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Revitalizing Auto Communities Environmental Response Trust

2011 Corrective Measures Implementation (CMI) Annual Report

Buick City (Formerly General Motors Corporation North American Operations Facility)

Flint, Michigan

April 2, 2012

ARCADIS

2011 CMI Annual Report

Revitalizing Auto Communities
Environmental Response Trust
Buick City Site
Flint, Michigan

Christopher S. Peters, P.G.
Vice President

Prepared for:
Revitalizing Auto Communities
Environmental Response Trust

Prepared by:
ARCADIS G&M of Michigan, LLC
10559 Citation Drive
Suite 100
Brighton
Michigan 48116
Tel 810.229.8594
Fax 810.229.8837

Our Ref.:
B0064410.2012.01202

Date:
April 2, 2012

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List of Acronyms, Abbreviations, and Units of Measurement

AOI	Area of Interest
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
BBL	Blasland, Bouck and Lee
BGS	Below Ground Surface
CLP-type	Contract Laboratory Program - type
CMI	Corrective Measures Implementation
CMP	Corrective Measures Plan
CSX	CSX Corporation
EC	Electrical Conductivity
FSP	Field Sampling Plan
GMC	General Motors Corporation
GPS	Global Positioning System
GSI	Groundwater/Surface Water Interface
HASP	Health and Safety Plan
HDPE	High Density Polyethylene
HHRA	Human Health Risk Assessment
HSWA	Hazardous and Solid Waste Amendments
LIF	Laser Induced Fluorescence
LNAPL	Light Non-Aqueous Phase Liquid
MDEQ	Michigan Department of Environmental Quality
MLC	Motors Liquidation Company
mg/kg	Milligrams Per Kilogram
mg/L	Milligrams Per Liter
MP	Monitoring Point
MPE	Multi Phase Extraction
mS/m	Millisiemens Per Meter
NDW	Non-residential Drinking Water
NIOSH	National Institute for Occupational Safety and Health
NSZD	Natural Source Zone Depletion
NPDES	National Pollutant Discharge Elimination System

NPMP	NPDES Plus Monitoring Program
NTU	Nephelometric Turbidity Units
PAH	Polycyclic Aromatic Hydrocarbon
PCBs	Polychlorinated Biphenyls
RACER	Revitalizing Auto Communities Environmental Response
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
QAPP	Quality Assurance Project Plan
SDG	Sample Delivery Group
SOP	Standard Operating Procedure
SVOC	Semi-volatile Organic Compound
TSCA	Toxic Substances Control Act
TSS	Total Suspended Solid
µg/L	Micrograms per Liter
USEPA	United States Environmental Protection Agency
UST	Underground Storage Tank
UVOST	Ultraviolet Optical Sensing Tool
VOC	Volatile Organic Compound
WMU	Waste Management Unit
%RE	Percentage of Reference Emitter

1. Overview of Corrective Measures Implemented

This 2011 Corrective Measures Implementation (CMI) Annual Report was prepared by ARCADIS on behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust for the Buick City Site (formerly known as General Motors Corporation [GMC] North American Operations) (the Site), located in Flint, Michigan. On April 1, 2011 the environmental remediation of the property was transitioned from Motors Liquidation Company (MLC) to RACER Trust.

The CMI *Work Plan - Southend of the Former General Motors Corporation North American Operations Facility (Otherwise Known as Buick City)* (CMI Work Plan) was submitted to the United States Environmental Protection Agency (USEPA) on August 13, 2010. The CMI Work Plan was prepared to comply with requirements of the Solid Waste Disposal Act as amended by the Resource Conservation and Recovery Act of 1976 (RCRA) and the Hazardous and Solid Waste Amendments of 1984 (HSWA), 42 U.S.C. § 6901 et seq., and USEPA regulations at 40 C.F.R. Parts 260-271 and Part 124. This annual report was prepared to document and summarize corrective measures completed and implemented during the 2011 calendar year as well as investigations, testing and other activities completed in support of corrective measures design and implementation. The corrective measures are being implemented in accordance with the *Final Decision and Response to Comments* (Final Decision) for the Southend of the Site issued by the USEPA on May 13, 2010.

1.1 Introduction

The Site is located at 902 East Leith Street in Flint, Michigan, in Genesee County and encompasses approximately 452 acres of land. It is generally bounded to the north by Stewart Avenue and Pierson Road, to the south by Harriet Street, to the east by James P. Cole Boulevard and CSX Corporation (CSX) CSX Railroad, and to the west by Industrial Avenue and North Street. The portion of the Site located north of Leith Street (hereafter referred to as the Northend) was in part occupied by GMC for manufacturing operations until December 6, 2010. The factories located in the Northend of the Site are either undergoing decommissioning/demolition or are slated for demolition. Factory demolition has been completed in the portion of the property located south of Leith Street, which is referred to as the Southend. A Site Location map is included as **Figure 1**.

1.2 Summary of 2011 Corrective Measures

The following Corrective Measures were implemented in 2011 and are discussed further in their respective sections of the report.

- A Laser Induced Fluorescence (LIF) investigation was performed at the Site from October 10 through October 28, 2011. The purpose of the LIF investigation was to further define the vertical and horizontal extent of Light Non Aqueous Phase Liquid (LNAPL) impacts at the Site from historic Site operations.

- The annual groundwater monitoring event was conducted from October 18 through October 28, 2011. The purpose of the annual groundwater monitoring event is to monitor groundwater quality and flow patterns, and LNAPL plumes at the Site.

- The "NPDES Plus" monitoring program (NPMP) was continued at the Site to evaluate compliance with Michigan Part 201 Groundwater Surface Water Interface (GSI) criteria for the long-term protection of the Flint River. The NPMP consists of collecting monthly samples from up to 11 Site storm sewers during dry weather flow to assess the impact of groundwater infiltrating into the Site storm sewers.

- Quarterly inspections of surface cover in select areas were completed in order to protect future Site users from near surface soils that exceed direct contact criteria. The engineering controls include maintaining the surface cover consistent with existing conditions at five Areas of Interest (AOIs) located in the Southend of the Site.

- Additional soil sampling activities were completed in the AOI 09-B South area in September 2011 to further refine the current understanding of the horizontal and vertical extent of lead impacted soil in the vicinity of monitoring well/soil sampling location RFI-09-56 and to more accurately define the area requiring engineering controls (i.e. surface cover) to provide protection from potential direct contact exposure.

In addition to the above corrective measures this report also includes a brief summary of the following significant activities completed at the Site in 2011:

- The Outfall 003/004 Storm Water Diversion and Treatment System (Outfall 003/004 System) installation was completed in January 2011. The Outfall 003/004 System continues to operate and is maintained by an operations and maintenance

technician. Maintenance procedures and events occur based on field observations and levels.

- Outfall containment areas continue to be inspected for oil/debris accumulation, absorbent boom saturation, and that the containment booms are in good condition and functioning properly.

- Closure activities for the Factory 36 Waste Management Unit (WMU) #1 were completed and closure status was received from the Michigan Department of Environmental Quality (MDEQ) on September 20, 2011. The Northend WMU closure work plan received MDEQ approval on August 4, 2011. Closure activities for Northend WMUs #4 and #5 were completed on October 10, 2011. Closure sampling activities for WMU #4, #5, and #6 (also located in the Northend) were completed on December 15, 2011.

2. LNAPL Characterization

LNAPL characterization activities were conducted at the Site consistent with the LIF Work Plan dated June 23, 2011 and the CMI Work Plan, prepared by ARCADIS. The LNAPL characterization through LIF investigations was organized into three phases. The first phase of the LIF investigation was conducted at the Southend of the Site in 2010 and reported in the April 2010 Corrective Measures Implementation Report (2010 CMI Report). The second phase of the LIF investigation was conducted in 2011 and was designed to address data gaps in the Southend and target areas of the Northend not affected by demolition activities. The results of the 2011 investigation are reported in Section 2.1, below. The third phase of the investigation is planned to be conducted in 2012 and will target areas that could not be accessed due to demolition as well as data gaps from the first two phases of investigation.

2.1 LIF Investigation

The 2011 LIF investigation was performed to further delineate the vertical and lateral extent of the LNAPL areas located in the Northend of the Site and to further define the extent of LNAPL impacts at the Southend of the Site in conjunction with the LIF Investigation completed in August 2010. The known LNAPL areas included in this investigation in the Northend are located at AOI 03-1, AOI 10-4, AOIs 36-1 (2 plumes), 36-2, and 36-5, AOI 81-2, AOIs 83/84-2 and 83/84-4, and AOI 86-1 (**Figure 2a**). The known LNAPL areas in the Southend are located at AOI 02-B, AOI 12-A, -B, and -C, AOI 16-C, and AOIs 40 –A and –B (**Figure 2b**).

2.1.1 Summary of Field Activities

ARCADIS and Matrix Environmental, LLC of Osseo, Minnesota (Matrix) conducted the LIF investigation from October 10 through October 31, 2011. The purpose of the LIF investigation was to further define the vertical and horizontal extent of LNAPL impacts from historic Site activities. Matrix provided the LIF equipment and advanced LIF soil probes under the direct supervision of ARCADIS personnel.

During the 2011 investigation a total of 130 borings were advanced at the Site. At the Northend of the Site 107 LIF borings were completed and 23 LIF borings were completed in the Southend, The borings were completed to an average depth of approximately 30 feet below ground surface (bgs). The LIF borings were completed at five AOIs in the Northend and four AOIs in the Southend known to be impacted by LNAPL, as indicated below.

Northend – 2011						
Area of Interest	**AOI 03-1**	**AOI 10-4**	**AOIs 36-1, 36-2, and 36-5**	**AOI 81-2**	**AOIs 83/84-2 and 83/84-4**	**AOI 86-1**
Number of Borings	3	16	52	11	20	5

Southend – 2011				
Area of Interest	**AOI 02-B**	**AOI 12-A, -B, and -C**	**AOI 16-C**	**AOI 40-A and -B**
Number of Borings	6	4	9	4

LIF boring locations were focused in the areas where LNAPL has been observed in monitoring wells in order to further delineate the extent of LNAPL in the soil. Additional "step out" borings were completed to delineate impacts. **Figure 2a** (Northend) and **Figure 2b** (Southend) present the locations of the LIF borings and step out locations. **Figure 2b** also presents the 2010 data for the AOIs delineated in 2011.

There were extensive demolition activities in the Northend during the LIF investigation; limiting access to multiple areas of the site. The third phase of the LIF investigation will target these data gaps.

2.1.2 Description of LIF Technology

LIF investigations are conducted by advancing an ultraviolet optical sensing tool (UVOST®) probe in areas of known or suspected LNAPL impact. The UVOST® probe emits an ultraviolet excitation light and captures returning fluorescence. Polycyclic aromatic hydrocarbon (PAH) compounds, which are a component of common petroleum fuels, readily fluoresce when exposed to ultraviolet light. The magnitude of fluorescence is proportional to the LNAPL saturation within the soil. The fluorescence observed is quantified by comparison to the response of a standard reference solution, known as the reference emitter; the results are expressed as a percentage of reference emitter (%RE) response. Instrument response is expected in areas with no LNAPL impacts due to the fluorescent properties of native soil materials. However, background fluorescence is typically weak as compared to LNAPL fluorescence and does not greatly diminish instrument sensitivity.

The UVOST® probe detects four distinct fluorescent light wavelengths; the relative returns of each wavelength at a given depth are collectively referred to as a waveform. Differences in waveform patterns may indicate differences in the subsurface environment or in LNAPL composition. Waveform changes are indicated by color shifts

in the LIF boring log; snapshots of waveforms at selected depths are presented as callouts on each log.

The return (fluorescent) light signal is analyzed in real time by onsite equipment. As the probe is advanced downward, the fluorescence data form a vertical profile of LNAPL impact present at the soil boring location. Results were reviewed after completing each LIF boring and considered when selecting subsequent locations.

An electrical conductivity (EC) point is advanced along with the UVOST® probe at each boring location. EC is the measure of the soils ability to conduct an electrical current measured on the UVOST® probe. Each boring log includes the vertical profile of the EC data recorded in milliseimens per meter (mS/m) in addition to the fluorescence data. The soil type can be determined by the EC data since soil is in the pathway of the electrical current flow. The grain size can thus be determined by comparing the EC log to a soil boring. Conductivity data in the 100s mS/m indicate smaller grain material such as clay, and data in the 10s of mS/m indicate larger grain material such as sand and gravel. The EC data has not been correlated to Site specific soil types, however, the data is used to assist in the evaluation of LNAPL distribution.

2.1.3 LIF Investigation Methodology

The following methods/practices were employed during implementation of the investigation event.

- The UVOST® probe was advanced using a track-mounted direct-push rig.
- The first five feet of all borings were advanced using a hand auger or air-knife; therefore, LIF responses from 0 to 5 ft bgs were not included in the analysis.
- Based on a correlation of the observed fluorescence with field data indicative of LNAPL it was determined that LIF readings of less than 5 %RE were attributable to background fluorescence and/or insignificant.
- Boreholes were abandoned with bentonite chips after completion and sealed with cement.

2.1.4 Summary of Results

The LIF logs were analyzed to determine the lateral and vertical extent of LNAPL in the subsurface and LNAPL speciation. Visual observations and interpretations of the 130

LIF logs established a site-specific "background" fluorescence response. If a response was less than 5%RE or the max %RE was at a depth less than 5 feet bgs (the area that was hand cleared in the boring), these responses were considered attributable to "background". LIF responses greater than this "background" level were considered indicative of LNAPL impact. The table below displays the number of borings performed and the number of borings observed above background. Borings that exhibit LIF responses below background are areas not affected with LNAPL and assist in delineating the horizontal extent of LNAPL.

Refusal was encountered in a number of borings before reaching the target depth, as shown in the table below. If refusal was encountered and LIF responses greater than background were observed, the boring was included in the analysis on a limited basis. These borings were used as an indicator that the area is affected by LNAPL; however, nothing is concluded about vertical delineation.

Northend – 2011						
Location	**AOI 03-1**	**AOIs 10-4**	**AOIs 36-1, 36-2, and 36-5**	**AOI 81-2**	**AOIs 83/84-2 and 83/84-4**	**AOI 86-1**
Total # of Borings	3	16	52	11	20	5
# of Borings Exhibiting LIF Response Above Background	3	6	40	7	16	1
# of Borings Where Refusal was Encountered	0	1	3	1	3	1

Southend - 2011				
Location	**AOI 02-B**	**AOI 12-A, -B, and -C**	**AOI 16-C**	**AOI 40-A and -B**
Total # of Borings	6	4	9	4
# of Borings Exhibiting LIF Response Above Background	3	1	2	3
# of Borings Where Refusal was Encountered	2	0	5	0

LIF borings were identified as LIF, followed by the AOI number in which the boring was located, followed by the boring number (the order that the borings were drilled in that AOI) as LIF-XX-YYY. As an example, the 17th LIF boring drilled in AOI 40 would be identified as LIF-40-017.

Figures 2a and 2b show the areal distribution of LIF response as color coded dots based on the maximum fluorescence at each LIF boring in the Northend and Southend, respectively. **Figure 2b** also presents the 2010 data for the AOIs delineated in 2011. **Table 1** summarizes the results of the 2011 LIF investigation. LIF boring logs that graphically present the output generated by the LIF equipment are included as a Direct Sensing Report by Matrix presented in **Appendix A**.

2.1.4.1 Areal Distribution of Impacts in Northend

The distribution of LIF responses was evaluated to determine the areal distribution of LNAPL impacts. All areas targeted for investigation in the Northend had some degree of LIF response; however due to access imitations due to demolition activities, full delineation was not possible. Additional delineation is planned during 2012 activities. **Figures 2a** shows the areal distribution of LIF response as color coded dots based on the maximum fluorescence at each LIF boring in the Northend.

AOI 03-1

AOI 03-1 is located south of Stewart Avenue, east of Division Street (vacated) and west of on-site decommissioned railroad tracks. The LIF investigation was planned in this vicinity to evaluate historical LNAPL observations at monitoring well 03-03R. Only three borings were pushed in this area, and the highest LIF response was observed at LIF-03-002 at 319%. The other two borings had significantly lower responses indicating the LNAPL in this AOI is limited in extent. Additional delineation is required to the north and south.

AOI 10-4

AOI 10-4 is located south of Stewart Avenue, east of Division Street (vacated) and west of on-site decommissioned railroad tracks. The LIF investigation was planned in this area to delineate the extent of the AOI 10-4 LNAPL plume. The highest LIF response was observed on the eastern edge of the plume at LIF-10-002 (276%); however, borings placed further east show significant decreases in the LIF response. A number of LIF borings located along the AOI 10-4 plume edge (as interpreted by

LNAPL detect/non-detect in monitoring wells) were non-detect for LNAPL. Based on these non-detections only a few more borings are necessary to complete delineation.

AOIs36-1, 36-2, and 36-5

AOIs 36-1 and 36-2 are located north of Stewart Avenue, West of the CSX Railroad tracks and East of Andrew Street in the area of former Factory 36. AOI 36-5 is located south of Stewart Avenue, West of the CSX Railroad tracks and East of Andrew Street in the area of former Tank farm 37. There are four observed LNAPL plumes at AOI 361, 36-2, and 36-5. The AOI 36-1 Mineral Seal/Hydraulic Oil (MS/HO) plume LNAPL plume is located in the center of the Former Factory 36 slab. The AOI 36-1 Gasoline plume is the smallest of the four plumes and is located on the south central portion of the Factory 36 Slab near well RFI-36-07. The AOI 36-2 MS/HO plume is located from the southeast edge of the Factory 36 slab to the fence along the CSX railroad tracks. The AOI 36-5 plume is located just south of Stewart Street at AOI-36-5. The highest LIF responses were detected within and to the northwest of the AOI 36-1 MS/HO plume, with 14 responses all above 225% RE. Two boring locations near the AOI 36-2 MS/HO plume also exhibited elevated responses of 257% and 236% RE (LIF-36-BD and LIF-36-BA, respectively). The LIF borings indicate that AOI 36-1 MS/HO, AOI 36-1 gasoline, and AOI 36-2 MS/HO plumes are not separate and distinct, but actually co-mingled. Additional delineation, especially to the north and west, is required in this area. AOI 36-5 across Stewart Street is a separate plume and is delineated, except for a small area to the southeast.

AOI 81-2

AOI 81-2 is located west of the CSX railroad tracks, east of former Factory 81 and north of Leith Street. LIF boring, LIF-81-002, had a response of 208% and three other borings had elevated responses above 100% RE, LIF-81-003 (136%), LIF-81-004 (192%), and LIF-81-009 (112%). Additional delineation is required to the west and east.

AOIs 83/84-2 and 83/84-4

AOIs 83/84-2 and 83/84-4 are located on the former Factory 83/43 slab, north of Leith Street, east of Industrial Avenue and east of Division Street (vacant). Elevated responses were identified in the vicinity of LIF 83-003, LIF-83-006, LIF-83-015 and LIF-83-016. Additional delineation is necessary to determine the extent of the three plumes.

AOI 86-1

AOI 86-1 is located north of Leith Street and west of the CSX railroad tracks. Five borings were installed during this investigation. Only one boring, LIF-86-004, had a response greater than background (400.3 % RE). Additional delineation is necessary to determine the extent of the plume.

2.1.4.2 Areal Distribution of Impacts in Southend

A limited number of LIF borings were advanced to address data gaps in the Southend. **Figure 2b** shows the areal distribution of LIF response as color coded dot based on the maximum fluorescence at each LIF boring in the Southend.

AOIs 12-A, -B, and -C

AOIs 12-A, -B, and -C are located south of Leith Street, north of Hamilton Avenue, east of Division Street (vacated) and west of Industrial Avenue. There were four additional LIF borings advanced to delineate the plume to the south. The highest response of the four borings was 27% RE at LIF-12-044. The other three borings were all below background levels and completed the delineation of the LNAPL plume at AOI 12-A to the south. Additional borings are necessary across Leith Street to delineate the plume to the north.

AOI 02-B, AOI 40-A, and -B, and AOI 16-C

AOI 02-B is located between Division Street (vacated) and the CSX railroad tracks. AOI 40-A and –B are located south of AOI 02-B between Division Street (vacated) and the CSX railroad property and AOI 16-C is southwest of AOI 40-B along Division Avenue (vacated). The extent of LNAPL impacts at AOI 02-B, AOI 40-A and -B, and AOI 16-C (Figure 2) appear to create one comingled area of impact. This area extends approximately 1400 feet northwest to southeast, from the CSX railroad, west to Division Street (vacated). Thirteen boring locations were selected to further delineate the horizontal extent of the impacts. Borings were advanced to the north, south, east and west of the area of impact and only one boring had an elevated response. LIF-16-023 is the farthest southeastern boring in the area, which had an LIF response of 222%. The remaining 12 LIF borings completed in this area where considered to be non-detect for LNAPL. Additional delineation is recommended on the east side of the railroad tracks in the vicinity of AOI 02-B and on the west side of AOI 16-C.

2.1.4.3 Vertical Distribution of Impacts in the Northend

The distribution of LIF responses was evaluated to determine the vertical distribution of LNAPL impacts. LIF boring logs that graphically present the output generated by the LIF equipment are included as a Direct Sensing Report by Matrix in **Appendix A**.

AOI 03-1

The vertical distribution of LIF impacts at AOI 03-1 typically ranges from 6 to 21 feet bgs. In the two borings that reached the target bottom depth (25 feet bgs), the LIF responses returned to background levels.

AOI 10-4

The vertical distribution of LIF impacts at AOI 10-4 typically ranges from 5 to 16 feet bgs. There is also a deeper, minor response (both in vertical thickness and LIF intensity) in a number of borings with the deepest impacts to 27 feet bgs. Most borings were extended to 30 feet bgs and returned to background levels indicating the LNAPL is vertically defined.

AOIs 36-1, 36-2, and 36-5

AOIs 36-1, 36-2, and 36-5 had impacts that ranged vertically from 5 to 25 feet bgs with the greatest impacts observed between 12 and 15 feet bgs. The deepest impact was observed at 32 feet bgs at LIF-36-044 and decreased to background before the boring was terminated. Most borings were extended to 30 feet bgs and returned to background levels indicating the LNAPL is vertically defined.

