknown 18.350	18.35	1.17	J
2		unknown 18.970	18.97	1.32	J
3		unknown 19.850	19.85	1.94	J
4	000527-84-4	Benzene, 1-methyl-2-(1-methyle	20.41	1.20	JN
5		unknown 20.550	20.55	1.06	J
6		unknown 21.090	21.09	1.39	J

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057 (315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT	EA Engineering Science and Technology	**Lab ID:**	**K1012255-009A**
Project:	DEC- Autohaus	**Client Sample ID:**	***Trip Blank***
W Order:	K1012255	**Collection Date:**	12/22/10 9:40
Matrix:	WATER Q	**Date Received:**	12/23/10 8:23
Inst. ID:	MS04_73	**Sample Size** 10 mL	**PrepDate:**
ColumnID:	Rtx-VMS	**%Moisture:**	**BatchNo:** R21279
Revision:	01/03/11 7:34	**TestCode:** 8260W_OLM42	**FileID:** 1-SAMP-R7640.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
Dichlorodifluoromethane	ND		1.00	0.10	µg/L	1	12/30/10 15:19
Chloromethane	ND		1.00	0.33	µg/L	1	12/30/10 15:19
Vinyl chloride	ND		1.00	0.33	µg/L	1	12/30/10 15:19
Bromomethane	ND		1.00	0.33	µg/L	1	12/30/10 15:19
Chloroethane	ND		1.00	0.33	µg/L	1	12/30/10 15:19
Trichlorofluoromethane	ND		1.00	0.10	µg/L	1	12/30/10 15:19
1,1-Dichloroethene	ND		0.50	0.16	µg/L	1	12/30/10 15:19
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50	0.10	µg/L	1	12/30/10 15:19
Acetone	ND		10.0	1.00	µg/L	1	12/30/10 15:19
Carbon disulfide	ND		0.50	0.11	µg/L	1	12/30/10 15:19
Methyl acetate	ND		5.00	1.00	µg/L	1	12/30/10 15:19
Methylene chloride	0.41	J	2.00	0.16	µg/L	1	12/30/10 15:19
trans-1,2-Dichloroethene	ND		0.50	0.10	µg/L	1	12/30/10 15:19
Methyl tert-butyl ether	ND		1.00	0.16	µg/L	1	12/30/10 15:19
1,1-Dichloroethane	ND		0.50	0.10	µg/L	1	12/30/10 15:19
cis-1,2-Dichloroethene	ND		0.50	0.10	µg/L	1	12/30/10 15:19
2-Butanone	ND		10.0	1.00	µg/L	1	12/30/10 15:19
Chloroform	0.13	J	0.50	0.10	µg/L	1	12/30/10 15:19
1,1,1-Trichloroethane	ND		0.50	0.10	µg/L	1	12/30/10 15:19
Cyclohexane	ND		0.50	0.10	µg/L	1	12/30/10 15:19
Carbon tetrachloride	ND		0.50	0.10	µg/L	1	12/30/10 15:19
Benzene	ND		0.50	0.10	µg/L	1	12/30/10 15:19
1,2-Dichloroethane	ND		0.50	0.16	µg/L	1	12/30/10 15:19
Trichloroethene	ND		0.50	0.10	µg/L	1	12/30/10 15:19
Methylcyclohexane	ND		0.50	0.10	µg/L	1	12/30/10 15:19
1,2-Dichloropropane	ND		0.50	0.16	µg/L	1	12/30/10 15:19
Bromodichloromethane	ND		0.50	0.10	µg/L	1	12/30/10 15:19
cis-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	12/30/10 15:19
4-Methyl-2-pentanone	ND		5.00	1.00	µg/L	1	12/30/10 15:19
Toluene	ND		0.50	0.10	µg/L	1	12/30/10 15:19
trans-1,3-Dichloropropene	ND		0.50	0.16	µg/L	1	12/30/10 15:19
1,1,2-Trichloroethane	ND		0.50	0.16	µg/L	1	12/30/10 15:19
Tetrachloroethene	0.40	J	0.50	0.10	µg/L	1	12/30/10 15:19
2-Hexanone	ND		5.00	1.00	µg/L	1	12/30/10 15:19

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 01/03/11 9:17 544083 **roject Supervisor:** Anthony Crescenzi

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057 (315) 445-1105

Analytical Results

StateCertNo: 10248

CLIENT	EA Engineering Science and Technology	**Lab ID:**	**K1012255-009A**
Project:	DEC- Autohaus	**Client Sample ID:**	***Trip Blank***
W Order:	K1012255	**Collection Date:**	12/22/10 9:40
Matrix:	WATER Q	**Date Received:**	12/23/10 8:23
Inst. ID:	MS04_73 **Sample Size** 10 mL	**PrepDate:**	
ColumnID:	Rtx-VMS **%Moisture:**	**BatchNo:**	R21279
Revision:	01/03/11 7:34 **TestCode:** 8260W_OLM42	**FileID:**	1-SAMP-R7640.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
Dibromochloromethane	ND		0.50	0.10	µg/L	1	12/30/10 15:19
1,2-Dibromoethane	ND		0.50	0.16	µg/L	1	12/30/10 15:19
Chlorobenzene	ND		0.50	0.10	µg/L	1	12/30/10 15:19
Ethylbenzene	ND		0.50	0.10	µg/L	1	12/30/10 15:19
Xylenes (total)	ND		1.00	0.30	µg/L	1	12/30/10 15:19
Styrene	ND		0.50	0.10	µg/L	1	12/30/10 15:19
Bromoform	ND		1.00	0.33	µg/L	1	12/30/10 15:19
Isopropylbenzene	ND		0.50	0.10	µg/L	1	12/30/10 15:19
1,1,2,2-Tetrachloroethane	ND		0.50	0.10	µg/L	1	12/30/10 15:19
1,3-Dichlorobenzene	ND		0.50	0.10	µg/L	1	12/30/10 15:19
1,4-Dichlorobenzene	ND		0.50	0.16	µg/L	1	12/30/10 15:19
1,2-Dichlorobenzene	ND		0.50	0.10	µg/L	1	12/30/10 15:19
1,2-Dibromo-3-chloropropane	ND		5.00	1.00	µg/L	1	12/30/10 15:19
1,2,4-Trichlorobenzene	ND		1.00	0.10	µg/L	1	12/30/10 15:19
Surr: 1,2-Dichloroethane-d4	116		75-128	0.16	%REC	1	12/30/10 15:19
Surr: Toluene-d8	111		75-125	0.10	%REC	1	12/30/10 15:19
Surr: 4-Bromofluorobenzene	104		75-125	0.10	%REC	1	12/30/10 15:19

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
	P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Form 1 TIC

CLIENT SAMPLE NO.

Volatile Organic Compounds by GC/MS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

Trip Blank

Lab Name: Life Science Laboratories, Inc. Contract: _____

Lab Code: LSLB Case No.: EA SAS No.: _____ SDG No.: K1012255

Matrix: (soil/water) WATER Lab Sample ID: K1012255-009A

Sample wt/vol: 10 (g/mL) ML Lab File ID: R7640.D

Level: LOW Date Received: 12/23/2010

% Moisture: not dec. Date Analyzed: 12/30/2010

GC Column: Rtx-VMS ID: 0.25 (mm) Dilution Factor: 1.00

Extract Volume: _____ (µl)

Number TICs found: 0 CONCENTRATION UNITS: UG/L

CAS NUMBER	COMPOUND NAME	RT	EST.CONC.	Q