AOI 81-2

The observed vertical distribution of impact at AOI 81-2 was primarily between 5 and 11 feet bgs. One boring, LIF-81-004, had minor LIF responses above background at 20 feet bgs, with an observed fluorescence of 6.8% RE. The LIF response returned to background before the boring was terminated, indicating the vertical distribution has been defined.

AOIs 83/84-2 and 83/84-4

The range of vertical impacts was observed between 5 and 29 feet bgs at AOIs 83/84-2 and 83/84-4. The deepest impact was observed at 16.8 feet bgs at LIF-83-006

(417.6% RE). All borings that reached their target depth returned to background conditions.

AOI 86-1

There was only one boring at AOI 86-1 with fluorescence observed above background. LIF-86-004 had vertical impact from 14 to 20 feet bgs (219.4% RE) and again from 29 to 32 (400.3 % RE) feet bgs. This boring was located just north of Leith Street to the west of the CSX railroad tracks.

2.1.4.4 Vertical Distribution of Impacts in the Southend

The few LIF borings responses greater than background advanced in the Southend were consistent with observations from 2010. LIF boring logs that graphically present the output generated by the LIF equipment are included as a Direct Sensing Report by Matrix Environmental in **Appendix A**.

2.1.4.5 LNAPL Speciation

The LIF waveform signatures observed at the site are consistent with the known LNAPLs at the AOIs. AOI 02-B, AOI 10-4, and AOIs 12-A, -B, and -C, have responses consistent with hydraulic oil. The LIF responses in AOI 03-1 are consistent with quench oil. LIF responses in AOI 81-2 and AOIs 83/84-2 and 83/84-4 are consistent with cutting oil responses and AOI 86-1, AOI 16-C and AOI 40-A and -B are consistent with a fuel oil response. The LIF response at the co-mingled LNAPL plumes in AOIs 36-1 and 36-2 is consistent with the known LNAPL types, weathered gasoline and MS/HO. The gasoline responses appear to be characteristic of weathered product and are limited in the area. The LIF responses from AOI-36-5 are consistent with fuel oil responses.

2.1.4.6 Correlation of LIF Data to Monitoring Well Data

Where appropriate, LIF data was compared to fluid-level data in nearby monitoring wells to determine the degree that the LNAPL smear zone observed in the LIF borings correlates to observations of LNAPL accumulation in monitoring wells. The comparison indicates that LIF responses greater than background generally have co-located wells with some degree of LNAPL observations; however, LNAPL observations in monitoring wells do not clearly correlate to the degree of impact observed in LIF borings. The comparison of elevated LIF responses to observation of LNAPL accumulation in monitoring wells was evaluated in the 2010 CMI and demonstrated that:

- LIF borings with elevated responses do show some degree of LNAPL in neighboring monitoring wells.

- The magnitude of LNAPL accumulation in site monitoring wells is not an accurate measure of the degree of LNAPL impact near those wells.

- LIF investigations provide additional delineation of the vertical and horizontal extent of LNAPL in the subsurface.

2.1.5 Conclusions and Future Activities

The LIF investigation event yielded valuable data on the areal and vertical extent of LNAPL impacts. Delineation of LNAPL impacts were complete if the LIF response at a boring are at background levels for areal extent or returns to background levels for vertical extent. Additionally, areal delineation is inferred using multiple lines of evidence including reduction of LIF response intensity and vertical response over distance, and changes in LIF response type. The following conclusions were made based on review and analysis of the investigation and historical site data:

AOI 03-1

- Areal LNAPL delineation is not complete at AOI 03-1. The three borings advanced indicate the LNAPL plume is minor and a few additional borings to the north and south are necessary to complete the delineation.

- Vertical LNAPL delineation at AOI 03-1 is complete, with the bottom of the LIF impacted zone identified in the boring logs.

- Quench oil is thought to be the predominant product type.

AOI 10-4

- Areal LNAPL delineation is not complete at AOI 10-4. Active demolition on-site prevented access to the north and west of AOI 10-4. However, areal LNAPL delineation is complete along the east side near the railroad tracks.

- Vertical LNAPL delineation at AOI 10 is complete, with the bottom of the LIF impacted zone identified in the boring logs.

- During the LIF investigation, Factory 10 was undergoing demolition. Upon demolition of Factory 10, delineation to the north and west at AOI 10-4 will be possible.

- Due to the active demolition on-site, LIF borings were unable to be advanced near monitoring wells with accumulated LNAPL. Future borings should be advanced in these areas to determine whether the magnitude of LNAPL accumulation in site monitoring wells is an indicator of the degree of LNAPL impact near those wells.

- Hydraulic oil is thought to be the predominant product type.

AOIs 36-1, 36-2, and 36-5

- Areal LNAPL delineation is not complete at AOIs 36-1, 36-2, and 36-5. The north and west portions of the Factory 36 slab need to be further delineated to determine the extent of the impacts.

- Vertical LNAPL delineation at AOIs 36-1, 36-2, and 36-5 is complete, with the bottom of the LIF impacted zone identified in the boring logs.

- There are several LNAPL plumes present at AOIs 36-1, 36-2, and 36-5, which are composed of different types of production product types. These include hydraulic oil, cutting oil, mineral oil, fuel oil, and gasoline.

AOI 81-2

- Areal LNAPL delineation is not complete at AOI 81-2. Active demolition in the area of AOI 81-2 prevented complete delineation.

- Vertical LNAPL delineation at each AOI 81-2 is complete, with the bottom of the LIF impacted zone identified in the boring logs.

- Factory 81 in currently being demolished and upon completion will provide an additional area to delineate AOI 81-2.

- Cutting oil is thought to be the predominant product type.

AOIs 83/84-2 and 83/84-4

- Areal LNAPL delineation is not complete at AOIs 83/84-2 and 83/84-4.

- Vertical LNAPL delineation at AOIs 83/84-2 and 83/84-4 appears complete in borings that reached the targeted total depth; however, additional borings are necessary to confirm.

- Cutting oil is thought to be the predominant product type.

AOI 86-1

- Areal LNAPL delineation is not complete at AOI 86-1.

- Vertical LNAPL delineation at AOI 86-1 appears complete in the one boring with LIF responses above background; however, additional borings are necessary to determine the vertical delineation in other areas of the plume.

- During the LIF drilling activities, Building 86 was still present in the north portion of AOI 86-1 and this area could not be accessed. This building has since been demolished; therefore delineation will be completed in this area during the next investigation event.

- Fuel oil is thought to be the predominant product type.

AOI 12-A, -B, and -C

- Areal LNAPL delineation of the AOI 12-A, -B and-C LNAPL plumes is now complete.

- Vertical LNAPL delineation at AOIs 12-A, -B, and -C is complete, with the bottom of the LIF impacted zone identified in the boring logs.

- Hydraulic oil is thought to be the predominant product type.

AOI 02-B, AOI 40-A, B, and AOI 16-C

- Areal LNAPL delineation on the north and east sides of AOI 02-B and AOI 40-A and –B is now complete.

- Additional delineation is necessary to the west and south of AOI 16-C.

- Vertical LNAPL delineation is complete, with the bottom of the LIF impacted zone identified in the boring logs.

- Hydraulic and fuel oil are thought to be the predominant product type in this co-mingled plume.

Due to active demolition of buildings at the site, several AOIs had restricted access, reducing the investigation area. Additional assessment in the Northend is recommended to further understand the LNAPL distribution, potential sources, and associated risks at the Site. A limited number of borings are recommended in the Southend to complete the assessment. Determining the extent of horizontal impact will help determine whether off Site migration is occurring.

2.2 Bench Scale Results

In 2011 ARCADIS conducted bench-scale treatability studies to evaluate the potential to recover LNAPL characterized as hydraulic oil and fuel oil from four AOIs at the Southend of the Site. The bench-scale study did not include AOI 09-B as pilot testing had already been completed at this AOI. The results of the testing were presented in the *LNAPL Remediation Technology Bench-Scale Testing Report* (ARCADIS, 2011a) submitted to the EPA on March 9, 2012. A brief summary of the testing and results is present below.

The purpose of the testing was to assess LNAPL remediation technology performance on the LNAPL types present at the site using the following remedial technologies:

- Physical (Hydraulic) LNAPL Recovery
- Surfactant-Enhanced LNAPL Recovery
- Thermally-Enhanced LNAPL Recovery via
    - hot water flooding
    - high temperature application (thermal conductive heating)
- In-Situ Chemical Oxidation (ISCO)
- Surfactant-Enhanced ISCO

The results of the bench scale treatability study are outlined below.

- The physical (hydraulic) recovery results showed that all in-situ LNAPL saturations were at residual saturation indicating physical recovery methods may not recover significant LNAPL from the subsurface.

- The surfactant-enhanced LNAPL recovery demonstrated that at the five soil cores representative of subsurface conditions surfactant flooding did not increase the recoverable fraction of LNAPL

- Results of the thermally-enhanced LNAPL recovery by hot water flood at the five soil cores representative of subsurface conditions showed that hot water flooding did not increase the recoverable fraction of LNAPL

- The thermally-enhanced LNAPL recovery by high temperature application via thermal conductive heating was effective at reducing concentrations of TPH in soil from 60% to greater than 99%. This technology is effective; however, implementation of this technology at the scale of Buick City is cost prohibitive.

- Results of the ISCO testing demonstrated that there was no significant reduction in TPH concentration observed for any of the treatments: persulfate, Fenton's, or surfactant-enhanced, on either LNAPL type, which is consistent with the understanding that ISCO is designed to remediate dissolved-phase petroleum impacts.

In summary, the bench scale treatability study found that LNAPL recovery in the Southend appears limited or cost prohibitive even with enhanced remediation methods regardless of the LNAPL type.

2.3 **AOI 09-B System Design and Installation**

2.3.1 System Design Activities

In 2011 the AOI 09-B Multiphase Extraction (MPE) system design was completed and system construction and installation activities began. The AOI 09-B MPE system will serve to remediate LNAPL, gasoline impacted groundwater, and soil vapor. The general concept of the system is that LNAPL, groundwater, and soil vapor will be pumped from the 28 system extraction wells via High Density Polyethylene (HDPE) pipe to a treatment system building. The mixture will be directed through knock out tanks which will route the vapors to a thermal oxidizer for thermal combustion and

liquids to an oil / water separator, which will remove floating and emulsified oil. Separated oil will be pumped to an onsite tank for storage and disposal, while the water will be pumped through an air stripper and then be treated with bag filters and activated carbon prior to discharge to the City of Flint sanitary sewer. Air removed from the air stripper will be combined with the soil vapors prior to thermal combustion. This process is detailed in the process flow diagram, which is presented in **Figure 3**, and the layout is presented in the proposed site plan shown on **Figure 4**.

The MPE treatment system construction subcontract has been awarded; construction of the treatment system has begun; and the system is anticipated to be available for delivery to the site April 2011.

2.3.2 Installation and Permitting Activities

The 28 4-inch MPE extractions wells have been installed. Following well installation, samples were collected from select wells and analyzed in support of the Sanitary Sewer Use Permit Application. The Sanitary Sewer Use permit is required for discharge to the City of Flint sanitary sewer. The permit application was submitted to the city on November 30, 2011 and is pending approval.

Additionally an air permit application was completed and submitted to the Michigan Department of Environmental Quality (MDEQ) for approval on October 20, 2011.

Installation of the system is anticipated to begin April of 2012 with startup and operation of the system is anticipated to begin in May of 2012.

2.4 **Natural Source Zone Depletion (NSZD) Study**

In 2011 the Natural Source Zone Depletion (NSZD) study began in the Southend of the Site. The objective of the NSZD study is to establish ongoing natural attenuation rates of LNAPL at the Site as a baseline for comparison to active LNAPL recovery technologies. In accordance with the *Southend: Natural Source Zone Depletion and LNAPL Transmissivity Measurement Work Plan* (ARCADIS, 2011b), seven nested soil gas wells were installed at the Site in areas where the depth to groundwater exceeded five feet. The nested soil gas well locations are presented on **Figure 5**. Permanent soil gas sampling points were installed according to the soil gas monitoring point installation protocol specified in *Standard Operating Procedure (SOP) Subsurface Soil Gas Sampling Using Single or Nested Ports*, (ARCADIS 2011c). Nested soil gas well and sampling point installation began in December 2011 and was completed in January 2012.

Also in January 2012, carbon dioxide traps were installed at locations where the depth to groundwater was less than five feet to collect data for NSZD rate assessment. The traps were installed according to instruction provided by Colorado State University. Nested soil gas points and carbon traps were installed at four common locations to allow comparative evaluation of NSZD rates obtained. Soil gas sampling and carbon dioxide sequestrant placement activities were coordinated to provide temporally consistent data sets.

The first quarter of sample collection was performed in February 2012. Carbon sequestrant material was placed in the traps in early February 2012 and recovered approximately two weeks after placement, and sent to Colorado State University for carbon dioxide extraction and mass analysis. The soil gas samples were collected from the nested probes and submitted for laboratory analysis.

At the time of publication of this report data obtained from the February 2012 sampling event was under review.

2.5 LNAPL Transmissivity Study

The objective of the LNAPL transmissivity study is to quantify relative LNAPL recoverability at the Site. LNAPL transmissivity will also be used to focus LNAPL recovery efforts in areas where LNAPL is more recoverable and/or be used as a test to establish the practicable limits of LNAPL recovery.

LNAPL transmissivity is measured by conducting baildown testing on Site monitoring wells exhibiting greater than 0.5 foot of in-well LNAPL accumulation. Baildown testing consists of LNAPL removal from test wells and monitoring of LNAPL recovery in the test well over time immediately following extraction. The rate of LNAPL flow into the well during the recovery period of a baildown test is a function of LNAPL saturation, permeability of the surrounding formation to LNAPL, LNAPL physical properties, and the magnitude of the initial hydraulic gradient toward the well developed during LNAPL removal.

The first quarterly baildown test was performed in December 2011 in accordance with the *Southend: Natural Source Zone Depletion and LNAPL Transmissivity Measurement Work Plan* (ARCADIS, 2011b). Fourteen monitoring/bench scale wells located in the Southend were found to contain greater than 0.5 feet of LNAPL during fluid-level gauging events conducted in 2010/2011. These 14 wells were gauged as part of the initial event and baildown testing was conducted in wells that 1) exhibited 0.5 feet or greater of LNAPL accumulation and 2) the LNAPL/air and

LNAPL/groundwater interfaces were within the screened interval of the well. In addition, the integrity of each well was assessed prior to beginning testing activities. The locations of the test wells are presented on **Figure 6**.

LNAPL baildown testing was conducted in accordance with the *Standard Operation Procedure LNAPL Baildown Testing* (ARCADIS 2011d). Baildown tests were repeated at each test well during the first test event, to ensure repeatability of results, and to resolve true aquifer response versus sand pack drainage. Baildown test data was analyzed using AQTESOLVTM software for Windows Pro 4.5 using modified solutions developed for traditional groundwater slug test analysis. Prior to importing data into the software, each dataset was carefully examined to determine the appropriate method for analysis.

At the time of publication of this report baildown test data was in the review process. Pending data analysis future quarterly baildown events may include all wells or a subset of the wells based on the initial testing results.

3. Groundwater Monitoring

3.1 Modifications to the Site Monitoring Plan

Modifications to the Site Monitoring Plan were submitted to the USEPA in the *RCRA Revised Corrective Measures Plan (CMP) Addendum No. 2-1* (ARCADIS, 2011e) (CMP Addendum 2-1). The 2011 Annual Groundwater Monitoring Event (2011 Monitoring Event) was completed in accordance with plan presented in CMP Addendum 2-1. The groundwater level and LNAPL presence monitoring locations included in the 2011 program are presented on **Tables 2 and 3** for the Northend and Southend of the Site, respectively. The groundwater quality monitoring locations included in the 2011 monitoring event are presented in **Table 4.**

The monitoring wells included in the sampling program were selected based on analytical data generated as part of the *RFI Phase I Report* (Blasland, Bouck, and Lee (BBL), 2002), the RCRA Facility Investigation (*RFI) Phase II Report* BBL, 2006), the *CA 750 groundwater monitoring program*, the *Revised (CMP) Addendum No.2 - Northend Corrective Measures and Sitewide Groundwater Monitoring* (ARCADIS, 2010), EPA Comments on CMP Addendum No. 2, and the 2010 Annual Groundwater Monitoring event.

3.2 Annual Groundwater Sampling Event

The 2011 Monitoring Event was conducted from October 18 to 28, 2011. The 2011 monitoring event included collecting groundwater level and LNAPL presence measurements and collecting samples as part of the groundwater quality monitoring program as discussed in Sections 3.2.1 and 3.2.2 below.

3.2.1 Groundwater Level and LNAPL Presence Measurements

As part of the 2011 Monitoring Event, ARCADIS completed a site-wide round of groundwater level and LNAPL presence and thickness measurements, which included attempting to collect measurements from 151 locations listed in **Table 2** (Northend) and 138 locations listed in **Table 3** (Southend). Additionally, depth to water measurements were collected from 12 wells (refer to **Table 5**) within the Factory 36 area that previously were not accessible due to demolition activities.

The monitoring well locations for the Northend and Southend are shown on **Figures 7** and **8**, respectively. Due to the ongoing decommissioning and demolition activities at the Site; limited access to off-Site property wells; expired access agreements for CSX

and DuPont properties, damaged or inaccessible wells; and wells that could not be located, 219 of the 289 wells originally planned monitoring wells were gauged for groundwater elevation and LNAPL thickness. Prior to the 2012 Monitoring Event alternate locations will be selected (where possible) to replace wells that were damaged, inaccessible, or could not be found.

3.2.1.1 Groundwater Level Evaluation

Groundwater level measurements were used to generate site-wide groundwater elevation contour maps (**Figures 7** and **8**) and are summarized in **Table 5.** The groundwater flow directions are consistent with historical observations. As shown on **Figures 7** and **8**, groundwater flow is locally influenced by the presence of storm sewers that traverse the Site. This is particularly apparent at the south end of Factory 81 (**Figure 7**), where Leith Street passes beneath the railroad tracks **(Figures 7 and 8**), and at AOI 40-A (**Figure 8).** Additionally, the Factory 86, Building 40 tunnel (AOI 40-D, **Figure 8**) appears to distort the groundwater contours, and the Factory 10 basement is acting as a sump (**Figure 7)** , with local groundwater flow into the basement. Factory 10 has since been demolished and the basement has been punctured and filled in. Therefore the basement should no longer be acting as a sump in the basement influencing groundwater flow

Note on **Figure 8** that the following monitoring wells located south of Industrial Avenue, 04-120, 04-140, BD01-01, and ACSP-B2AR were not included in development of the groundwater elevation contour maps. Based on the locations of the remaining wells at the Site, the aforementioned wells do not provide relevant data for development of the groundwater elevation contours; therefore, monitoring wells 04-120, 04-140, BD01-01, and ACSP-B2AR will be submitted to the USEPA to review for removal from the Monitoring Plan and will be properly abandoned in the future upon receipt of USEPA approval.

The 2011 groundwater level measurements were also compared to historic groundwater level data collected from July 2005 through October 2011. The evaluation did not reveal any obvious trends with the exception of two wells in the Factory 84 area (RFI-84-09S and RFI-84-09D) which showed a decrease in water levels of 6.04 feet and 4.54 feet, respectively. The groundwater levels in the vicinity of former Factory 36 have not been evaluated since the 2009, due to demolition activities in the area. Groundwater levels were collected from four wells in the former Factory 36 area during both the 2009 and 2011 events. An evaluation of the groundwater levels from these well identified a decrease in levels ranging from 0.39 to 1.29 feet.

3.2.1.2 LNAPL Presence Evaluation

The LNAPL presence and thickness measurements were compared to historical measurements generated as part of the *RFI Phase I Report and RFI Phase II Report* (BBL, 2006), the CA 750 groundwater monitoring program, the *Revised CMP Addendum No.2 – Northend Corrective Measures and Site-wide Groundwater Monitoring* (ARCADIS, 2010) (CMP Addendum No. 2 - Northend).

Figures 7 and 8 present the results of the 2011 LNAPL presence evaluation. The figures show the historical locations where LNAPL has been detected in monitoring wells in a light orange color. The locations where LNAPL was detected at a thickness of 0.01 feet or greater during the 2011 Monitoring Event are indicated in a dark orange color.

The observation of ephemeral LNAPL in monitoring wells is a common problem at sites with seasonally fluctuating water tables. An evaluation of measured LNAPL thicknesses indicates that there is generally an inverse relationship between groundwater elevation and apparent LNAPL thickness in wells (that is, lower groundwater elevations lead to increased LNAPL thicknesses and vice versa). As groundwater elevations fall LNAPL is observed in monitoring wells. When an increase in groundwater elevation occurs, LNAPL is suppressed by the elevated groundwater levels.

LNAPL presence and thickness measurements at the Site were generally consistent with historical data, except as noted below.

North of Leith Street

AOI 03-1 (**Figure 7**)

During the 2011 Monitoring Event monitoring well 03-03R could not be gauged due to a blockage in the well. LNAPL was not detected at monitoring well 03-03R in 2010. Historically, LNAPL had been detected at 03-03R from 2004 through 2008 at thicknesses ranging from 0.05 to 2.94 feet. Historically, the AOI 03-1 LNAPL plume has only been detected at 03-03R and the well that it replaced, 03-03. LNAPL was not detected in nearby monitoring wells 03-105R3 or RFI-03-02. Monitoring well 03-03R will continue to be monitored as part of the annual monitoring events and the blockage in the well assessed prior to the 2012 annual monitoring event.

AOI 10-1 (**Figure 7**)

During the 2011 Monitoring Event monitoring well 20-168 could not be accessed and gauged due to demolition activities. LNAPL was not detected at monitoring well 20-168 in 2010. Historically, LNAPL had been detected at 20-168 from 2003 through 2008 at thicknesses ranging from 0.01 to 2.26 feet. Historically, the AOI 10-1 LNAPL plume has only been detected at monitoring wells 20-167 and 20-168. Site demolition activities are expected to be completed prior to the 2012 Monitoring Event; therefore, 20-168 will be gauged during the next annual event.

AOI 83/84-2 (**Figure 7**)

During the 2011 Monitoring Event LNAPL was detected in monitoring wells RFI-83/84-27 and RFI-83/84-53 for the first time. The measured thickness of LNAPL was 2.08 feet at RFI-83/84-27 and 0.58 feet at RFI-83/84-53. RFI-83/84-27 and RFI-83/84-53 were last evaluated for the presence of LNAPL in September 2004. Historically, the AOI 83/84-2 LNAPL plume has only been detected at monitoring wells RFI-83/84-04, RFI-83/84-06, and RFI-83/84-49. These wells will continue to be monitored as part of the annual monitoring events along with downgradient well RFI-83/84-29.

AOI 36-1 (**Figure 7**)

During the 2011 Monitoring Event LNAPL was detected in monitoring well RFI-36-29R at a measured thickness of 8.08 feet. This is an increase of 4.96 feet from the last time the well was evaluated for the presence of LNAPL in 2008. Historically, LNAPL had been detected at RFI-36-29R from 2005 through 2008 at thicknesses ranging from 0.06 to 3.12 feet. The AOI 36-1 MS/HO LNAPL plume could not be accessed and gauged in 2010 due to demolition activities. The AOI 36-1 MS/HO LNAPL plume has been detected at several monitoring wells including RFI-36-06, and RFI-37-27. These wells will continue to be monitored as part of the annual monitoring events.

AOI 86-1 (**Figure 7**)

During the 2011 Monitoring Event LNAPL was detected in monitoring well RFI-86-08R for the first time. The measured thickness of LNAPL was 0.01 foot. RFI-86-08R was last evaluated for the presence of LNAPL in 2008. In addition, LNAPL re-appeared at RFI-86-02 (0.67 feet) and RFI-86-03 (0.03 feet). LNAPL was previously detected at RFI-86-02 and RFI-86-03 from 2004 through 2005.

Historic LNAPL thicknesses ranged from 0.01 to 2.39 feet at RFI-86-02 and 0.01 to 0.54 foot at RFI-86-03. Historically, the AOI 86-1 LNAPL plume has only been detected at monitoring wells RFI-86-02 and RFI-86-03. These wells will continue to be monitored as part of the annual monitoring events, along with downgradient wells RFI-86-01R, RFI-86-02, RFI-86-06S, and RFI-86-06D.

South of Leith Street

AOI 02-B (**Figure 8**)

During the 2011 Monitoring Event LNAPL was detected in RFI-02-14, RFI-02-15, RFI-02-16, RFI-02-19 and RFI-02-23. In 2010 LNAPL was also detected in RFI-02-12, RFI-02-17, and RFI-02-18 with a thickness of 0.01 foot; however, LNAPL was not detected in these monitoring wells in 2011. These wells will continue to be monitored as part of the annual monitoring program, along with downgradient wells RFI-02-22, RFI-02-24, RFI-40-13, RFI-40-14R, and RFI-40-15 to monitor plume stability.

AOI 09-B (Figure 8)

During the 2011 Monitoring Event LNAPL was detected in monitoring well 31-8 for the first time. The measured thickness of LNAPL at this well was 0.01 foot. This well was last evaluated for the presence of LNAPL in 2010. Historically, the AOI 09-B LNAPL plume has only been detected at monitoring wells 31-7, RFI-09-40R, and RFI-09-47. These wells will continue to be monitored as part of the annual monitoring program, along with downgradient wells RFI-09-11, RFI-09-45R, and RFI-09-52 to monitor plume stability.

AOI 12-A (**Figure 8**)

During the 2011 Monitoring Event LNAPL was not detected at RFI-12-01R, RFI-12-07R2, RFI-02-15, RFI-12-18, RFI-12-26 and RFI-12-27, although LNAPL had been measured at thicknesses of 0.01 to 0.02 feet in 2010. These wells will continue to be monitored as part of the annual monitoring events.

AOI 12-B and C (**Figure 8**)

Although measured in 2010 with a thickness of 0.01 foot, LNAPL was not detected in monitoring wells RFI-12-11S and RFI-12-14R during the 2011 Monitoring Event. LNAPL was measured at RFI-12-38 with a thickness of 0.05

feet. LNAPL was previously detected from 2004 through 2008 at thicknesses ranging from 0.3 to 0.74 feet. These wells will continue to be monitored as part of the annual monitoring events.

AOI 16-C and AOI 40-D (**Figure 8**)

During the 2011 Monitoring Event LNAPL was detected again in RFI-16-04R, RFI-16-24, and 40-304 with a thickness of 0.01 foot. However, approximately one week after the initial measurement of LNAPL, monitoring well 40-304 was evaluated again and LNAPL was not present in the well; therefore, a groundwater sample was collected from monitoring well 40-304 per CMP Addendum 2-1. Although measured in 2010 at a thickness of 0.01 foot, LNAPL was not detected in monitoring wells RFI-16-01, RFI-16-09, RFI-16-12, RFI-16-20, 40-303R, and 40-305 during the 2011 Monitoring Event. These monitoring wells will continue to be monitored as part of the annual monitoring events.

AOI-40-B (**Figure 8**)

During the 2011 Monitoring Event LNAPL was measured again in RFI-40-26 at a thickness of 0.01 foot. Although measured in 2010 at a thickness of 0.01 foot, LNAPL was not detected in monitoring wells RFI-40-10R and RFI-40-20 during the 2011 Monitoring Event. The thickness of LNAPL in monitoring well RFI-40-12R increased by approximately 2.85 feet, since this well was last evaluated for the presence of LNAPL in 2008. These monitoring wells will continue to be monitored as part of the annual monitoring events.

AOI-84-D (**Figure 8**)

During the 2011 Monitoring Event LNAPL was detected in monitoring well RFI-84-04D for the first time. The measured thickness of LNAPL was 0.01 foot. .This well was last evaluated for the presence of LNAPL in 2010. Historically, LNAPL has not been detected within AOI 84-D. The depth to groundwater at RFI-84-04D this well is 9.52 ft bgs; however, the well is screened from 42.5 to 47.5 ft bgs. .

Please note that at the time of the writing of this report RFI-84-04D was inspected and gauged to confirm the findings during the annual event. On March 13, 2012 RFI -84-04D appeared to be in good condition and LNAPL was not detected in the well. This monitoring well will continue to be monitored as part of the annual monitoring events.

These monitoring wells will remain in the annual monitoring program. Additional wells may be installed for monitoring LNAPL at the existing LNAPL plumes, depending on the results of the LIF investigations (see Section 2) and the subsequent remedial actions taken in those areas. These wells will be installed, as necessary, following USEPA approval of the remedial design of each of the LNAPL plumes.

3.2.2 Monitoring Network Inspection and Maintenance

Based on monitoring well inspection observations compiled during the 2010 Annual Groundwater Monitoring event, several repairs and/or maintenance were performed in 2011 on wells within the monitoring well network. These activities included: abandonment of monitoring wells RFI-36-55 (well observed to be destroyed in 2010) and RFI-02-05 (blockage in well required replacement monitoring well); installation of two replacement monitoring wells RFI-36-55R and RFI-02-05R; installation of one new well (RFI-12-42) near the southwest corner of the former Building 12 footprint; and redevelopment of RFI-36-56 (well was observed to be silted in/dry in 2010). In addition, several well covers were replaced.

During the 2011 Monitoring Event an inspection was performed on each monitoring well. The inspection included an assessment of the physical condition of the monitoring well protective casing, j-plug and lock, and confirmation of the total depth of the monitoring well. Monitoring well inspection observations were compiled on field logs sheets, and noted repairs will be addressed as needed/warranted. A number of wells could not be located; therefore, a Global Positioning System (GPS) unit was used to locate missing wells. The GPS unit assisted with locating several wells; however, some wells were not able to be located. These wells include the following: 11-6-2, 04-120, 04-140, 36FP8, 36-121, 43-141, RFI-07-03, RFI-12-21, RFI-12-36, RFI-16-07, RFI-36-27, RFI-40-01R2, RFI-40-25, and RFI-83/84-03.

Also, as documented below groundwater level measurements (and LNAPL measurements, if applicable) could not be collected from the following wells:

- Damaged or Blocked Wells: 03-03R, 20-145, RFI-10-28, RFI-36-20, RFI-36-25R, RFI-55-12, RFI-86-14;
- Not Accessible (in Demolition Area):20-160, 20-162, 20-168, RFI-81-02, RFI-81-35, and RFI-85-02;
- Not Accessible (Buried under gravel or debris): 36FP3, 36FP6, 43-242, RFI-02-07, RFI-03-02, RFI-05-13, RFI-05-14, RFI-10-15, RFI-10-36, and RFI-38-05;

- Not Accessible (CSX Property- Access Agreement Not Finalized): 70-163, 70-164, RFI-36-37, RFI-36-47, RFI-40-11, RFI-40-13, and RFI-40-15;
- Not Accessible (DuPont Property – Access Agreement Not Finalized): MW-16, MW-17, MW-18, MW-19, MW-23, MW-25, MW-26, RFI-09-14, and RFI-09-58;
- Not Accessible (UPF Property – Access Denied): RFI-02-13 and RFI-02-24; and
- Not Accessible (Locked, key not available): GM-1, GM-2.

The Site monitoring wells will be evaluated to determine which wells will be needed for future monitoring or which wells should be abandoned. Prior to the 2012 Monitoring Event alternate locations will be selected (where possible) to replace wells that were damaged, inaccessible, or could not be found. Monitoring wells selected for further monitoring will be repaired as needed. Monitoring wells not selected for further monitoring will be submitted to USEPA for review and the wells will be properly abandoned upon receipt of USEPA approval.

3.2.3 Groundwater Quality Monitoring Program

A total of 50 monitoring wells were sampled during the 2011 Monitoring Event for the purpose of water quality analysis. **Table 4** presents the monitoring well locations included in the groundwater quality monitoring program; the specific analyses to be completed for each sampled location; and the rationale for the inclusion of each monitoring well in the sampling program.

3.2.3.1 Sample Collection and Laboratory Analysis

Groundwater samples were collected, analyzed and validated using methods and procedures consistent with those employed previously at the site, as described in the Site's Field Sampling Plan (FSP) and Quality Assurance Project Plan (QAPP) (Appendix C of the RFI Work Plan [BBL, 2001]).

The following monitoring wells were redeveloped prior to collecting groundwater analytical samples because the monitoring wells have not been sampled in over 2 years or were newly installed wells: 36-FP1, RFI-36-03, RFI-36-04, RFI-36-14, RFI-36-55R, RFI-02-05R, and RFI-12-42.

Monitoring wells were sampled using low-flow purge and sampling methods to reduce turbidity in the samples in accordance with the FSP (BBL, 2001). The static

groundwater level in each well was measured to the nearest 0.01 foot using an oil/water interface probe prior to sampling. Each well was purged until measured field parameters (i.e., temperature, specific electrical conductivity, dissolved oxygen, oxidation/reduction potential, pH and turbidity) stabilized. These field-measured data are summarized in **Table 6**. Groundwater samples were then collected; submitted to Merit Analytical Laboratories of East Lansing, Michigan, as specified in the FSP (BBL 2001); and analyzed using the procedures specified in the QAPP (BBL 2001).

To support the groundwater analyses, one sample delivery group (SDG) was reported by the laboratory at Level 3 and the remainder at Level 2. One SDG was verified/validated as described in the FSP/QAPP based on the USEPA's (1995) approach for data review on one SDG at a Tier II and the remainder of the data was verified/validated at Tier I.

3.2.3.2 Summary of Field Activities

Of the 50 monitoring wells included in the groundwater monitoring program, nine monitoring wells were not sampled. Two wells had been damaged or covered by debris (RFI-10-28 [and its alternate well RFI-10-15] and RFI-10-36), one well had a blockage (RFI-36-20), and six monitoring wells (RFI-36-37, RFI-36-47, and 70-164, MW-23, MW-26, and RFI-09-14) were not accessible due to non-finalized access agreements. The remaining 41 monitoring wells were sampled from October 20 to 27, 2011. The well cap and j-plug were missing from monitoring well RFI-94-11 upon inspection; therefore RFI-94-10 was selected as an alternate well. Additionally, due to the presence of LNAPL in monitoring well 36-FP2, monitoring well 36-FP1 was selected as an alternate well and sampled

3.2.3.3 Summary of Results and Response Plan

The laboratory analytical data for the 2011 Monitoring Event, as well as historical data for these locations, are summarized in **Table 7**. The data was compared to the following MDEQ Part 201 criteria:

- Residential Drinking Water (RDW);
- Non-Residential Drinking (NDW);
- Groundwater/Surface Water Interface (GSI) – only compared to samples collected within 500 feet of the Flint River;

- Groundwater Contact Criteria (GCC);
- Groundwater Acute Inhalation Screening Level (GAI);
- Residential Groundwater Volatilization to Indoor Air Inhalation (RGVIA);
- Non-Residential Groundwater Volatilization to Indoor Air Inhalation (NGVIA); and
- Flammability and Explosivity Screening Level (FE).

Figures 9 and **10** present current and historical data for select parameters at each of the locations sampled during the 2011 Monitoring Event. Results of the 2011 Monitoring Event are generally consistent with the results of prior monitoring events, except as noted below.

20-FP10R, AOI 10-4 (**Figure 9**)

During the 2011 Monitoring Event, benzene was detected at a concentration of 0.018 milligrams per liter (mg/L) in the sample collected from 20-FP10R. This represents an increase in the benzene concentration from 2010 (0.006 mg/L). Concentrations in 2010 and 2011 exceeded the MDEQ Part 201 Non-residential Drinking Water Criteria (NDW) of 0.005 mg/L.

A review of the data collected from 20-FP10/20-FP10R from 2002 through 2012 show values fluctuating from non detect to 0.018 mg/L, with an increasing trend over the last four years. A new monitoring well will be installed to assess conditions downgradient of 20-FP10/20FP10R.

RFI-10-26, AOI 10-4 (**Figure 9**)

During the 2011 Monitoring Event the RFI-10-26 groundwater sample was submitted for analysis of VOCs and the additional analysis of arsenic, lead, and manganese (as requested by the USEPA). The analytical results indicated that VOCs and arsenic were not detected and that manganese was detected below criteria. However, lead was detected at a concentration of 0.008 mg/L, which is above the MDEQ Part 201 NDW criterion of 0.004 mg/L.

Lead and VOCs will continue to be monitored at RFI-10-26 in 2012. Based on the 2012 analytical results, recommendations for additional monitoring will be included in the 2012 annual monitoring report, if necessary.

RFI-36-04, AOI 36-1 (**Figure 9**)

During the 2011 Monitoring Event the RFI-36-04 groundwater sample was submitted for analysis of VOCs and the additional analysis of arsenic (as requested by the USEPA). The analytical results indicated that select VOCs were detected at concentrations below criteria and that arsenic was detected at a concentration of 0.257 mg/L, which is above the MDEQ Part 201 NDW criterion of 0.01 mg/L. Arsenic was previously detected above the MDEQ Part 201 NDW and GSI criteria in 2002 (0.08 mg/L) and 2003 (0.087 mg/L).

To assess downgradient conditions, VOCs and arsenic will be monitored in monitoring well RFI-36-02 in 2012. Based on the 2012 analytical results, recommendations for additional monitoring will be included in the 2012 annual monitoring report, if necessary.

36-FP1 and RFI-36-03, AOI 36-1 (Figure 9)

During the 2011 Monitoring Event the 36-FP1 and RFI-36-03 groundwater samples were submitted for analysis of inorganics (as requested by the USEPA) to assess inorganic concentrations at the property boundary. As noted above 36-FP1 was sampled as a replacement well for 36-FP2 due to the presence of LNAPL at 36-FP2. The analytical results at 36-FP1 indicated arsenic and lead were detected at concentrations that exceed the MDEQ Part 201 NDW criteria. The analytical results at RFI-36-03 indicate that lead was detected at a concentration of 0.008 mg/L, which exceeds the MDEQ Part 201 NDW criterion of 0.004 mg/L.

Lead will continue to be monitored in monitoring well RFI-36-03 and at downgradient location RFI-36-44 in 2012 and, based on the 2012 analytical results, recommendations for additional monitoring will be included in the 2012 annual monitoring report, if needed.

RFI-81-51, AOI 81-3 (**Figure 9**)

During the 2011 Monitoring Event monitoring well RFI-81-51 replaced monitoring well RFI-81-08 per CMP Addendum 2-1. The analytical results detected tetrachloroethene at a concentration of 0.007 mg/L, which is above the MDEQ Part 201 NDW criterion of 0.005 mg/L. In addition, trichloroethene was detected at a concentration of 0.067 mg/L, which is above the MDEQ Part 201 NDW criterion of 0.005 mg/L.

Tetrachloroethene and trichloroethene will continue to be monitored in monitoring well RFI-81-51 in 2012. Based on the 2012 analytical results, recommendations for additional monitoring will be included in the 2012 annual monitoring report, if necessary.

RFI-09-53, AOI 09-A (**Figure 10**)

During the 2011 Monitoring Event the sample collected from RFI-09-53 detected trichloroethene and vinyl chloride at concentrations that exceeded criteria. Trichloroethene was detected at a concentration of 0.075 mg/L which exceeds the MDEQ Part 201 NDW criteria of 0.005 mg/L. Vinyl chloride was detected at a concentration of 0.032 mg/L, which exceeds MDEQ Part 201 NDW criteria of 0.002 mg/L

Off-Site monitoring well MW-26 was not sampled during 2011 due to accessibility issues. This well will be sampled for VOCs in 2012. Based on the 2012 analytical results, recommendations for additional monitoring will be included in the 2012 annual monitoring report, if necessary.

RFI-12-42, AOI 12-A (**Figure 10**)

Monitoring well RFI-12-42 was installed at the request of the USEPA to be used as a downgradient monitoring point for the AOI 12-A, -B, and -C area. During the 2011 Monitoring Event the RFI-12-42 groundwater sample was submitted for analysis of VOCs. The analytical results indicated that VOCs were either not detected or detected at concentrations below criteria. RFI-12-42 will continue to be monitored in 2012. Based on the 2012 analytical results, recommendations for additional monitoring will be included in the 2012 annual monitoring report.

RFI-17-02D, AOI 84-D (**Figure 10**)

During the 2011 Monitoring Event benzene was not detected at RFI-17-02D. The 2008 and 2009 samples collected from this location had exceeded the NDW criterion for benzene of 0.005 mg/L. Additionally, vinyl chloride was not detected. The 2008 and 2009 samples collected from this location had vinyl chloride concentrations between 0.001 and 0.002 mg/L. RFI-17-02D will continue to be monitored in 2012 to confirm that concentrations continue to remain below criteria. Based on the 2012 analytical results, recommendations for additional monitoring will be included in the 2012 annual monitoring report.

3.3 **NPDES Plus Monitoring Program**

The National Pollutant Discharge Elimination System (NPDES) Plus Monitoring Program (NPMP) has continued to be implemented at the Site to monitor compliance with Michigan Part 201 GSI criteria for the long-term protection of the Flint River. The USEPA and MDEQ have previously agreed to the approach of sampling of the Site storm sewers as a means to address potential GSI impacts. As discussed in further detail below, the NPMP consists of collecting monthly samples from up to 11 Site storm sewers during dry weather flow to evaluate the impact of the groundwater infiltrating into the Site storm sewers.

3.3.1 NPMP Sampling

Storm sewers associated with the following NPDES outfalls are included in the NPMP: Outfalls 001, 002, 003, 005, 006, 007, 009, 010, 011, and 013 (see **Figure 11**). The NPMP primary Monitoring Points (MP) are co-located with the monitoring points which have been identified in the current and previous Site NPDES permits.

Please note that Outfalls 004, 008, and 012 are not currently included in the NPMP. The dry weather flow from Outfall 004 has been diverted through Outfall 003/004 Storm Sewer Diversion and Treatment System (Outfall 003/004 System) and now discharges through Outfall 003. Since the Outfall 003/004 System went on Line in January 2011, the sample collected from MP003 has been a combined Outfall 003 and Outfall 004 sample. The Outfall 008 storm sewer has been permanently bulkheaded immediately downstream of MP008. The bulkhead was installed because of a no flow condition due to the collapsed storm sewer line. Outfall 008 no longer receives drainage from the Site; therefore, it is not included in the NPMP. During a previous dry weather sampling activity an attempt was made to collect a sample from MP012, located on the Outfall 012 storm sewer. However, there was only a small puddle (no flow) of water in the storm sewer at the time of sampling indicating that significant groundwater infiltration to Outfall 012 is unlikely; therefore, Outfall 012 was not included in the NPMP (ARCADIS, 2010).

3.3.1.1 Dissolved Phase Sampling

In addition to the routine monthly sampling, additional samples were collected during the February 2011 sampling event and submitted for laboratory analysis of dissolved metals and total suspended solids (TSS) in order to evaluate whether the detected metals concentrations were associated with solid phase of the samples. These results

were previously discussed in the 2010 CMI Report, and are discussed here as well to provide a better overall picture of conditions at each outfall.

3.3.1.2 Upgradient Sampling

In addition to the routine monthly sampling events an upgradient sampling event was completed in August 2011 to assess contributions from offsite upgradient sources. The five upgradient Site storm sewer locations sampled in August 2011 included: MH 1-7, MH 3-31, MH 3-51, MH 4-21, and MH 13-14. Two additional sampling locations (MH 3-28 and MH 3-25-3) were also identified to be sampled, but were observed to be dry, or were inaccessible at the time of sampling. The upgradient sampling event was coordinated with the monthly NPMP sampling. Two sampling teams coordinated efforts in order to sample the upgradient location and NPMP location at approximately the same time to help make sure the samples were representative.

3.3.1.3 Summary of Field Activities

The routine NPMP sampling activities were continued at the Site on a monthly basis. All NPMP samples were collected as grab samples during dry weather flow using a peristaltic pump fitted with tubing. However, the PCB samples were collected using an automated sampler to collect 24-hour composite samples as indicated on **Table 8**. The samples were collected and analyzed using the procedures described in the Site FSP and QAPP (Appendix C of the RFI Work Plan). The routine storm sewer samples were submitted for laboratory analysis of Select VOCs, SVOCs, PCBs, cyanide, Total Suspended Solids (TSS), and/or select metals as summarized in **Table 8**. The upgradient storm sewer samples collected in August 2011 were submitted for laboratory analysis of cyanide and select metals.

To support the NPMP, the laboratory was required to report Level 2 data packages. As discussed in the CMI Work Plan, Level 2 data consists of modified reporting including some supporting documentation, but not full “Contract Laboratory Program”-type (CLP-type). These data were not subjected to verification/validation.

3.3.2 Summary of Results

The results of the 2011 NPMP sampling events are summarized below and presented in **Table 9**. In addition, data summary graphs were prepared using the VOC and metals NPMP data collected to date in order to evaluate trends and to aid in making recommendations for future monthly sampling. Graphs were not prepared for PCBs or SVOC analytical data. The NPMP samples have not detected PCBs and only one

sample detected SVOCs. The detected SVOCs do not have MDEQ Part 201 GSI criteria for comparison. The data summary graphs are presented in **Appendix B** along with a table of all the NPMP data collected to date at the Site**.**

A review of the NPMP analytical data collected since March 2011 indicates that VOCs, SVOCs and PCBs have not been detected above GSI criteria; however, select metals have been detected at concentrations exceeding GSI criteria at Outfalls 001, 002, 003, 005, 006, 007, 009, 010, and 013.

3.3.2.1 Outfall 001

Outfall 001 is sampled from MP001, which is located at manhole MH 1-3. Due to the demolition activities occurring at nearby Factory 38, Outfall 001 was not able to be sampled during January 2011 and due to the manhole being covered with significant water, Outfall 001 was not able to be sampled during the April 2011 sampling event. Therefore, samples were collected during ten of the 12 sampling events with the following samples exceeding the GSI criteria:

- February
  - Total and Dissolved Chromium; Total Copper; Total Cyanide; Total Mercury
- March, May, June, August, November, December
  - Total Mercury
- July
  - Total Chromium; Total Copper; Total Lead; Total Mercury; Total Selenium
- October
  - Total Lead; Total Mercury

TSS was also detected during the sampling events at concentrations ranging from 1,000 µg/L to 123,000 µg/L.

Outfall 001 Data Evaluation

Impacts at Outfall 001 are primarily associated with mercury; however, other select metals have been detected above GSI criteria. The analytical data are presented on Table 9.

The February 2011 analytical data detected TSS at a concentration of 64,000 µg/L. A comparison of the total and dissolved metals data indicates that the exceedances of GSI criteria for copper and mercury may be associated with solids in the sample. There was an exceedance of GSI criteria in the totals data for cyanide; however, cyanide was not included in the analyte list for the dissolved sample. The dissolved phase data are presented on **Table 9**.

The upgradient sampling data collected in August 2011 are presented in **Table 10** with the corresponding downgradient sample results. The Outfall 001 upgradient sample was collected at manhole MH 1-7, which is located at the upgradient property boundary and is representative of the contribution from upgradient offsite sources. The analytical data show that the concentrations of all metals detected in the upgradient sample are higher than those detected at the downgradient sample. In the upgradient sample at MH1-7 mercury was detected at a concentration of 3.6 nanograms per liter (ng/L) which exceeds MDEQ Part 201 GSI criteria. The corresponding downgradient sample collected at MP001 detected mercury at a concentration of 1.4 ng/L, Both samples exceed MDEQ Part 201 criteria for mercury of 1.3 ng/L; however, the on-Site sample concentration is much lower than the upgradient sample collected from the offsite contribution. Additionally, groundwater samples collected during the RFI investigation from on Site monitoring wells located in the drainage area for Outfall 001 did not detect mercury in groundwater.

3.3.2.2 Outfall 002

Outfall 002 is sampled from MP002, which is located at manhole MH 2-19. Samples were collected at MP002 during all 12 of the sampling events with the following samples exceeding the GSI criteria:

- January
  - Total Arsenic
- February
  - Total and Dissolved Selenium
- March, April, May, June, September
  - Total Mercury
- July
  - Total Mercury; Total Silver

- August, December
  - Total Cyanide; Total Mercury
- October
  - Total Arsenic; Total Chromium; Total Mercury
- November
  - Total Arsenic; Total Copper; Total Cyanide; Total Mercury
- December
  - Total Cyanide

TSS was also detected during the sampling events at concentrations ranging from 7,000 µg/L to 914,000 µg/L.

Outfall 002 Data Evaluation

Impacts at Outfall 002 are primarily associated with arsenic, mercury and cyanide; however, other select metals have been detected above GSI criteria. The analytical data are presented on Table 9.

The February 2011 analytical data detected TSS at a concentration of 7,000 µg/L. A comparison of the total and dissolved metals data indicates that the exceedance of GSI criteria for selenium does not appear to be associated with solids in the sample. The results of the dissolved phase sample are comparable to the concentrations detected in the total sample, indicating that the metals were primarily in the dissolved phase. The dissolved phase data are also presented on **Table 9**.

The Outfall 002 storm sewer system begins onsite; therefore, there is no upgradient contribution to the storm sewer.

3.3.2.3 Outfalls 003 and 004

Outfall 003 is sampled from MP003, which is located at manhole MH 3-3. As previously mentioned following the installation of the Outfall 003/004 System in January 2011 the discharge at MP003 is a combined flow from the Outfall 003 and 004 systems. This section presents that January data from samples collected from Outfall 003 and Outfall 004 and the samples of the combined flow beginning in February. Samples were

collected during all 12 of the sampling events with the following samples exceeding the GSI criteria:

- Outfall 003 January Results
  - No Exceedances
- Outfall 004 January Results
  - Total Chromium; Total Copper; Total Lead; Total Mercury; Total Zinc
- February, November, December
  - Total Cyanide; Total Mercury
- March, April, May, June, August, October
  - Total Mercury
- July
  - Total Silver
- September
  - Total Lead; Total Mercury

TSS was also detected during the sampling events at concentrations ranging from 3,000 µg/L to 39,000 µg/L.

Outfall 003 Data Evaluation

Impacts at Outfall 003 are primarily associated with cyanide, lead, and mercury; however, other select metals have been detected above GSI criteria. Beginning in February the sample collected from MP003 is from the combined flow of Outfall 003 and 004.

The February 2011 analytical data detected TSS at a concentration of 15,000 µg/L. A comparison of the total and dissolved metals data indicates that the exceedance of GSI criteria for mercury may be associated with solids in the sample. There was an exceedance of GSI criteria in the totals data for cyanide; however, cyanide was not included in the analyte list for the dissolved sample. The dissolved phase data are presented on **Table 9**.

The upgradient sampling data collected in August 2011 are presented in Table 10 with the corresponding downgradient sample results. Three upgradient samples were

collected at MH 3-31, MH3-51, and MH4-21 which are located at the upgradient property boundary and are representative of the contribution from upgradient offsite sources. The MH 3-31 sample exceeded the GSI criteria for total chromium, total copper, total cyanide, total lead, and total mercury. The MH 3-51 sample exceeded the GSI total mercury criteria. The MH 4-21 sample exceeded the GSI criteria for total arsenic, total copper, total lead, and total mercury.

The corresponding data collected in August from MP003 detected mercury above GSI criteria at a concentration of 3.3 ng/L. The upgradient samples collected from MH 3-31, MH 3-51 and MH 4-21 detected mercury at concentrations of 11 ng/L, 1.5 ng/L, and 42 ng/L, respectively. The data indicate that upgradient offsite sources are likely contributing to the mercury impacts that are being detected at MP003.

3.3.2.4 Outfall 005

Outfall 005 is sampled from MP005, which is located at manhole MH 5-6. Samples were collected at MP005 during all 12 of the sampling events with the following samples exceeding the GSI criteria:

- January, October
  - Arsenic
- March, May, June, August
  - Total Mercury
- April
  - Total Mercury, Total Silver
- July, November
  - Total Arsenic; Total Mercury
- September
  - Total Arsenic; Total Copper; Total Lead; Total Zinc
- December
  - Total Arsenic; Total Lead; Total Mercury

TSS was also detected during the sampling events at concentrations ranging from 1,000 µg/L to 59,000 µg/L.

Outfall 005 Data Evaluation

Impacts at Outfall 005 are primarily associated with mercury; however, other select metals have been detected above GSI criteria. The analytical data are presented on Table 9.

The February 2011 analytical results detected TSS at a concentration of 6,000 µg/L. The analytical results did not detect any analytes above GSI criteria in either the totals or dissolved samples; however, the results of the dissolved phase samples are comparable to the concentrations detected in the total sample, indicating that the metals were primarily in the dissolved phase. The dissolved phase data are also presented on **Table 9**.

3.3.2.5 Outfall 006

Outfall 006 is sampled from MP006, which is located at manhole MH 6-2. Samples were collected at MP006 during all 12 of the sampling events with the following samples exceeding the GSI criteria:

- February, March, April, May, June, July, August, December
  - Total Mercury

TSS was also detected during the sampling events at concentrations ranging from 1,000 µg/L to 71,000 µg/L.

Outfall 006 Data Evaluation

Impacts at Outfall 006 are associated with mercury. The analytical data are presented on Table 9.

The February 2011 analytical results detected TSS at a concentration of 1,000 µg/L. The analytical data for total and dissolved metals indicates that the exceedance of GSI criteria for mercury may be partially attributed to solids in the sample. The dissolved phase data are also presented on **Table 9**.

3.3.2.6 Outfall 007

Due to access issues, the primary sampling location (MH 7-1) was changed after the September 2010 sampling event to where Outfall 007 discharges into the Flint River. However, this secondary location could not be sampled during three sampling events

(January, March, and September 2011) due to the river level being up to the outfall discharge point and safety concerns resulting from ice and snow, making an accurate grab sample not possible. Therefore, samples were collected during nine of the 12 sampling events with the following samples exceeding the GSI criteria:

- February 2011
  - Total and Dissolved Mercury

- April, May, July, August, October, November, December
  - Total Mercury

TSS was also detected during the sampling events at concentrations ranging from 6,000 µg/L to 330,000 µg/L.

Outfall 007 Data Evaluation

Impacts at Outfall 007 are associated with mercury. The analytical data are presented on Table 9.

The February 2011 analytical results did not detect TSS at a reporting limit of 1,000 µg/L. The analytical data detected mercury above GSI criteria in both the total mercury sample (3.1 ng/L) and the dissolved mercury sample (1.4 ng/L) indicating that the exceedance of GSI criteria for mercury may be partially associated with solids in the sample. The dissolved phase data are also presented on **Table 9**.

3.3.2.7 Outfall 009

Outfall 009 is sampled from MP009, which is located at manhole MH 11-7. Due to the manhole area being covered with significant water, Outfall 009 was not able to be sampled during the April and May 2011 sampling events. Therefore, samples were collected during eight of the ten sampling events with the following samples exceeding the GSI criteria:

- January and December
  - Total Arsenic; Total Cadmium; Total Chromium; Total Copper; Total Lead; Total Mercury; Total Vanadium; Total Zinc

- March, June, August, September, October
  - Total Mercury

- July
  - Total Arsenic; Total Chromium; Total Manganese; Total Mercury

- November
  - Total Cyanide; Total Mercury

TSS was also detected during the sampling events at concentrations ranging from 7,000 µg/L to 115,000 µg/L.

Outfall 009 Data Evaluation

Impacts at Outfall 009 are primarily associated with mercury; however, other select metals have been detected above GSI criteria. The analytical data are presented on Table 9.

The February 2011 analytical results detected TSS at a concentration of 23,000 µg/L. The analytical results did not detect any analytes above GSI criteria in either the totals or dissolved samples; however, the results of the dissolved phase samples are comparable to the concentrations detected in the total sample, indicating that the metals were primarily in the dissolved phase. The dissolved phase data are presented on **Table 9**.

3.3.2.8 Outfall 010

Outfall 010 is sampled from MP010, which is located at manhole MH 10-5. Samples were collected at MP010 during all 12 of the sampling events with the following samples exceeding the GSI criteria:

- January, October
  - Total Cyanide

- March, May, June,, December
  - Total Mercury

- April
  - Total Cyanide; Total Mercury

- July
  - Total Chromium; Total Copper; Total Lead; Total Mercury; Total Zinc

- August
  - Total Cyanide; Total Mercury

- September
  - Total Lead; Total Mercury

- November
  - Total Arsenic; Total Cadmium; Total Chromium; Total Copper; Total Cyanide; Total Lead; Total Manganese; Total Mercury; Total Zinc

TSS was also detected during the sampling events at concentrations ranging from 1,000 µg/L to 416,000 µg/L.

Outfall 010 Data Evaluation

Impacts at Outfall 010 are primarily associated with cyanide, lead and mercury; however, other select metals have been detected above GSI criteria. The analytical data are presented on Table 9.

The February 2011 analytical results detected TSS at a concentration of 1,000 µg/L. No analytes were detected above GSI criteria in the dissolved samples in the February 2011 samples. There was an exceedance of GSI criteria in the totals data for cyanide; however, cyanide was not included in the analyte list for the dissolved sample. The results of the dissolved phase samples are comparable to the concentrations detected in the total sample, indicating that the metals were primarily in the dissolved phase. The dissolved phase data are also presented on **Table 9**.

3.3.2.9 Outfall 011

Due to access issues, the primary sampling location (MP011) was changed to where Outfall 011 discharges into the Flint River. However, this secondary location could not be sampled during seven of the sampling events (March, April, May, June, August, November, and December 2011) due to the river level being up to the outfall discharge point making an accurate grab sample not possible. Therefore, samples were collected during five of the 12 sampling events, and no sample concentrations exceeded the GSI criteria.

3.3.2.10 Outfall 013

Outfall 013 is sampled from MP013, which is located at manhole MH 13-6. Due to access issues or observed increased flow at the location, MP013 could not be sampled during the February, March, October, and November 2011 sampling events. The observed increased flow refers to flow which was obviously greater than previous events. The increased flow was observed for two consecutive events to confirm that the increase was not due to a wet weather conditions before the flow was considered a revised dry weather flow condition. Sampling at this location then resumed. Samples were collected during eight of the 12 sampling events with the following samples exceeding the GSI criteria:

- April
  - Total Cyanide
- May
  - Total Chromium; Total Copper; Total Lead; Total Mercury
- June
  - Total Copper; Total Lead; Total Mercury
- July
  - Total Chromium; Total Copper; Total Mercury
- August
  - Total Mercury
- September
  - Total Arsenic; Total Copper; Total Mercury

TSS was also detected during the sampling events at concentrations ranging from 1,000 µg/L to 61,000 µg/L.

Outfall 013 Data Evaluation

Impacts at Outfall 013 are primarily associated with copper, lead and mercury; however, other select metals have been detected above GSI criteria. The analytical data are presented on Table 9.

The dissolved sample was collected at Outfall 013 in April 2011, as the outfall was not accessible in February or March. The analytical results detected TSS at a concentration of 2,000 µg/L. Analytical results detected dissolved metals at concentrations below the GSI criteria. There was an exceedance of GSI criteria in the totals data for cyanide; however, cyanide was not included in the analyte list for the dissolved sample. The results of the dissolved phase sample are comparable to the concentrations detected in the total sample, indicating that the metals were primarily in the dissolved phase. The dissolved phase data are also presented on **Table 9**.

The upgradient sampling data collected in August 2011 are presented **in Table 10** with the corresponding downgradient sample results. The Outfall 013 upgradient sample was collected at manhole MH 13-14, which is located at the upgradient property boundary and would be representative of the contribution from upgradient offsite sources. The analytical data show that mercury was detected in the upgradient sample at a concentration of 1.4 ng/L which exceeds MDEQ Part 201 GSI Criteria. The corresponding downgradient sample collected at MP013 detected mercury at a concentration of 1.6 ng/L. Both samples exceed MDEQ Part 201 criterion for mercury of 1.3 ng/L; however, the on-Site sample concentration is only slightly higher that the upgradient sample. This data indicates that the impact is entering the site from an unknown upgradient off-site source.

3.3.3 Response Plan

Nine of the ten outfalls sampled during the NPMP detected select metals at concentrations exceeding GSI criteria. The following recommendations are made to respond to these metals exceedances.

1) Evaluate bulk-heading of impacted outfalls to eliminate potential metals impacts to the Flint River.

2) If bulkheading of a particular section of sewer is not possible for some reason (for example, due to the fact that it is a public sewer), a review of groundwater and surface soil data in the drainage areas for Outfalls 002, 007, 009, and 010 and prepare a plan to move the sampling locations upstream each month to try to determine the source area of the GSI impacts.

3.3.4 Requested Changes to the Monitoring Plan

The requested changes to the NPMP Monitoring Plan are based on a review of the 2011 monthly outfall monitoring data (**Table 9**) and a review of graphs (**Appendix B**) of

the 2010 and 2011 data to evaluate trends in analyte detections/exceedances. The current sampling frequency and analyte list for each Outfall is presented on **Table 8**.

The following rationale was used to determine the proposed 2012 Sampling Plan including determining the sampling frequency and analyte list for each Outfall.

1) If an analyte has not been detected in the past 12 months or has only been detected at concentrations that are less than 25% of the GSI criteria then no additional sampling of that analyte is recommended.

2) If in the past 12 months an analyte was detected in one or more samples at a concentration greater than 25% of GSI criteria then annual sampling is recommended for that analyte.

3) If in the past 12 months one or more samples detected an analyte at a concentration greater than 25% of GSI criteria and the data collected to date show an increasing trend then semi-annual sampling is recommended for that analyte.

4) If in the past 12 months one or more samples detected an analyte at a concentration greater than 75% of GSI criteria then quarterly sampling is recommended for that analyte.

5) If in the past 12 months one or more samples detected an analyte at a concentration exceeding the GSI criteria then continued monthly sampling is recommended.

Using these criteria along the with outfall specific conditions, following 2012 Sampling Plan is proposed:

Outfall 001

Based on NPMP data collected to date, including the upgradient sampling analysis and a review of data trends it is recommended that:.

- **Option A** – Eliminate VOCs and SVOCs analysis (rationale 1). As discussed in Section 3.3.3.1 the Outfall 001 upgradient sample analytical data show that the concentrations of all metals detected in the upgradient sample are higher than those detected at the downgradient sample. The data indicate that the sources of impacts that are being detected at MP001 may be from upgradient offsite sources as mercury has not been detected groundwater samples collected during the RFI investigation from on Site monitoring wells located in the drainage area for Outfall 001. Therefore, it is recommended that on additional

upgradient/downgradient paired sample set be collected and analyzed for metals. If the sampling confirms that the upgradient sample detected metals at higher concentrations than the downgradient sample then no additional sampling will be completed at Outfall 001. If the additional sampling does not confirm that the metals impacts are likely from upgradient offsite sources, then the Option B Sampling Plan will be implemented.

- **Option B** – Eliminate VOCs, SVOCs, antimony, barium, beryllium, cobalt, manganese, nickel, silver, and thallium analysis (rationale 1). Reduce arsenic, cadmium and vanadium to annual analysis (rationale 2). Reduce zinc analysis to quarterly (rationale 4). Maintain chromium, copper, cyanide, lead, mercury, and selenium analysis monthly (rationale 5).

Outfall 002

Based on NPMP data collected to date and a review of data trends it is recommended that:

- Eliminate SVOCs antimony, beryllium, cobalt, nickel, and thallium analysis (rationale 1).
- Reduce VOCs, barium, cadmium, manganese, and zinc to annual analysis (rationale 2).
- Reduce lead and vanadium to quarterly (rationale 4).
- Maintain arsenic, chromium, copper, cyanide, mercury, selenium and silver analysis monthly (rationale 5).

Outfall 003

Based on NPMP data collected to date, including the upgradient sampling analysis and a review of data trends it is recommended that:

- **Option A** – Eliminate VOCs, SVOCs, and PCB analysis (rationale 1). As discussed in Section 3.3.3.3 the Outfall 003 upgradient samples analytical data show that the concentrations of several metals were detected in the upgradient sample at higher than those detected at the downgradient sample. The data indicate that upgradient offsite sources are likely contributing to the mercury impacts that are being detected at MP003. Therefore, it is recommended that on additional upgradient/downgradient paired sample set be collected and analyzed for metals. If the sampling confirms that the upgradient sample

detected metals at higher concentrations than the downgradient sample then no additional sampling will be completed at Outfall 003. If the additional sampling does not confirm that the metals impacts are likely from upgradient offsite sources, then the Option B Sampling Plan will be implemented.

- **Option B** – Eliminate VOCs, SVOCs, PCBs, antimony, barium, beryllium, cadmium, cobalt, nickel, selenium, and thallium analysis (rationale 1). Reduce vanadium and zinc to annual analysis (rationale 2). Reduce arsenic to semi-annual analysis (rationale 3), Reduce chromium, copper, manganese to quarterly (rationale 4). Maintain cyanide, lead, mercury, and silver analysis monthly (rationale 5).

Outfall 005

Based on NPMP data collected to date and a review of data trends it is recommended that:

- Eliminate SVOCs, PCBs, antimony, barium, beryllium, cobalt, cyanide, selenium and thallium (rationale 1).
- Reduce cadmium and vanadium to annual analysis (rationale 2).
- Reduce manganese to semi-annual analysis (rationale 3).
- Reduce chromium and nickel to quarterly (rationale 4).
- Maintain arsenic, copper, lead, mercury, silver, and zinc analysis monthly (rationale 5).

Outfall 006

Based on NPMP data collected to date and a review of data trends it is recommended that:

- Eliminate VOCs, antimony, barium, beryllium, cadmium, cobalt, cyanide, manganese, nickel, selenium, silver, vanadium and zinc (rationale 1).
- Reduce arsenic and lead to semi-annual analysis (rationale 3).
- Reduce chromium and copper to quarterly (rationale 4).

- Maintain mercury analysis monthly (rationale 5).

Outfall 007

Based on NPMP data collected to date and a review of data trends it is recommended that:

- Eliminate VOCs, SVOCs, antimony, barium, beryllium, cadmium, cobalt, copper, cyanide, manganese, nickel, selenium, silver, vanadium and zinc (rationale 1).
- Reduce arsenic to annual analysis (rationale 2).
- Reduce chromium and lead to semi-annual analysis (rationale 3).
- Maintain mercury analysis monthly (rationale 5).

Outfall 009

Based on NPMP data collected to date and a review of data trends it is recommended that:

- Eliminate VOCs, SVOCs, antimony, beryllium, cobalt, nickel, selenium, silver (rationale 1).
- Reduce barium and thallium to annual analysis (rationale 2).
- Maintain arsenic, cadmium, chromium, copper, cyanide, lead, manganese, mercury, vanadium, and zinc analysis monthly (rationale 5).

Outfall 010

Based on NPMP data collected to date and a review of data trends it is recommended that:

- Eliminate VOCs, SVOCs, antimony, beryllium, cobalt, selenium, silver, thallium (rationale 1).
- Reduce nickel and vanadium to semi-annual analysis (rationale 3).

- Reduce barium to quarterly analysis (rationale 3).
- Maintain arsenic, cadmium, chromium, copper, cyanide, lead, manganese, mercury, and zinc analysis monthly (rationale 5).

Outfall 011

Based on NPMP data collected to date and a review of data trends it is recommended that:

- Eliminate VOCs, SVOCs, antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, cyanide, manganese, nickel, selenium, silver, thallium and zinc (rationale 1).
- Reduce vanadium to annual analysis (rationale 2).
- Reduce lead to semi-annual analysis (rationale 3).
- Reduce copper and mercury to quarterly analysis (rationale 4).

Outfall 013

Based on NPMP data collected to date, including the upgradient sampling analysis and a review of data trends it is recommended that:

- Eliminate VOCs, antimony, barium, beryllium, cadmium, cobalt, nickel, selenium, silver, and thallium analysis (rationale 1).
- Reduce manganese and vanadium to annual analysis (rationale 2).
- Reduce zinc to semi-annual analysis (rationale 3),

Maintain arsenic, chromium, copper, cyanide, lead, and mercury analysis monthly (rationale 5).

4. Soil Corrective Measures

4.1 AOI-09B South Lead Soil Impact Delineation Activities

Lead soil sampling activities were performed at the AOI 09-B South area to further refine the current understanding of the horizontal and vertical extent of lead impacted soil in the vicinity of monitoring well/soil sampling location RFI-09-56 and to more accurately define the area requiring engineering controls (i.e. surface cover) to provide protection from potential direct contact exposure. During the RCRA RFI lead was detected at AOI 09-B South above the MDEQ Nonresidential Direct Contact (NDC) Criteria of 900 milligrams per kilogram (mg/kg) in a soil sample that was collected from 2 to 4 feet bgs for sample location RFI-09-56. The analytical data from RFI-09-56 was evaluated in the Site human health risk assessment (HHRA) for AOI Group 09-B. Based on the HHRA evaluation of lead concentrations at RFI-09-56, the *RCRA Revised CMP* (ARCADIS, 2008) indicated that the potential for unacceptable exposure in the future would be mitigated by establishing a deed restriction limiting future excavation and implementing engineering controls (maintaining a surface cover consistent with current conditions).

4.1.1 Summary of Field Activities

A total of eight soil borings were completed at locations approximately 50 feet and 100 feet north, east, south and west of RFI-09-56 in September 2011. Locations are included on **Figure 12**. The depth to groundwater in the vicinity of RFI-09-56 is approximately 5.5 ft bgs; therefore, soil samples were advanced vertically using a hand auger to a depth of approximately 5 feet bgs. Soil samples were collected from 0 to 2 feet bgs and from 3 to 5 feet bgs at each location. The soil samples were submitted to Merit Laboratories located in East Lansing, Michigan for the analysis of lead. Following the completion of soil sample collection activities, the eight soil boring locations were surveyed.

The soil samples were collected and analyzed using methods and procedures that are consistent with those described in the Site's FSP/QAPP (Appendix C of the *RCRA Facility Investigation Work Plan* [BBL, 2001]) (RFI Work Plan) and the *Health and Safety Plan* (HASP) provided as Appendix E of the RFI Work Plan. Laboratory data reporting and data verification/validation was completed in accordance with the methods and procedures described in Section 7.1 of the *CMI Work Plan* (ARCADIS, 2010a).

4.1.2 Summary of Results

A total of 16 soil samples were submitted for laboratory analysis of lead. Lead was detected at concentrations ranging from 1.82 mg/kg to 106 mg/kg. The detected concentrations are below MDEQ Part 201 NDC Criteria. The analytical results are summarized in **Table 11**.

Based on evaluation of the additional soil samples, the current extent of the area requiring restrictions and engineering controls associated with the exceedance at RFI-09-56 (based on the Thiessen polygon) is significantly larger than necessary to be protective of potential direct contact exposure. **Figure 12** presents the revised extent of area requiring restrictions and engineering controls associated with RFI-09-56, which is approximately 5,800 square feet, a reduction in size from 69,000 square feet (as approved by Mr. Chris Black of the USEPA via Email correspondence with ARCADIS on February 7, 2012).

4.2 **Maintenance of Select Surface Covers**

The five AOIs discussed below contain six areas where surface cover is inspected and maintained. In the areas where a concrete slab or asphalt pavement already exists, these areas will be maintained, as necessary, to ensure that the surface cover remains as a barrier for potential direct contact and/or particulate inhalation exposure. The locations of these areas are located in the Southend of the Site and are depicted on **Figure 13** and include:

- **AOI Group 02-C**: This AOI (one area) is associated with former Factory 86, Building 02, and relates to a former sump in the former Materials Laboratory.

- **AOI Group 12-A**: This AOI (one area) is associated with former Factory 86, Building 12, and relates primarily to several press pits and associated sumps, pits, trenches, and traps.

- **AOI Group 29-A**: This AOI (one area) is associated with the former Building 29, and relates to a pit for a cable-operated elevator and former work slabs with oil staining.

- **AOI Group 09-A**: This AOI (one area) is associated with the former Building 9, and relates to a floor trench and underground storage tank (UST) system.

- **AOI Group 09-B:** This AOI includes two separate areas, one of which is located in the general vicinity of the Former Building 31/Hamilton Avenue Tank Farm, and the other is associated with the former AC Spark Plug property.

4.2.1 Summary of Field Activities

These areas were photographed and visually inspected as a baseline in July 2010 and thereafter inspected and photographed on a quarterly basis. Inspections were performed in March, June, September and December 2011. During each inspection the condition of cover was inspected and documented in an inspection log. Documented items include the type of cover (concrete, stone, vegetation, etc.), the condition of concrete or asphalt cover (good, fair, poor), and whether or not conditions of the cover have changed since the last inspection date. Photos of each inspection area are also included with the inspection log. Inspection logs are included in **Appendix C**.

4.2.2 Summary of Results

Inspections reveal broken concrete and sparsely vegetated spots in several of the AOIs, thus posing a potential risk for direct contact with soils. March, June, September and December 2011inspection logs are included in **Appendix C**.

4.2.3 Plan Modifications

Consideration of long term solutions for providing adequate cover to the areas is in the design phase. ARCADIS is currently evaluating options (soil, stone, concrete, asphalt) to cover these areas as well as cost, maintenance and life of the surface cover. ARCADIS anticipates implementation of cover installation to these areas later in2012.

4.3 **CSX Property Lead Impacted Soil**

RACER and ARCADIS continued to pursue an access agreement with CSX during 2011. The access agreement is required in order to complete excavation of impacted soils on CSX property

5. Non-CMI Activity Summary

5.1 Outfall Maintenance

RACER maintains oil absorbent booms and oil containment booms at Outfalls 002, 003, 004 and 005 in order to contain periodic oil sheens at the Flint River. The booms at each outfall consists of an initial line of oil absorbent booms to contain and absorb during normal outfall flow and an oil containment boom set farther out to contain any discharge during high flow events. A secondary oil containment boom line is set up on an as needed basis to provide an additional level of protection. All booms are installed in such a manner that allows them to adjust to the fluctuating river level. The outfall containment areas are currently inspected for oil/debris accumulation, absorbent boom saturation, and that the containment booms are in good condition and functioning properly on a daily basis. Based on visual observations, the booms are changed on an as-needed basis to ensure proper working order. In addition, accumulated oil and debris in the outfall containment areas are cleaned via vacuum extraction and oil absorbent slabs on an as-needed basis to prevent potential environmental releases.

5.2 Storm Sewer Studies

Absorbent boom studies were conducted in the on Site storm sewers for Outfalls 002 and 004 to identify areas of potential oil infiltration. The installed absorbent booms were monitored weekly for oil saturation. Upon review of the observations additional booms were installed upgradient or downgradient to determine locations of infiltration. The boom studies were complete at Outfalls 002 and 004 in 2011. Additional boom studies will be conducted along Outfall 003 in 2012. Based on the results of the Outfall 002 boom study, evaluation of Site data and design activities for minimizing oil leaving the Site in the line leading to Outfall 002 will be conducted in 2012.

In addition oil absorbent booms are maintained in select on Site manholes along the storm sewer lines associated with Outfalls 002 and 005 to capture oil and prevent it from reaching the outfalls. The booms are inspected on a bi-weekly basis. Based on visual inspections the booms are changed on an as-needed basis to ensure proper working order and disposed appropriately.

5.3 Outfall 003/004 Storm Water Diversion and Treatment System

The Outfall 003/004 System serves to remove oils and sediment in the Outfall 003 and 004 storm sewers prior to reaching the Flint River. The general concept of the System was to modify two existing storm water vaults to divert water into a newly constructed treatment system and finally return treated water to the storm sewer network. Major system components include an oil-water separator, BaySeparator™ debris removal

system, HDPE conveyance piping, overflow weirs, and above ground structures (bollards, fencing, etc.). Storm water enters the System via a 12-inch and an 8-inch HDPE pipe inlet diverted from two existing storm water vaults (manholes MH 3-6 and 4-6, respectively). Steel overflow weirs were installed in each vault to aid in the diversion process. Sediment, debris, and oils are then captured in the BaySeparator™ consisting of a dual manhole system. Water then travels through an oil-water separator removing floating and emulsified oils. Finally, treated water is returned to the Outfall 003 storm sewer for discharge into the nearby Flint River.

The Outfall 003/004 System continues to operate and is maintained at least once per week. Water levels and oil levels are actively being monitored in vaults, the BaySeparator™ manholes, and the oil-water separator. Storm water downstream of the System is also being monitored in manholes as well as the Flint River outfalls to check for accumulating oils. Routine maintenance events were scheduled based on field observations and levels; including removal of debris and trash racks from the diversion structures, jetting of HDPE piping to clear blockage, and a cleaning event of the BaySeparator™ system. The BaySeparator™ cleaning event included removal of oil and sediment utilizing a vacuum box and power washing the surfaces to ensure all material was removed.

5.4 RCRA WMU Closures

Ten historic RCRA Waste Management Units (WMUs) are present at the Site. In April 2007, a *RCRA Waste Management Unit Closure Status Report* (Closure Status Report) was submitted to the Michigan Department of Environmental Quality (MDEQ) – Waste and Hazardous Materials Division (WHMD) summarizing 10 WMU areas and the proposed activities / information required for closure (ARCADIS BBL, 2007). The locations of the WMUs are presented on **Figure 14.** The WMUs are identified as:

- Factory 36, Building 36, Engine Plant Northeast Dock (WMU #1)
- Division 25, East of Factory 10, Outside Waste Thinner Tank (WMU #2)
- Factory 10, Building 20, Transmission Plant Tank Area (WMU #3)
- Factory 10, Salvage Yard Tank Storage Area (WMU #4)
- Factory 10, Salvage Yard Container Storage Area (WMU #5)
- Factory 31, Building 32, Axle Plant North Dock (WMU #6)

- Building 41A, Assembly Plant Waste Storage Tank Area (WMU #7)
- Building 02, Container Storage Area (WMU #8)
- Division 29, Building 23, Tool Manufacturing Cyanide Container Storage Area (WMU #9)
- Factory 86, Building 04, Assembly Plant Waste Storage Tanks (WMU #10)

In July 2009, the MDEQ – WHMD issued a response to the Closure Status Report detailing guidance on the activities needed to obtain closure of the 10 WMU areas (MDEQ, 2009). The MDEQ letter also concurred with the clean closure of WMU # 9 and deferred WMU #3 to corrective action and stated that the work proposed for closure would be conducted as part of ongoing Site activities.

The WMUs were addressed in three closure work plans; WMU #1 work plan, the Northend work plan (WMU #2, 4, 5, and 6), and the Southend work plan (WMU #7, 8, and 10).

The closure work plan approval for WMU #1 was approved by the MDEQ in 2010. Closure activities for the Factory 36 WMU, WMU #1 were completed in 2011 and a Certification of Closure was submitted to the MDEQ in June 2011. WMU #1 received Closure status from the MDEQ on September 20, 2011.

The Northend WMU closure work plan received approval from the MDEQ on August 4, 2011. Closure activities including industrial cleaning and sampling of existing tanks and the secondary containment in WMU #4 and 5 was completed on October 10, 2011. Closure sampling activities for WMU #4, 5, and 6 including concrete coring and collection of soil samples were completed on December 15, 2011. A subsurface concrete slab was encountered during closure sampling activities at WMU #2 requiring additional guidance from the MDEQ. This work was concluded in January 2012. ARCADIS is currently evaluating the analytical results and preparing a closure report for the Northend WMUs for submittal to the MDEQ.

The Southend WMU closure work plan received approval from the MDEQ on October 7, 2011. Closure sampling activities for WMU #7, 8, and 10 including concrete coring and collection of soil samples were completed in January 2012. ARCADIS is currently evaluating the analytical results and preparing a closure report for the Southend WMUs for submittal to the MDEQ.

6. References

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Tables

Table 1. Summary of 2011 LIF Investigation Results, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID	Maximum Observed Fluorescence	Depth of Observed Maximum Fluorescence	Vertical Range of LIF Response		Refusal Encountered	Final Depth of Boring
			Top	Bottom		
	%RE	ft bgs	ft bgs	ft bgs		ft bgs
LIF-02-023	8	2.1	BG	BG	No	24.8
LIF-02-024	10	1.6	BG	BG	Yes	6.1
LIF-02-025	3	3.5	BG	BG	No	27.4
LIF-02-026	3	1.1	BG	BG	No	20.0
LIF-02-027	2	12.5	BG	BG	No	22.4
LIF-02-028	11	4.6	BG	BG	Yes	13.9
LIF-16-019	2	4.6	BG	BG	Yes	5.0
LIF-16-019A	3	3.0	BG	BG	Yes	4.5
LIF-16-020	1	2.0	BG	BG	Yes	5.9
LIF-16-020A	1	0.9	BG	BG	Yes	5.9
LIF-16-020B	2	5.3	BG	BG	Yes	5.9
LIF-16-021	1	13.2	BG	BG	No	24.5
LIF-16-022	9	7.5	6.8	9.7	No	23.7
LIF-16-023	222	12.2	9.6	21.8	No	22.7
LIF-16-024	1	2.9	BG	BG	No	22.4
LIF-40-026	6	4.4	BG	BG	No	30.0
LIF-40-027	2	15.9	BG	BG	No	24.4
LIF-40-028	6	4.6	BG	BG	No	30.0
LIF-40-029	9	8.5	8.0	8.8	No	30.0
LIF-12-044	27	13.3	12.9	13.7	No	30.0
LIF-12-045	2	0.9	BG	BG	No	30.0
LIF-12-046	2	10.4	BG	BG	No	21.4
LIF-12-047	2	6.2	BG	BG	No	30.0
LIF-03-001	4.9	19.0	BG	BG	No	21.4
LIF-03-002	319	10.5	6.0	17.1	No	26.4
LIF-03-003	21	14.6	12.1	16.4	No	25.1
LIF-10-001	2	17.7	BG	BG	No	30.0
LIF-10-002	276	6.4	5.0	13.5	No	30.1
LIF-10-003	23	0.5	5.0	10.5	No	30.0
LIF-10-004	4	0.7	BG	BG	No	23.8
LIF-10-005	2	15.0	BG	BG	No	25.6
LIF-10-006	2	18.9	BG	BG	No	28.3
LIF-10-007	2	29.7	BG	BG	No	30.0
LIF-10-008	54	6.8	5.0	8.8	No	29.1
LIF-10-009	1	7.2	BG	BG	Yes	7.8
LIF-10-010	70	13.5	7.2	27.2	No	30.0
LIF-10-011	113	10.7	6.1	20.6	No	30.0
LIF-10-012	18	9.4	6.2	13.5	No	30.0
LIF-10-013	2	21.3	BG	BG	No	30.0
LIF-10-014	172	15.7	5.0	21.0	No	30.0
LIF-10-015	4	5.1	BG	BG	No	30.1
LIF-10-016	1	1.0	BG	BG	No	30.0
LIF-36-001	162	12.2	5.0	15.6	No	30.0
LIF-36-002	133	11.3	5.0	17.9	No	30.0
LIF-36-003	151	12.5	5.0	18.3	No	30.0
LIF-36-004	27	14.0	5.0	15.5	No	30.0

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			Top	Bottom		
	%RE	ft bgs	ft bgs	ft bgs		ft bgs
LIF-36-005	136	14.7	8.6	23.2	No	30.0
LIF-36-006	142	14.3	7.1	17.1	No	30.0
LIF-36-007	56	7.4	5.0	14.7	No	30.0
LIF-36-008	139	11.9	5.0	17.1	No	30.0
LIF-36-009	19	1.3	BG	BG	Yes	6.0
LIF-36-010	437	15.6	5.0	18.1	No	30.0
LIF-36-011	323	13.3	11.1	19.8	No	30.0
LIF-36-012	302	13.6	10.8	19.1	No	30.0
LIF-36-013	149	20.1	5.0	21.2	No	30.0
LIF-36-014	314	12.6	5.0	19.3	No	30.0
LIF-36-015	22	1.9	5.0	13.0	No	30.0
LIF-36-016	3	0.0	BG	BG	No	30.1
LIF-36-017	180	14.3	5.0	15.8	No	30.0
LIF-36-018	392	14.2	5.0	20.1	No	30.0
LIF-36-019	43	5.4	5.0	9.4	No	9.4
LIF-36-020	292	16.9	5.0	22.2	No	30.0
LIF-36-021	300	17.7	5.0	21.9	No	30.0
LIF-36-022	55	4.6	BG	BG	No	30.0
LIF-36-023	27	4.8	5.0	9.9	No	30.0
LIF-36-024	225	19.0	5.0	22.0	No	30.0
LIF-36-025	260	13.6	5.0	22.2	No	30.1
LIF-36-026	359	15.3	5.0	20.1	No	30.0
LIF-36-027	243	12.1	5.0	19.0	No	30.0
LIF-36-028	8	2.7	BG	BG	No	30.0
LIF-36-029	3	0.8	BG	BG	Yes	6.5
LIF-36-029A	3	5.8	BG	BG	No	30.0
LIF-36-030	122	13.7	5.0	16.4	No	30.0
LIF-36-031	51	11.3	7.2	14.9	No	30.0
LIF-36-032	146	11.2	5.0	13.8	No	30.0
LIF-36-033	149	9.1	7.3	11.0	No	30.0
LIF-36-034	11	5.0	5.0	7.2	No	30.0
LIF-36-035	183	13.9	5.0	16.0	No	30.0
LIF-36-036	3	3.1	BG	BG	No	30.0
LIF-36-037	3	1.2	BG	BG	No	30.0
LIF-36-038	243	18.0	5.0	24.7	No	30.0
LIF-36-039	2	26.0	BG	BG	No	30.0
LIF-36-040	433	15.6	5.0	22.4	No	30.0
LIF-36-041	315	14.8	12.5	20.5	No	30.0
LIF-36-042	36	1.1	BG	BG	Yes	5.4
LIF-36-043	28	3.7	5.0	7.5	No	30.0
LIF-36-044	236	10.6	8.0	34.8	No	36.4
LIF-36-045	2	23.7	BG	BG	No	30.0
LIF-36-046	257	12.3	11.4	15.8	No	30.0
LIF-36-047	2	25.2	BG	BG	No	30.0
LIF-36-048	2	26.3	BG	BG	No	30.0
LIF-36-049	2	24.6	BG	BG	No	30.0
LIF-36-050	2	19.8	BG	BG	No	26.6
LIF-36-051	2	22.2	BG	BG	No	30.0

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			Top	Bottom		
	%RE	ft bgs	ft bgs	ft bgs		ft bgs
LIF-81-001	1	0.4	BG	BG	No	25.4
LIF-81-002	208	6.2	5.0	10.6	No	23.5
LIF-81-003	136	9.6	5.9	11.8	No	22.6
LIF-81-004	192	6.5	5.0	21.1	No	24.7
LIF-81-005	33	5.2	5.0	6.6	No	23.0
LIF-81-006	3	0.0	BG	BG	No	24.5
LIF-81-007	41	5.4	5.0	7.5	No	22.3
LIF-81-008	5	6.7	5.2	7.8	No	36.2
LIF-81-009	112	6.0	5.0	9.3	No	20.5
LIF-81-010	6	0.5	BG	BG	No	23.3
LIF-81-011	4	0.0	BG	BG	Yes	6.0
LIF-83-001	10	4.2	BG	BG	Yes	18.2
LIF-83-002	13	1.9	BG	BG	Yes	19.2
LIF-83-003	174	9.7	9.1	18.0	No	23.5
LIF-83-004	6	4.8	BG	BG	No	22.6
LIF-83-005	33	3.9	5.0	6.7	No	22.7
LIF-83-006	418	16.8	5.0	19.6	No	23.8
LIF-83-007	3	0.2	BG	BG	No	30.0
LIF-83-008	2	25.2	BG	BG	No	30.1
LIF-83-009	157	8.5	6.6	11.8	No	30.0
LIF-83-010	36	4.5	5.0	5.8	Yes	5.8
LIF-83-010A	98	2.6	5.0	9.2	No	30.0
LIF-83-011	32	14.3	11.7	16.9	No	30.0
LIF-83-012	186	12.3	5.0	16.9	No	28.7
LIF-83-013	189	13.7	5.0	15.6	No	27.3
LIF-83-014	5	9.1	7.7	9.7	No	27.4
LIF-83-015	400	10.5	5.0	24.0	No	25.7
LIF-83-016	226	6.8	5.0	13.2	No	27.1
LIF-83-017	5	5.4	5.3	7.7	No	28.3
LIF-83-018	194	11.3	7.7	19.1	No	30.0
LIF-83-019	114	6.6	5.0	11.6	No	33.8
LIF-86-001	2	0.6	BG	BG	No	26.4
LIF-86-002	2	13.5	BG	BG	Yes	17.8
LIF-86-003	4	26.0	BG	BG	No	30.0
LIF-86-004	419	30.0	13.5	34.5	No	38.0
LIF-86-005	1	28.6	BG	BG	No	30.0

Notes:

BG	<5% of orange waveform responses above the top of clay were considered background fluoresence of the native fill materials and not representative of petroleum impacts. As well
% RE	Percentage of Reference Emitter Standard
ft bgs	Feet below ground surface
ft	Feet

Table 2. Groundwater and LNAPL Elevation Monitoring Locations - Northend, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Area of Interest (AOI)	Location	Comments
03-1	03-03R	LNAPL Monitoring Program Location
03-1	03-105R3	LNAPL Monitoring Program Location
03-1	RFI-03-02	LNAPL Monitoring Program Location
03-1	RFI-03-03	Groundwater Elevation Monitoring Location
03-1	70-109	Groundwater Elevation Monitoring Location
03-1	70-100	Groundwater Elevation Monitoring Location
05-1	43-161	LNAPL Monitoring Program Location
05-1	43-165	LNAPL Monitoring Program Location
05-1	43-166	LNAPL Monitoring Program Location
05-1	43-167	LNAPL Monitoring Program Location
05-1	RFI-05-13	LNAPL Monitoring Program Location
05-1	RFI-05-14	LNAPL Monitoring Program Location
05-4	43-103	Groundwater Elevation Monitoring Location
05-5	RFI-05-06	LNAPL Monitoring Program Location
05-5	RFI-05-08	Groundwater Elevation Monitoring Location
05-5	RW-05 North	LNAPL Monitoring Program Location
05-6	43-140	Groundwater Elevation Monitoring Location
05-6	43-242	Groundwater Elevation Monitoring Location
07-1	RFI-07-03	Groundwater Elevation Monitoring Location
07-1	OW-3S	Groundwater Elevation Monitoring Location
07-1	OW-5	Groundwater Elevation Monitoring Location
07-1	GM-1	Groundwater Elevation Monitoring Location
07-1	GM-2	Groundwater Elevation Monitoring Location
07-1	GM-3	Groundwater Elevation Monitoring Location
07-1	GM-4	Groundwater Elevation Monitoring Location
07-1	GM-5	Groundwater Elevation Monitoring Location
07-1	GM-6	Groundwater Elevation Monitoring Location
07-1	GM-7	Groundwater Elevation Monitoring Location
07-1	GM-8	Groundwater Elevation Monitoring Location
07-1	GM-9	Groundwater Elevation Monitoring Location
07-1	GM-10	Groundwater Elevation Monitoring Location
07-1	GM-12	Groundwater Elevation Monitoring Location
07-3	07-01	Groundwater Elevation Monitoring Location
07-3	RFI-07-08	Groundwater Elevation Monitoring Location
07-3	RFI-86-14	Groundwater Elevation Monitoring Location
10-1	20-144	Groundwater Elevation Monitoring Location
10-2	RFI-10-24	Groundwater Elevation Monitoring Location
10-2	RFI-10-26	Groundwater Elevation Monitoring Location
10-2	RFI-10-29	Groundwater Elevation Monitoring Location
10-2	RFI-10-33	Groundwater Elevation Monitoring Location
10-2	RFI-10-35	Groundwater Elevation Monitoring Location
10-2	RFI-10-36	Groundwater Elevation Monitoring Location
10-3	RFI-10-07	Groundwater Elevation Monitoring Location
10-3	RFI-10-28	Groundwater Elevation Monitoring Location
10-4	20-145	Groundwater Elevation Monitoring Location
10-4	20-160	LNAPL Monitoring Program Location
10-4	20-162	LNAPL Monitoring Program Location
10-4	20-163R	LNAPL Monitoring Program Location
10-4	20-168	LNAPL Monitoring Program Location
10-4	20-FP10R	Groundwater Elevation Monitoring Location
10-4	20-FP12	LNAPL Monitoring Program Location
10-4	20-FP8	LNAPL Monitoring Program Location
10-4	20-FP9	LNAPL Monitoring Program Location
10-4	RFI-03-04	LNAPL Monitoring Program Location
10-4	RFI-10-26	LNAPL Monitoring Program Location

Table 2. Groundwater and LNAPL Elevation Monitoring Locations - Northend, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Area of Interest (AOI)	Location	Comments
36-1	36-FP2	LNAPL Monitoring Program Location
36-1	36-FP3	LNAPL Monitoring Program Location
36-1	36-FP4	LNAPL Monitoring Program Location
36-1	36-FP6	LNAPL Monitoring Program Location
36-1	36-FP7	LNAPL Monitoring Program Location
36-1	36-FP8	LNAPL Monitoring Program Location
36-1	RFI-36-03	LNAPL Monitoring Program Location
36-1	RFI-36-04	LNAPL Monitoring Program Location
36-1	RFI-36-05	LNAPL Monitoring Program Location
36-1	RFI-36-06	LNAPL Monitoring Program Location
36-1	RFI-36-07	LNAPL Monitoring Program Location
36-1	RFI-36-19	Groundwater Elevation Monitoring Location
36-1	RFI-36-20	Groundwater Elevation Monitoring Location
36-1	RFI-36-25R	Groundwater Elevation Monitoring Location
36-1	RFI-36-27	LNAPL Monitoring Program Location
36-1	RFI-36-29R	LNAPL Monitoring Program Location
36-1	RFI-36-37	Groundwater Elevation Monitoring Location
36-1	RFI-36-46	Groundwater Elevation Monitoring Location
36-1	RFI-36-47	Groundwater Elevation Monitoring Location
36-1	RFI-36-48	Groundwater Elevation Monitoring Location
36-1	RFI-36-55R	Groundwater Elevation Monitoring Location
36-1	RFI-36-56	Groundwater Elevation Monitoring Location
36-1	RW-1	LNAPL Monitoring Program Location
36-1	RW-3	LNAPL Monitoring Program Location
36-2	RFI-36-19	Groundwater Elevation Monitoring Location
36-2	RFI-36-37	Groundwater Elevation Monitoring Location
36-4	RFI-36-12	Groundwater Elevation Monitoring Location
36-5	20-500R	Groundwater Elevation Monitoring Location
36-5	20-502	LNAPL Monitoring Program Location
36-5	20-503	LNAPL Monitoring Program Location
36-5	20-506	LNAPL Monitoring Program Location
36-5	37-RW-NORTH	LNAPL Monitoring Program Location
36-5	37-RW-SOUTH	LNAPL Monitoring Program Location
36-5	RFI-36-13	LNAPL Monitoring Program Location
36-5	RFI-36-14	Groundwater Elevation Monitoring Location
38-1	RFI-38-04	Groundwater Elevation Monitoring Location
38-1	RFI-38-05	Groundwater Elevation Monitoring Location
38-1	36-101	Groundwater Elevation Monitoring Location
38-1	38-120	Groundwater Elevation Monitoring Location
38-1	36-121	Groundwater Elevation Monitoring Location
55-1	55-1	Groundwater Elevation Monitoring Location
55-1	55-2	Groundwater Elevation Monitoring Location
55-1	RFI-55-01	Groundwater Elevation Monitoring Location
55-1	RFI-55-02	Groundwater Elevation Monitoring Location
55-1	RFI-55-12	Groundwater Elevation Monitoring Location
65-1	43-141	Groundwater Elevation Monitoring Location
81-1	RFI-81-02	Groundwater Elevation Monitoring Location
81-1	RFI-81-35	Groundwater Elevation Monitoring Location
81-1	RFI-81-43	LNAPL Monitoring Program Location
81-2	70-101	LNAPL Monitoring Program Location
81-2	70-103	LNAPL Monitoring Program Location
81-2	70-105	LNAPL Monitoring Program Location
81-2	70-107	LNAPL Monitoring Program Location
81-2	70-107R	LNAPL Monitoring Program Location
81-2	70-108R	LNAPL Monitoring Program Location
81-2	70-163	Groundwater Elevation Monitoring Location
81-2	70-164	LNAPL Monitoring Program Location
81-2	70-165	Groundwater Elevation Monitoring Location
81-2	RFI-81-03	Groundwater Elevation Monitoring Location
81-2	RFI-81-13	Groundwater Elevation Monitoring Location

Table 2. Groundwater and LNAPL Elevation Monitoring Locations - Northend, 2011 CMI Annual Report RACER Trust, NAO Flint Operations Site, Flint, Michigan

Area of Interest (AOI)	Location	Comments
81-2	RFI-81-21	Groundwater Elevation Monitoring Location
81-2	RFI-81-45	Groundwater Elevation Monitoring Location
81-2	RFI-81-47	LNAPL Monitoring Program Location
81-2	RFI-81-49	LNAPL Monitoring Program Location
81-2	RFI-81-50	Groundwater Elevation Monitoring Location
81-3	RFI-81-07	Groundwater Elevation Monitoring Location
81-3	RFI-81-08	Groundwater Elevation Monitoring Location
81-3	RFI-81-33	Groundwater Elevation Monitoring Location
81-3	RFI-81-51	Groundwater Elevation Monitoring Location
83/84-1	RFI-83/84-01	Groundwater Elevation Monitoring Location
83/84-1	RFI-83/84-03	LNAPL Monitoring Program Location
83/84-1	RFI-83/84-07	LNAPL Monitoring Program Location
83/84-1	RFI-83/84-29	Groundwater Elevation Monitoring Location
83/84-2	RFI-83/84-04	LNAPL Monitoring Program Location
83/84-2	RFI-83/84-06	LNAPL Monitoring Program Location
83/84-2	RFI-83/84-49	LNAPL Monitoring Program Location
83/84-2	RFI-83/84-27	LNAPL Monitoring Program Location
83/84-2	RFI-83/84-53	Groundwater Elevation Monitoring Location
83/84-4	RFI-83/84-54	Groundwater Elevation Monitoring Location
83/84-7	88-7	Groundwater Elevation Monitoring Location
83/84-7	RFI-83/84-11	Groundwater Elevation Monitoring Location
85-1	RFI-85-02R	LNAPL Monitoring Program Location
85-1	RFI-85-04R	Groundwater Elevation Monitoring Location
85-1	RFI-85-05	Groundwater Elevation Monitoring Location
86-1	87-FP1	LNAPL Monitoring Program Location
86-1	87-FPD2	Groundwater Elevation Monitoring Location
86-1	87-FPD3	Groundwater Elevation Monitoring Location
86-1	MW-00-FP6	LNAPL Monitoring Program Location
86-1	RFI-86-02	LNAPL Monitoring Program Location
86-1	RFI-86-03	LNAPL Monitoring Program Location
86-1	RFI-86-01R	Groundwater Elevation Monitoring Location
86-1	RFI-86-06D	LNAPL Monitoring Program Location
86-1	RFI-86-06S	LNAPL Monitoring Program Location
86-1	RFI-86-08R	Groundwater Elevation Monitoring Location
86-1	RFI-86-16R	Groundwater Elevation Monitoring Location

Note:
Measurements will be collected on an annual basis.

Table 3. Groundwater and LNAPL Elevation Monitoring Locations - Southend, 2011 CMI Annual Report RACER Trust, NAO Flint Operations Site, Flint, Michigan

Area of Interest (AOI)	Monitoring Location	Monitoring Program	Comments
02-B	RFI-02-12	Groundwater Elevation Monitoring Location	
02-B	RFI-02-14	LNAPL Monitoring Program Location	
02-B	RFI-02-15	LNAPL Monitoring Program Location	
02-B	RFI-02-16	LNAPL Monitoring Program Location	
02-B	RFI-02-17	LNAPL Monitoring Program Location	
02-B	RFI-02-18	LNAPL Monitoring Program Location	
02-B	RFI-02-19	LNAPL Monitoring Program Location	
02-B	RFI-02-22	LNAPL Monitoring Program Location	
02-B	RFI-02-23	LNAPL Monitoring Program Location	
02-B	RFI-02-24	Groundwater Elevation Monitoring Location	
02-E	RFI-02-05R	Groundwater Elevation Monitoring Location	
02-F	RFI-02-07	Groundwater Elevation Monitoring Location	
02-F	RFI-02-13	Groundwater Elevation Monitoring Location	
02-F	RFI-86-01R	Groundwater Elevation Monitoring Location	
04-D	04-1	Groundwater Elevation Monitoring Location	
04-D	04-3	Groundwater Elevation Monitoring Location	
04-D	04-4	Groundwater Elevation Monitoring Location	
09-A	MW-16	Groundwater Elevation Monitoring Location	
09-A	MW-17	Groundwater Elevation Monitoring Location	
09-A	MW-18	Groundwater Elevation Monitoring Location	
09-A	MW-19	Groundwater Elevation Monitoring Location	
09-A	MW-25	Groundwater Elevation Monitoring Location	
09-A	MW-26	Groundwater Elevation Monitoring Location	
09-A	RFI-09-04R	Groundwater Elevation Monitoring Location	
09-A	RFI-09-49R	Groundwater Elevation Monitoring Location	
09-A	RFI-09-53	Groundwater Elevation Monitoring Location	
09-A	RFI-09-56	Groundwater Elevation Monitoring Location	
09-A	RFI-09-57	Groundwater Elevation Monitoring Location	
09-A	RFI-09-58	Groundwater Elevation Monitoring Location	
09-A	MW-26	Groundwater Elevation Monitoring Location	
09-B	RFI-09-46	Groundwater Elevation Monitoring Location	
09-B	11-6-2	Groundwater Elevation Monitoring Location	
09-B	31-1	Groundwater Elevation Monitoring Location	
09-B	31-3	Groundwater Elevation Monitoring Location	
09-B	31-4D	Groundwater Elevation Monitoring Location	
09-B	31-4S	Groundwater Elevation Monitoring Location	
09-B	31-5	Groundwater Elevation Monitoring Location	
09-B	31-7	LNAPL Monitoring Program Location	
09-B	31-8	LNAPL Monitoring Program Location	
09-B	MW-23	Groundwater Elevation Monitoring Location	
09-B	RFI-09-14	Groundwater Elevation Monitoring Location	
09-B	RFI-09-40R	LNAPL Monitoring Program Location	
09-B	RFI-09-44	LNAPL Monitoring Program Location	
09-B	RFI-09-45R	LNAPL Monitoring Program Location	
09-B	RFI-09-46	Groundwater Elevation Monitoring Location	
09-B	RFI-09-47	Groundwater Elevation Monitoring Location	
09-B	RFI-09-48	Groundwater Elevation Monitoring Location	
09-B	RFI-09-52	LNAPL Monitoring Program Location	
12-A	RFI-12-01R	LNAPL Monitoring Program Location	
12-A	RFI-12-02/02R	LNAPL Monitoring Program Location	
12-A	RFI-12-07R2	LNAPL Monitoring Program Location	
12-A	RFI-12-08R	LNAPL Monitoring Program Location	
12-A	RFI-12-42	Groundwater Elevation Monitoring Location	
12-A	RFI-12-09R	LNAPL Monitoring Program Location	
12-A	RFI-12-15	LNAPL Monitoring Program Location	
12-A	RFI-12-21	Groundwater Elevation Monitoring Location	
12-A	RFI-12-22R	LNAPL Monitoring Program Location	
12-A	RFI-12-24	Groundwater Elevation Monitoring Location	
12-A	RFI-12-25	Groundwater Elevation Monitoring Location	
12-A	RFI-12-26	LNAPL Monitoring Program Location	
12-A	RFI-12-27	LNAPL Monitoring Program Location	

Table 3. Groundwater and LNAPL Elevation Monitoring Locations - Southend, 2011 CMI Annual Report RACER Trust, NAO Flint Operations Site, Flint, Michigan

Area of Interest (AOI)	Monitoring Location	Monitoring Program	Comments
12-C	RFI-12-11D	LNAPL Monitoring Program Location	
12-C	RFI-12-11S	LNAPL Monitoring Program Location	
12-C	RFI-12-14R	LNAPL Monitoring Program Location	
12-C	RFI-12-23	LNAPL Monitoring Program Location	
12-C	RFI-12-33	Groundwater Elevation Monitoring Location	
12-C	RFI-12-34	Groundwater Elevation Monitoring Location	
12-C	RFI-12-35	Groundwater Elevation Monitoring Location	
12-C	RFI-12-36	Groundwater Elevation Monitoring Location	
12-C	RFI-12-38	LNAPL Monitoring Program Location	
12-C	RFI-12-40	LNAPL Monitoring Program Location	
12-C	RFI-12-41	LNAPL Monitoring Program Location	
16-A	RFI-16-01	Groundwater Elevation Monitoring Location	
16-C	RFI-16-07	LNAPL Monitoring Program Location	
16-C	RFI-16-04R	LNAPL Monitoring Program Location	
16-C	RFI-16-07	LNAPL Monitoring Program Location	
16-C	RFI-16-08	LNAPL Monitoring Program Location	
16-C	RFI-16-09	LNAPL Monitoring Program Location	
16-C	RFI-16-10	LNAPL Monitoring Program Location	
16-C	RFI-16-12	Groundwater Elevation Monitoring Location	
16-C	RFI-16-20	LNAPL Monitoring Program Location	
16-C	RFI-16-24	Groundwater Elevation Monitoring Location	
17-A	RFI-17-02	Groundwater Elevation Monitoring Location	
17-A	RFI-17-02D	Groundwater Elevation Monitoring Location	
23-A	RFI-23-02R	Groundwater Elevation Monitoring Location	
44-A	RFI-44-05	Groundwater Elevation Monitoring Location	
40-A	40-3	Groundwater Elevation Monitoring Location	
40-A	40-6R	Groundwater Elevation Monitoring Location	
40-A	RFI-40-01R2	Groundwater Elevation Monitoring Location	
40-A	RFI-40-07	Groundwater Elevation Monitoring Location	
40-A	RFI-40-09	Groundwater Elevation Monitoring Location	
40-A	RFI-40-15	Groundwater Elevation Monitoring Location	
40-B	40-07R2	LNAPL Monitoring Program Location	
40-B	RFI-40-02R	LNAPL Monitoring Program Location	
40-B	RFI-40-10R	LNAPL Monitoring Program Location	
40-B	RFI-40-12R	LNAPL Monitoring Program Location	
40-B	RFI-40-13	Groundwater Elevation Monitoring Location	
40-B	RFI-40-14R	LNAPL Monitoring Program Location	
40-B	RFI-40-20	LNAPL Monitoring Program Location	
40-B	RFI-40-25	LNAPL Monitoring Program Location	
40-B	RFI-40-26	LNAPL Monitoring Program Location	
40-C	RFI-40-03	Groundwater Elevation Monitoring Location	
40-D	40-303R	Groundwater Elevation Monitoring Location	
40-D	40-304	Groundwater Elevation Monitoring Location	
40-D	40-305	Groundwater Elevation Monitoring Location	
40-D	RFI-40-04	Groundwater Elevation Monitoring Location	
44-A	04-120	Groundwater Elevation Monitoring Location	
44-A	04-140	Groundwater Elevation Monitoring Location	
44-A	04-160	Groundwater Elevation Monitoring Location	
44-A	RFI-44-05	Groundwater Elevation Monitoring Location	
84-A	RFI-84-06R	Groundwater Elevation Monitoring Location	
84-D	84-6R2D	Groundwater Elevation Monitoring Location	
84-D	84-7D	Groundwater Elevation Monitoring Location	
84-D	RFI-17-02D	Groundwater Elevation Monitoring Location	
84-D	RFI-84-03S	Groundwater Elevation Monitoring Location	
84-D	RFI-84-04D	Groundwater Elevation Monitoring Location	
84-D	RFI-84-04I	Groundwater Elevation Monitoring Location	
84-D	RFI-84-05	Groundwater Elevation Monitoring Location	
84-D	RFI-84-06R	Groundwater Elevation Monitoring Location	
84-D	RFI-84-06RD	Groundwater Elevation Monitoring Location	
84-D	RFI-84-07S	Groundwater Elevation Monitoring Location	
84-D	RFI-84-09D	Groundwater Elevation Monitoring Location	
84-D	RFI-84-09S	Groundwater Elevation Monitoring Location	
84-D	RFI-84-11S	Groundwater Elevation Monitoring Location	
84-D	RFI-84-12	Groundwater Elevation Monitoring Location	
84-D	RFI-84-8S	Groundwater Elevation Monitoring Location	
84-D	RFI-40-11	Groundwater Elevation Monitoring Location	

Table 3. Groundwater and LNAPL Elevation Monitoring Locations - Southend, 2011 CMI Annual Report RACER Trust, NAO Flint Operations Site, Flint, Michigan

Area of Interest (AOI)	Monitoring Location	Monitoring Program	Comments
86-1	RFI-02-08R	Groundwater Elevation Monitoring Location	
86-1	RFI-86-01R	Groundwater Elevation Monitoring Location	
94-B	RFI-94-08	Groundwater Elevation Monitoring Location	
94-B	RFI-94-11	Groundwater Elevation Monitoring Location	
94-B	94-100	Groundwater Elevation Monitoring Location	
94-D	RFI-94-05	Groundwater Elevation Monitoring Location	
94-D	RFI-02-22	Groundwater Elevation Monitoring Location	
BD01	BD01-01	Groundwater Elevation Monitoring Location	
BD01	BD01-02R	Groundwater Elevation Monitoring Location	
BD01	BD01-04	Groundwater Elevation Monitoring Location	
Harriet Street	ACSP-B2AR	Groundwater Elevation Monitoring Location	

Note:
Measurements will be collected on an annual basis.

Table 4. Groundwater Qualtiy Monitoring Locations, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Area of Interest (AOI)	Sampling Location	Groundwater Analytical Parameters	Sampling Rationale	Comments
North of Leith Street				
7-03	07-01	VOCs	Sentinel location downgradient of LNAPL plume.	NA
10-2	RFI-10-24	VOCs	Off-site; sentinel location at downgradient edge of VOC impacted area	NA
10-2	RFI-10-29	VOCs	Off-site; sentinel location at downgradient edge of VOC impacted area	NA
10-2	RFI-10-33	VOCs	Off-site; sentinel location at downgradient edge of VOC impacted area	NA
10-2	RFI-10-35	VOCs	Off-site; sentinel location at downgradient edge of VOC impacted area	NA
10-2	RFI-10-36	VOCs	Off-site; sentinel location at downgradient edge of VOC impacted area	Could not be sampled due to the presence of a large debris pile.
10-3	20-500R	VOCs	Plume fringe well located at downgradient edge of VOC impacted area	NA
10-3	RFI-10-28	VOCs	Off-site; sentinel location at downgradient edge of VOC impacted area	Neither RFI-10-28 or RFI-10-15 could be sampled due to the presence of a large debris pile.
10-4	20-FP10R	VOCs	Plume fringe well located at downgradient edge of VOC impacted area	NA
10-4	RFI-10-26	VOCs. 2011 ONLY -Arsenic, lead, and Manganese.	Sentinel location at downgradient edge of VOC, arsenic, manganese and lead impacted area	NA
36-1	RFI-36-04	VOCs. 2011 ONLY - Arsenic	Monitoring VOCs and arsenic downgradient of LNAPL plume.	NA
36-1	RFI-36-19	VOCs	Off-site; sentinel location at downgradient edge of VOC impacted area	NA
36-1	RFI-36-37	VOCs	Off-site; plume fringe location at downgradient edge of VOC impacted area	Unable to access due to non-finalized access agreement.
36-1	RFI-36-47	VOCs	Off-site; Plume fringe location at downgradient edge of VOC impacted area	Unable to access due to non-finalized access agreement.
36-1	RFI-36-48	VOCs	Off-site; Plume fringe location at downgradient edge of VOC impacted area	NA
36-1	RFI-36-55R	VOCs	Off-site; sentinel location at downgradient edge of VOC impacted area	NA
36-1	RFI-36-56	VOCs	Off-site; sentinel location at downgradient edge of VOC impacted area.	NA
36-1	36-FP2	2011 ONLY - Inorganics	Plume fringe well; to assess inorganic concentrations at the property boundary - 2011 ONLY	NA
36-1	RFI-36-03	2011 ONLY - Inorganics	Plume fringe well; to assess inorganic concentrations at the property boundary - 2011 ONLY	NA
36-1	RFI-36-20	VOCs	Off-site; sentinel location at downgradient edge of VOC impacted area	Could not be sampled due to a blockage.
36-5	RFI-36-14	VOCs	Sentinel location downgradient of LNAPL plume	NA
81-2	70-165	VOCs	Sentinel location downgradient of LNAPL plume	NA
81-2	70-164	VOCS	Sentinel location downgradient of LNAPL plume	Unable to access due to non-finalized access agreement.
81-2	RFI-81-50	Lead	Sentinel location downgradient of lead exceedance	NA
81-3	RFI-81-51	VOCs	Plume fringe monitoring location at downgradient edge of VOC plume	NA
86-1	RFI-86-16R	VOCs	Sentinel location at downgradient edge of VOC impacted area	NA
86-1	RFI-86-01R	VOCs, lead, and manganese	Sentinel location at downgradient edge of VOC and inorganic impacted area	NA

Table 4. Groundwater Qualtiy Monitoring Locations, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Area of Interest (AOI)	Sampling Location	Groundwater Analytical Parameters	Sampling Rationale	Comments
South of Leith Street				
02-E	RFI-02-05	VOCs	Sentinel location at downgradient edge of VOC impacted area	NA
04-D	04-4	Cyanide	Sentinel location upgradient of storm sewer	NA
04-D	04-3	Cyanide	Sentinel location upgradient of storm sewer	NA
09-A	RFI-09-04R	VOCs	Plume well; monitoring TCE to confirm stable concentrations.	NA
09-A	RFI-09-53	VOCs	Plume well; monitoring to confirm stable concentrations of VOCs.	NA
09-A	MW-26	VOCs	Off-site; sentinel location to confirm VOC plume has not migrated	Unable to access due to non-finalized access agreement.
09-B	RFI-09-14	VOCs	Off-site; sentinel location at downgradient edge of VOC impacted area	Unable to access due to non-finalized access agreement.
09-B	RFI-09-48	VOCs And Cyanide	Sentinel location at downgradient of VOC and cyanide impacted areas	NA
09-B	RFI-09-46	VOCs	Plume well; monitoring benzene concentrations to confirm stable concentrations	NA
12-A	RFI-12-42	VOCs	Sentinel location downgradient of VOC impacted area	NA
17-A	RFI-17-02	VOCs and selenium	Plume well located at downgradient edge of VOC impacted area and GSI monitoring point	NA
40-D	40-304	VOCs and PCBs	Sentinel location downgradient of building 40 Tunnel (PCBs required by 9/13/2005 EPA letter)	NA
44-A	RFI-44-05	Cyanide	Sentinel location upgradient of storm sewer	NA
84-A	MW-23	VOCs	Off-site; downgradient of VOC impacted area	Unable to access due to non-finalized access agreement.
84-D	RFI-17-02D	VOCs and selenium	Plume well; monitoring vinyl chloride to confirm stable concentrations and GSI monitoring point	NA
84-D	RFI-84-06R	Cyanide and Silver	Plume monitoring location	NA
84-D	RFI-84-06RD	Cyanide	Plume monitoring location	NA
84-D	RFI-84-09D	VOCs	Sentinel location at downgradient edge of VOC impacted area	NA
84-D	RFI-84-09S	VOCs	Sentinel location at downgradient edge of VOC impacted area	NA
84-D	RFI-84-11S	VOCs	Sentinel location at downgradient edge of VOC impacted area	NA
84-D	RFI-84-12	VOCs and selenium	Sentinel location at downgradient edge of VOC impacted area and GSI monitoring point	NA
94-B	RFI-94-11	VOCs	Off-site; sentinel location at downgradient edge of VOC impacted area	NA
94-D	RFI-02-22	VOCs	Sentinel locations, downgradient of LNAPL plumes	NA

Note:
VOCs = Volatile Organic Compounds.
LNAPL = light non-aqueous phase liquid.

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Well ID	Reference Point Elevation (feet)[1]	LNAPL Density (extrapolated or measured)	Depth to LNAPL (feet)	Depth to Groundwater (feet)	LNAPL Thickness (feet)	Groundwater Elevation (ft amsl)	Groundwater Elevation Corrected for LNAPL (ft amsl)[2]
October 18 - 28, 2011							
11-6-2	NA	--	UNABLE TO LOCATE				
04-1	731.03	--	NP	3.71		727.32	
04-3	730.19	--	NP	7.55		722.64	
04-4	730.12	--	NP	7.28		722.84	
07-01	732.41	--	NP	8.42		723.99	
03-105R3	747.76	--	NP	9.98		737.78	
03-03R	746.47	0.90	POTENTIAL BLOCKAGE IN WELL				
04-120	750.52	--	WELL NOT FOUND WITH GPS				
04-140	751.06	--	WELL NOT FOUND WITH GPS				
04-160	729.13	--	NP	12.67		716.46	
20-144	749.90	--	NP	7.75		742.15	
20-145	749.34	--	POTENTIAL BLOCKAGE IN WELL				
20-160	752.81	0.99	NOT ACCESSIBLE IN DEMO AREA				
20-162	753.48	0.99	NOT ACCESSIBLE IN DEMO AREA				
20-163R	750.58	0.99	9.18	11.43	2.25		741.38
20-168	753.44	0.99	NOT ACCESSIBLE IN DEMO AREA				
20-500R	750.77	--	NP	8.03		742.74	
20-502	751.29	0.99	8.65	11.85	3.20		742.61
20-503	751.54	0.99	10.01	10.33	0.32		741.53
20-506	751.35	--	NP	9.31		742.04	
20-FP-10R	746.87	--	NP	6.59		740.28	
20-FP12	742.51	--	NP	3.00		739.51	
20-FP-8	748.73	0.99	7.90	9.63	1.73		740.81
20-FP9	749.45	--	NP	8.30		741.15	
31-1	735.19	--	NP	8.58		726.61	
31-3	734.44	--	NP	9.18		725.26	
31-4D	733.87	0.75	NP	6.40		727.47	
31-4S	733.90	--	NP	6.62		727.28	
31-5	736.12	--	NP	10.42		725.70	
31-7	729.75	0.75	7.23	8.37	1.14		722.24
31-8	730.26	0.75	9.04	9.05	0.01		721.22
36-FP1	750.60	--	NP	10.48		740.12	
36 FP2	750.30	0.90	10.50	11.72	1.22		739.68
36 FP3	749.41	0.90	WELL BURIED UNDER GRAVEL				
36 FP4	753.70	0.90	NP	13.52		740.18	
36-FP5*	753.84	--	NP	7.72		746.12	
36 FP6	749.51	0.90	WELL BURIED UNDER GRAVEL				
36 FP7	750.02	0.90	9.79	14.80	5.01		739.73
36 FP8	748.83	--	WELL NOT FOUND WITH GPS				
36-100*	750.54	--	NP	11.28		739.26	
36-101	750.11	--	NP	12.50		737.61	
36-120*	754.47	--	NP	11.61		742.86	
36-121	753.79	--	WELL NOT FOUND WITH GPS				
37-RW-NORTH	752.09	0.90	9.60	10.00	0.40		742.45
37-RW-SOUTH	752.03	0.90	9.60	10.00	0.40		742.39
38-120	754.47	--	NP	12.88		741.59	
40-07R2	735.37	0.92	12.47	14.86	2.39		722.71
40-3	737.01	0.92	NP	13.83		723.18	
40-303R	730.41	0.92	NP	11.68		718.73	
40-304	731.11	0.92	3.39	3.40	0.01		727.72
40-305	731.24	0.92	NP	4.81		726.43	
40-6R	735.00	--	NP	5.87		729.13	
43-103	752.10	--	NP	8.51		743.59	
43-140	750.14	--	NP	9.82		740.32	
43-141	752.78	--	WELL NOT FOUND WITH GPS				
43-161	750.19	0.92	WELL COVERED BY DEBRIS				
43-165	749.41	0.92	6.70	8.02	1.32		742.60
43-166	747.97	--	NP	6.71		741.26	
43-167	748.43	--	NP	7.11		741.32	
43-242	753.64	--	WELL COVERED BY DEBRIS				
55-1	753.43	--	NP	11.30		742.13	
55-2	753.06	--	NP	10.50		742.56	
70-100	742.36	--	NP	5.84		736.52	
70-101	742.68	0.91	4.30	5.52	1.22		738.27
70-103	743.78	0.91	4.12	5.30	1.18		739.55
70-105	743.58	--	NP	5.37		738.21	
70-107	742.58	--	NP	6.62		735.96	
70-107R	742.80	0.91	5.12	7.29	2.17		737.48
70-108R	743.64	--	NP	4.97		738.67	
70-109	741.60	--	NP	3.33		738.27	
70-163	742.59	--	COULD NOT ACCESS				
70-164	742.37	--	COULD NOT ACCESS				
70-165	741.26	--	NP	4.55		736.71	
84-6R2-D	726.80	--	NP	5.11		721.69	
84-7-D	727.42	--	NP	6.78		720.64	
87-FP1	715.79	--	NP	1.85		713.94	
87-FPD2	742.05	--	NP	15.70		726.35	
87-FPD3	742.05	--	NP	25.03		717.02	
88-7	742.20	--	NP	5.98		736.22	
94-100	720.36	--	NP	7.67		712.69	
ACSP-B2AR	738.66	--	NP	25.00		713.66	
BD01-01	744.29	--	NP	23.51		720.78	

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October 18 - 28, 2011							
BD-01-02R	736.67	--	NP	12.3		724.37	
BD01-04	736.33	--	NP	15.22		721.11	
GM-1	724.64	--	UNABLE TO ACCESS				
GM-2	725.40	--	UNABLE TO ACCESS				
GM-3	725.54	--	NP	12.89		712.65	
GM-4	738.12	--	NP	24.80		713.32	
GM-5	737.05	--	NP	23.70		713.35	
GM-6	734.96	--	NP	21.70		713.26	
GM-7	739.81	--	NP	25.90		713.91	
GM-8	738.71	--	NP	22.21		716.50	
GM-9	724.39	--	NP	11.71		712.68	
GM-10	725.79	--	NP	13.10		712.69	
GM-12	738.62	--	NP	22.10		716.52	
MW-00-FP6	740.73	--	NP	16.52		724.21	
MW-16	713.53	--	COULD NOT ACCESS				
MW-17	714.54	--	COULD NOT ACCESS				
MW-18	714.33	--	COULD NOT ACCESS				
MW-19	712.00	--	COULD NOT ACCESS				
MW-23	719.89	--	COULD NOT ACCESS				
MW-25	722.38	--	COULD NOT ACCESS				
MW-26	722.18	--	COULD NOT ACCESS				
OW-3S	738.34	--	NP	12.50		725.84	
OW-5	725.32	--	NP	7.82		717.50	
RFI-02-05R	738.65	--	NP	4.25		734.40	
RFI-02-07	735.06	--	BURIED DUE TO DEMOLITION ACTIVITIES				
RFI-02-08R	736.07	--	NP	8.22		727.85	
RFI-02-12	738.51	0.95	NP	5.91		732.60	
RFI-02-13	731.00	--	COULD NOT ACCESS				
RFI-02-14	738.73	0.95	5.18	11.32	6.14		733.24
RFI-02-15	738.74	0.95	5.51	9.62	4.11		733.02
RFI-02-16	738.66	0.95	5.33	5.34	0.01		733.33
RFI-02-17	738.67	0.95	NP	5.61		733.06	
RFI-02-18	738.69	0.95	NP	5.58		733.11	
RFI-02-19	738.54	0.95	5.85	7.85	2.00		732.59
RFI-02-22	729.77	0.95	NP	1.06		728.71	
RFI-02-23	738.57	0.95	5.45	5.46	0.01		733.12
RFI-02-24	729.88	--	COULD NOT ACCESS				
RFI-03-02	742.35	--	WELL UNDER DEBRIS				
RFI-03-03	742.01	--	NP	3.02		738.99	
RFI-03-04	746.67	--	NP	6.27		740.40	
RFI-05-06	752.13	--	NP	11.22		740.91	
RFI-05-08R	755.78	--	NP	12.72		743.06	
RFI-05-13	754.16	0.92	WELL COVERED BY DEBRIS				
RFI-05-14	754.12	0.92	WELL COVERED BY DEBRIS				
RFI-07-03	726.74	--	COULD NOT LOCATE				
RFI-07-08	728.12	--	NP	12.33		715.79	
RFI-09-04R	725.95	--	NP	15.00		710.95	
RFI-09-14	724.44	--	COULD NOT ACCESS				
RFI-09-40R	729.76	0.75	7.03	9.37	2.34		722.15
RFI-09-44	728.22	--	NP	5.81		722.41	
RFI-09-45R	729.76	--	NP	6.71		723.05	
RFI-09-46	723.07	--	NP	9.09		713.98	
RFI-09-47	730.02	0.75	6.85	8.87	2.02		722.67
RFI-09-48	719.69	--	NP	12.03		707.66	
RFI-09-49R	726.43	--	NP	14.80		711.63	
RFI-09-52	730.21	--	NP	8.12		722.09	
RFI-09-53	725.48	--	NP	9.33		716.15	
RFI-09-56	726.93	--	NP	5.79		721.14	
RFI-09-57	724.90	--	NP	6.00		718.90	
RFI-09-58	723.38	--	COULD NOT ACCESS				
RFI-10-07	751.33	--	NP	8.65		742.68	
RFI-10-15 (alternate for RFI-10-28)	751.25	--	WELL COVERED BY DEBRIS				
RFI-10-24	751.53	--	NP	10.75		740.78	
RFI-10-26	749.32	--	NP	7.63		741.69	
RFI-10-28	752.58	--	DAMAGED				
RFI-10-29	752.40	--	NP	12.84		739.56	
RFI-10-33	755.30	--	NP	12.91		742.39	
RFI-10-35	755.69	--	NP	14.92		740.77	
RFI-10-36	752.82	--	WELL COVERED BY DEBRIS				
RFI-12-01R	741.98	0.93	NP	5.75		736.23	
RFI-12-02/02R	742.10	0.93	4.51	9.86	5.35		737.22
RFI-12-07R2	741.95	0.93	NP	4.33		737.62	
RFI-12-08R	736.07	0.93	9.22	10.11	0.89		726.79
RFI-12-09R	741.97	0.93	4.55	6.89	2.34		737.26
RFI-12-11D	742.09	0.93	7.85	13.67	5.82		733.83
RFI-12-11S	742.17	0.93	NP	4.67		737.50	
RFI-12-14R	742.20	0.93	NP	5.00		737.20	
RFI-12-15	742.13	0.93	NP	5.59		736.54	
RFI-12-21	741.50	--	WELL NOT FOUND WITH GPS				
RFI-12-22R	742.07	0.93	NP	5.10		736.97	
RFI-12-23	742.21	0.93	8.38	11.69	3.31		733.60

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October 18 - 28, 2011							
RFI-12-24	742.12	--	NP	4.61		737.51	
RFI-12-25	741.85	--	NP	5.09		736.76	
RFI-12-26	742.04	0.93	NP	5.09		736.95	
RFI-12-27	737.91	0.93	NP	0.00		737.91	
RFI-12-33	743.66	--	NP	6.25		737.41	
RFI-12-34	744.02	--	NP	6.71		737.31	
RFI-12-35	743.83	0.93	5.55	6.97	1.42		738.18
RFI-12-36	734.89	--	WELL NOT FOUND WITH GPS				
RFI-12-38	742.39	0.93	5.30	5.35	0.05		737.09
RFI-12-40	741.47	--	NP	5.45		736.02	
RFI-12-41	741.56	--	NP	3.22		738.34	
RFI-12-42	741.66		NP	2.00		739.66	
RFI-16-01	736.10	0.86	NP	8.24		727.86	
RFI-16-04R	732.12	0.86	8.10	8.11	0.01		724.02
RFI-16-07	733.26	--	WELL NOT FOUND WITH GPS				
RFI-16-08	733.24	0.86	7.72	8.19	0.47		725.45
RFI-16-09	733.39	0.86	NP	7.37		726.02	
RFI-16-10	736.09	0.86	9.87	10.15	0.28		726.18
RFI-16-12	735.58	0.86	NP	8.43		727.15	
RFI-16-20	732.35	0.86	NP	8.96		723.39	
RFI-16-24	736.39	0.86	9.72	9.73	0.01		726.67
RFI-17-02	720.27	--	NP	5.30		714.97	
RFI-17-02D	720.36	--	NP	4.72		715.64	
RFI-23-02R	740.08	--	NP	2.99		737.09	
RFI-36-01*	756.63	--	NP	16.60		740.03	
RFI-36-02*	751.96	--	NP	13.21		738.75	
RFI-36-03	751.31	--	NP	11.59		739.72	
RFI-36-04	756.14	0.83	NP	16.30		739.84	
RFI-36-05	755.07	0.83	NP	15.34		739.73	
RFI-36-06	755.29	0.83	14.85	17.35	2.50		740.02
RFI-36-07	753.99	0.83	11.17	11.64	0.47		742.74
RFI-36-08*	749.29	--	NP	6.20		743.09	
RFI-36-09*	750.78	--	NP	7.52		743.26	
RFI-36-11*	752.89	--	NP	10.03		742.86	
RFI-36-12	753.52	0.83	NP	9.29		744.23	
RFI-36-13	751.81	--	NP	9.50		742.31	
RFI-36-14	750.00	--	NP	7.26		742.74	
RFI-36-19	753.31	--	NP	13.88		739.43	
RFI-36-20	757.01	--	POTENTIAL BLOCKAGE IN WELL				
RFI-36-23*	754.20	0.83	10.81	15.90	5.09		742.52
RFI-36-25R	754.67	--	POTENTIAL BLOCKAGE IN WELL				
RFI-36-27	NA	--	COULD NOT LOCATE				
RFI-36-29R	753.72	0.83	11.62	19.70	8.08		740.73
RFI-36-35*	750.05	--	NP	11.22		738.83	
RFI-36-37	757.15	--	COULD NOT ACCESS				
RFI-36-43*	753.26	--	NP	10.52		742.74	
RFI-36-46	750.13	--	NP	11.35		738.78	
RFI-36-47	749.26	--	COULD NOT ACCESS				
RFI-36-48	757.71	--	NP	20.60		737.11	
RFI-36-55R	750.50	--	NP	12.76		737.74	
RFI-36-56	749.97	--	NP	11.73		738.24	
RFI-38-04	751.58	--	NP	17.45		734.13	
RFI-38-05	750.79	--	WELL BURIED UNDER GRAVEL				
RFI-38-06*	749.43	--	NP	13.15		736.28	
RFI-40-01R2	734.05	--	WELL NOT FOUND WITH GPS				
RFI-40-02R	735.34	0.92	7.83	10.72	2.89		727.28
RFI-40-03	735.33	0.92	NP	8.31		727.02	
RFI-40-04	728.15	--	NP	10.49		717.66	
RFI-40-07	729.35	0.92	NP	3.00		726.35	
RFI-40-09	731.85	--	NP	9.65		722.20	
RFI-40-10R	735.17	0.92	NP	7.42		727.75	
RFI-40-11	731.22	--	COULD NOT ACCESS				
RFI-40-12R	743.12	0.92	5.92	9.65	3.73		736.90
RFI-40-13	731.92	--	COULD NOT ACCESS				
RFI-40-14R	731.98	--	NP	14.66		717.32	
RFI-40-15	732.18	--	COULD NOT ACCESS				
RFI-40-20	738.47	0.92	NP	7.19		731.28	
RFI-40-25	NA	--	COULD NOT LOCATE				
RFI-40-26	738.37	0.92	9.59	9.60	0.01		728.78
RFI-44-05	731.97	--	NP	8.09		723.88	
RFI-55-01	751.85	--	NP	8.23		743.62	
RFI-55-02	752.88	--	NP	10.03		742.85	
RFI-55-12	752.26	--	POTENTIAL BLOCKAGE IN WELL				
RFI-81-02	745.92	--	NOT ACCESSIBLE, IN DEMO AREA				
RFI-81-03	745.70	--	NP	13.99		731.71	
RFI-81-07	NA	--	NP	6.35		NA	
RFI-81-08	741.43	--	NP	9.79		731.64	
RFI-81-13	744.61		NP	11.08		733.53	
RFI-81-21	753.80	--	NP	14.65		739.15	
RFI-81-33	736.94	--	NP	6.59		730.35	
RFI-81-35	743.23	--	NOT ACCESSIBLE, IN DEMO AREA				
RFI-81-43	743.76	--	NP	6.64		737.12	

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October 18 - 28, 2011							
RFI-81-45	742.87	--	NP	5.15		737.72	
RFI-81-47	742.38		NP	7.31		735.07	
RFI-81-49	742.71	--	NP	10.90		731.81	
RFI-81-50	740.60	--	NP	4.47		736.13	
RFI-81-51	742.35	--	NP	12.92		729.43	
RFI-83/84-01	741.34	--	NP	3.13		738.21	
RFI-83/84-03	NA	--	WELL NOT FOUND WITH GPS				
RFI-83/84-04	745.51	0.88	8.13	8.40	0.27		737.35
RFI-83/84-06	745.58	0.88	9.21	12.70	3.49		735.95
RFI-83/84-07	746.56	0.88	9.58	12.11	2.53		736.67
RFI-83/84-11	741.61	--	DAMAGED				
RFI-83/84-27	745.84	0.90	9.64	11.72	2.08		735.99
RFI-83/84-29	742.76	--	NP	12.93		729.83	
RFI-83/84-49	745.25	0.88	9.73	11.67	1.94		735.28
RFI-83/84-53	745.63	0.88	8.65	9.23	0.58		736.91
RFI-83/84-54	746.41	--	NP	8.49		737.92	
RFI-84-03S	727.23	--	NP	9.74		717.49	
RFI-84-04D	727.08	0.92	9.51	9.52	0.01		717.57
RFI-84-04I	727.23	--	NP	9.65		717.58	
RFI-84-05	726.63	--	NP	6.19		720.44	
RFI-84-06R	720.12	--	NP	5.94		714.18	
RFI-84-06RD	720.18	--	NP	7.43		712.75	
RFI-84-07S	727.12	--	NP	7.97		719.15	
RFI-84-8S	727.22	--	NP	9.72		717.50	
RFI-84-09D	719.27	--	NP	9.95		709.32	
RFI-84-09S	719.43	--	NP	10.39		709.04	
RFI-84-11S	721.97	--	NP	3.90		718.07	
RFI-84-12	NA	--	NP	8.83		NA	
RFI-85-02R	742.91	0.86	NOT ACCESSIBLE, IN DEMO AREA				
RFI-85-04R	745.95	--	NP	18.60		727.35	
RFI-85-05	745.95	--	NP	20.90		725.05	
RFI-86-01R	735.51	--	NP	7.13		728.38	
RFI-86-02	735.65	0.87	8.13	8.80	0.67		727.43
RFI-86-03	736.62	0.87	7.60	7.63	0.03		729.02
RFI-86-06D	737.21	--	NP	22.25		714.96	
RFI-86-06S	737.32	--	NP	12.10		725.22	
RFI-86-08R	743.25	0.87	11.48	11.49	0.01		731.77
RFI-86-14	731.74	--	POTENTIAL BLOCKAGE IN WELL				
RFI-86-16R	731.76	--	NP	16.22		715.54	
RFI-94-05	727.48	--	NP	3.05		724.43	
RFI-94-08	727.44	--	NP	14.66		712.78	
RFI-94-11	719.54	--	NP	8.75		710.79	
RW-05 North	NA	0.89	12.31	13.10	0.79	NA	
RW-1	749.92	0.92	10.02	10.52	0.50		739.86
RW-3	749.46		NP	9.18		740.28	

Notes:

1. Groundwater elevation relative to the National Geodetic Vertical Datum (NGVD) of 1929.

2 - The equivalent groundwater (GW) elevation is calculated where LNAPL is present using the LNAPL surface elevation, the thickness of LNAPL and the approximate specific density of the LNAPL. The calculation is as follows:

Equivalent GW elevation = LNAPL surface elevation - ((1-specific density of the LNAPL) x LNAPL thickness)

GPS - Global positioning system
NA = Not available.
-- = Not applicable.
*Depth to water measurements were collected for selected wells within the Factory 36 area that previously were not accessible due to demolition activities.
ft amsl - feet above mean seal level

Table 6. Groundwater Sampling Event Field Parameter Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Well ID	Date Sampled	Temperature (ºC)	pH (SU)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTUs)	Oxidation Reduction Potential (mV)
04-03	10/21/2011	16.70	7.04	3.840	0.39	2.78	-113.8
04-4	10/21/2011	16.00	6.86	1.090	3.01	2.19	87.2
7-01	10/24/2011	15.50	7.11	0.890	1.63	1.90	-87.6
20-FP10R	10/24/2011	17.70	7.20	2.880	0.15	4.61	-143.3
36-FP1	10/27/2011	14.30	6.77	0.420	0.56	2.06	-95.1
40-304	10/25/2011	16.00	7.32	0.257	0.16	5.15	-147.8
70-165	10/24/2011	16.02	6.61	1.026	2.34	6.23	106.2
RFI-02-05R	10/27/2011	13.40	6.93	0.350	0.21	3.43	-123.7
RFI-02-22	10/25/2011	17.50	7.97	1.200	0.70	5	-114.6
RFI-09-04R	10/20/2011	13.40	6.83	0.830	1.44	NS	102.7
RFI-09-46	10/25/2011	13.30	6.96	0.490	0.11	0.73	-143.6
RFI-09-48	10/25/2011	14.30	6.83	0.480	0.14	0.83	-108.4
RFI-09-53	10/20/2011	14.30	6.80	0.560	0.12	2.02	23.6
RFI-10-24	10/24/2011	13.20	6.65	1.310	1.49	3.03	88
RFI-10-26	10/24/2011	15.90	6.63	1.180	4.53	3.89	86.5
RFI-10-29	10/24/2011	14.00	6.73	1.050	0.23	3.45	-86.2
RFI-10-33	10/24/2011	14.60	6.81	0.33	0.88	2.0	-40
RFI-10-35	10/24/2011	14.40	6.64	0.522	1.33	0.6	10.0
RFI-12-42	10/27/2011	16.20	7.71	0.300	0.04	3.24	-232.5
RFI-17-02	10/21/2011	16.70	6.64	0.51	1.21	1.1	107
RFI-17-02D	10/21/2011	15.70	7.21	6.720	0.80	0.72	-140.4
RFI-36-04	10/27/2011	13.10	6.82	0.420	0.19	1.59	-111.0
RFI-36-14	10/27/2011	15.40	6.73	0.41	1.78	1.52	85.5
RFI-36-19	10/25/2011	14.50	67.40	0.360	4.90	0.47	103.7
RFI-36-48	10/26/2011	11.80	6.68	0.333	3.60	0.34	34.0
RFI-36-55R	10/27/2011	11.10	6.83	0.45	0.14	2.48	-61.7
RFI-36-56	10/24/2011	12.80	7.14	1.070	1.55	0.93	21.7
RFI-44-05	10/21/2011	14.90	6.89	0.790	2.76	1.72	66.4
RFI-56-03	10/27/2011	14.70	6.85	0.410	0.98	1.53	46.0
RFI-81-50	10/24/2011	15.50	7.23	0.394	4.14	1.17	79.7
RFI-81-51	10/24/2011	17.1	6.99	11.20	3.820	1.59	-19.80
RFI-84-06D	10/21/2011	15.30	7.18	5.230	0.24	4.58	-30.5
RFI-84-06R	10/21/2011	15.80	7.94	1.440	0.61	4.80	-74.3
RFI-84-095	10/21/2011	17.30	7.07	1.350	0.52	5.71	132.6
RFI-84-09D	10/21/2011	14.80	7.24	1.500	0.23	4.96	-86.3
RFI-84-115	10/21/2011	14.60	6.79	0.630	1.76	0.63	-41.2
RFI-84-12	10/21/2011	14.90	7.21	1.090	0.52	4.90	-109.1
RFI-86-01R	10/25/2011	16.40	7.06	0.350	5.64	1.09	90.4
RFI-86-16R	10/24/2011	14.80	6.89	0.478	0.30	12.20	-79.3
RFI-94-10	10/25/2011	17.30	6.55	0.583	1.35	1.33	45

Notes:
ºC = Celsius.
mg/L = milligrams per liter.
mV = millivolts.
NTUs = Nephelometric Turbidity Units.
SU = Standard Units.
mS/cm = milliSiemens per centimeter.
NS = not sampled.

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	04-3 09/17/01	04-3 10/26/10	04-3 10/21/11	04-4 09/17/01	04-4 03/27/03	04-4 10/28/10	04-4 10/21/11	07-01 09/20/01	07-01 10/15/10	07-01 10/24/11	20-500R 11/02/06	20-500R 10/26/07	20-500R 09/15/08	20-500R 09/23/09	20-500R 10/14/10
VOC																								
1,1,1,2-Tetrachloroethane	mg/L	ID	ID	30	ID	0.32	96	0.077	15	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	0.005 U
1,1,1-Trichloroethane	mg/L	ID	1,300 (S)	1,300 (S)	0.089	0.2 (A)	1,300 (S)	0.2 (A)	660	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.00096 J	0.004	0.005	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U
1,1,2,2-Tetrachloroethane	mg/L	ID	ID	4.7	0.078 (X)	0.035	77	0.0085	12	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/L	ID	170 (S)	170 (S)	0.032	170 (S)	170 (S)	170 (S)	170 (S)	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	NA	0.03 U	0.2 U	0.03 U	0.03 U	0.03 U	NA
1,1,2-Trichloroethane	mg/L	NA	ID	21	0.33 (X)	0.005 (A)	110	0.005 (A)	17	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U
1,1-Dichloroethane	mg/L	380	ID	2,400	0.74	2.5	2,300	0.88	1,000	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.0039	0.006	0.007	0.005 U	0.001 U	0.001 U	0.0002	0.005 U
1,1-Dichloroethene	mg/L	97	140	11	0.13	0.007 (A)	1.3	0.007 (A)	0.2	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U
1,2,3-Trichlorobenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	0.03 U
1,2,3-Trichloropropane	mg/L	NA	ID	84	NA	0.12	18	0.042	8.3	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	0.005 U
1,2,3-Trimethylbenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	0.005 U
1,2,4-Trichlorobenzene	mg/L	NA	300 (S)	19	0.099 (X)	0.07 (A)	300 (S)	0.07 (A)	300 (S)	0.005 U	NA	NA	0.005 U	NA	NA	NA	0.005 U	0.005 U	0.002 U	0.01 U	0.002 U	0.002 U	0.002 U	0.03 U
1,2,4-Trimethylbenzene	mg/L	56 (S)	ID	56 (S)	0.017	2.9 (E)	56 (S)	1 (E)	56 (S)	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	0.005 U
1,2-Dibromo-3-chloropropane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.03 U
1,2-Dibromoethane	mg/L	ID	ID	0.025	0.0057 (X)	0.00005 (A)	15	0.00005 (A)	2.4	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U
1,2-Dichlorobenzene	mg/L	NA	160 (S)	160 (S)	0.013	0.6 (A)	160 (S)	0.6 (A)	160 (S)	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U
1,2-Dichloroethane	mg/L	2,500	ID	19	0.36 (X)	0.005 (A)	59	0.005 (A)	9.6	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U
1,2-Dichloropropane	mg/L	550	2,800 (S)	16	0.23 (X)	0.005 (A)	36	0.005 (A)	16	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U
1,3,5-Trimethylbenzene	mg/L	ID	ID	61 (S)	0.045	2.9 (E)	61 (S)	1 (E)	61 (S)	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	0.005 U
1,3-Dichlorobenzene	mg/L	ID	ID	2	0.028	0.019	41	0.0066	18	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U
1,4-Dichlorobenzene	mg/L	NA	ID	6.4	0.017	0.075 (A)	74 (S)	0.075 (A)	16	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U
2-Butanone	mg/L	ID	240,000 (S)	240,000 (S)	2.2	38	240,000 (S)	13	240,000 (S)	0.025 U	NA	NA	0.025 U	NA	NA	NA	0.025 U	0.03 U	0.02 U	0.1 UJ	0.02 U	0.02 U	0.02 U	0.1 U
2-Hexanone	mg/L	NA	ID	5,200	ID	2.9	8,700	1	4,200	0.05 U	NA	NA	0.05 U	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.3 UJ	0.05 U	0.05 UJ	0.05 U	0.3 U
2-Methylnaphthalene	mg/L	ID	ID	25 (S)	0.019	0.75	25 (S)	0.26	25 (S)	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	0.03 U
4-Methyl-2-pentanone	mg/L	ID	20,000 (S)	13,000	ID	5.2	20,000 (S)	1.8	20,000 (S)	0.05 U	NA	NA	0.05 U	NA	NA	NA	0.05 U	0.05 U	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U	0.3 U
Acetone	mg/L	15,000	1,000,000 (D)	31,000	1.7	2.1	1,000,000 (D,S)	0.73	1,000,000 (D,S)	0.025 U	NA	NA	0.025 U	NA	NA	NA	0.025 U	0.05 U	0.04	0.1 UJ	0.02 U	0.02 U	0.02 U	0.3 U
Acrylonitrile	mg/L	6,400	ID	14	0.002 (M)	0.011	190	0.0026	34	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	0.01 U
Benzene	mg/L	68	67	11	0.2 (X)	0.005 (A)	35	0.005 (A)	5.6	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	**0.025 (NDW,RDW)**	**0.065 (NDW,RDW)**	0.0004 J	0.0006	0.005 U
Bromobenzene	mg/L	ID	ID	12	NA	0.05	390	0.018	180	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	0.005 U
Bromochloromethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	0.005 U
Bromodichloromethane	mg/L	ID	ID	14	ID	0.08 (A,W)	37	0.08 (A,W)	4.8	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U
Bromoform	mg/L	ID	ID	140	ID	0.08 (A,W)	3,100 (S)	0.08 (A,W)	470	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U
Bromomethane	mg/L	ID	ID	70	0.035	0.029	9	0.01	4	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 UJ	0.005 U	0.002 U	0.01 U	0.002 U	0.002 U	0.002 U	0.03 U
Carbon Disulfide	mg/L	13	ID	1,200 (S)	ID	2.3	550	0.8	250	0.005 U	NA	NA	0.005 U	NA	NA	NA	0.005 U	0.005 U	0.005 U	0.03 U	0.005 U	0.005 U	0.005 U	0.03 U
Carbon Tetrachloride	mg/L	ID	96	4.6	0.045 (X)	0.005 (A)	2.4	0.005 (A)	0.37	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U
Chlorobenzene	mg/L	160	ID	86	0.025	0.1 (A)	470 (S)	0.1 (A)	210	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U
Chloroethane	mg/L	110	ID	440	1.1 (X)	1.7	5,700 (S)	0.43	5,700 (S)	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.03 U
Chloroform	mg/L	ID	ID	150	0.35	0.08 (A,W)	180	0.08 (A,W)	28	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U
Chloromethane	mg/L	36	210	490	ID	1.1	45	0.26	8.6	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.03 U
cis-1,2-Dichloroethene	mg/L	530	ID	200	0.62	0.07 (A)	210	0.07 (A)	93	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.007	0.005	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U
cis-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.005 UJ	0.001 U	0.001 U	0.001 U	0.005 U
Cyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.005 U	NA	NA	0.005 U	NA	NA	NA	0.005 U	NA	0.001 U	0.005 U	0.008 U	0.001 UJ	0.001 U	NA
Dibromochloromethane	mg/L	ID	ID	18	ID	0.08 (A,W)	110	0.08 (A,W)	14	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.03 U
Dibromomethane	mg/L	ID	ID	530	NA	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	0.03 U
Dichlorodifluoromethane	mg/L	ID	ID	300 (S)	ID	4.8	300 (S)	1.7	220	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.03 U
Diethyl ether	mg/L	650	61,000 (S)	35,000	ID	10 (E)	61,000 (S)	3.7 (E)	61,000 (S)	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	0.05 U
Ethylbenzene	mg/L	43	170 (S)	170 (S)	0.018	0.7 (E)	170 (S)	0.7 (E)	110	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.429	0.131	0.004	0.001 U	0.012
Hexachloroethane	mg/L	ID	ID	1.9	0.0067 (X)	0.021	50 (S)	0.0073	27	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	0.03 U
Iodomethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	0.005 U
Isopropylbenzene	mg/L	29	ID	56 (S)	0.028	2.3	56 (S)	0.8	56 (S)	0.005 U	NA	NA	0.005 U	NA	NA	NA	0.005 U	0.005 U	0.001 U	0.326	0.252	0.008	0.006	0.08
m&p-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.002 U	NA	NA	0.002 U	NA	NA	NA	0.002 U	0.002 U	0.002 U	0.074	0.014	0.001 U	0.001 U	0.01 U
Methyl acetate	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.005 U	NA	NA	0.005 U	NA	NA	NA	0.005 U	NA	0.01 U	0.05 U	0.01 U	0.01 U	0.01 U	NA
Methyl tert-butyl ether	mg/L	ID	ID	610	7.1 (X)	0.69 (E)	47,000 (S)	0.24 (E)	47,000 (S)	0.005 U	NA	NA	0.005 U	NA	NA	NA	0.005 U	0.005 U	0.005 U	0.03 U	0.005 U	0.005 U	0.005 U	0.03 U
Methylcyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	NA	0.02 U	0.01 J	0.02 J	0.005 J	0.0007	NA
Methylene Chloride	mg/L	ID	ID	220	1.5 (X)	0.005 (A)	1,400	0.005 (A)	220	0.005 U	NA	NA	0.005 U	NA	NA	NA	0.005 U	0.005 U	0.005 U	0.03 U	0.005 U	0.005 U	0.005 U	0.03 U
Naphthalene	mg/L	NA	31 (S)	31 (S)	0.011	1.5	31 (S)	0.52	31 (S)	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	0.03 U
n-Butylbenzene	mg/L	ID	ID	5.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	0.009
n-Propylbenzene	mg/L	ID	ID	15	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	0.001 U	NA	NA	NA	NA	**0.244 (NDW,RDW)**
o-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.004 J	0.0008 J	0.001 U	0.001 U	0.005 U

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	04-3 09/17/01	04-3 10/26/10	04-3 10/21/11	04-4 09/17/01	04-4 03/27/03	04-4 10/28/10	04-4 10/21/11	07-01 09/20/01	07-01 10/15/10	07-01 10/24/11	20-500R 11/02/06	20-500R 10/26/07	20-500R 09/15/08	20-500R 09/23/09	20-500R 10/14/10
p-Isopropyltoluene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	0.03 U
sec-Butylbenzene	mg/L	ID	ID	4.4	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	0.015
Styrene	mg/L	140	310 (S)	9.7	0.08 (X)	0.1 (A)	310 (S)	0.1 (A)	170	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U
tert-Butylbenzene	mg/L	ID	ID	8.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	0.005 U
Tetrachloroethene	mg/L	ID	200 (S)	12	0.06 (X)	0.005 (A)	170	0.005 (A)	25	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	**0.028 (NDW,RDW)**	**0.033 (NDW,RDW)**	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U
Tetrahydrofuran	mg/L	60	3,600	1,600	11 (X)	0.27	16,000	0.095	6,900	NA	NA	NA	NA	NA	NA	NA	NA	0.09 U	NA	NA	NA	NA	NA	0.5 U
Toluene	mg/L	61	ID	530 (S)	0.27	1 (E)	530 (S)	1 (E)	530 (S)	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.0009 J	0.001 U	0.001 U	0.0001	0.005 U
trans-1,2-Dichloroethene	mg/L	230	ID	220	1.5 (X)	0.1 (A)	200	0.1 (A)	85	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U
trans-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U
trans-1,4-Dichloro-2-butene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	0.005 U
Trichloroethene	mg/L	ID	1,100 (S)	22	0.2 (X)	0.005 (A)	97	0.005 (A)	15	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.003	0.005	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U
Trichlorofluoromethane	mg/L	ID	1,100 (S)	1,100 (S)	NA	7.3	1,100 (S)	2.6	1,100 (S)	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U
Vinyl Chloride	mg/L	33	ID	1	0.013 (X)	0.002 (A)	13	0.002 (A)	1.1	0.001 U	NA	NA	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U
PCB																								
Total PCBs	mg/L	ID	ID	0.0033 (AA)	0.0002 (M	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	0.00012 U	NA	NA	0.00011 U	0.00011 U	NA	NA	0.0001 U	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved																								
Total PCBs (Dissolved)	mg/L	ID	ID	0.0033 (AA)	0.0002 (M)	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	0.00011 U	NA	NA	0.0001 U	NA	NA	NA	0.00011 U	NA	NA	NA	NA	NA	NA	NA
Inorganic																								
Antimony	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 U	0.005 U	0.0020 J	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	0.0002 U	NA	NA	0.0002 U	NA	NA	NA	0.0002 U	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved																								
Antimony (Dissolved)	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	0.0012 U	NA	NA	0.0012 U	NA	NA	NA	0.0012 U	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	0.0010 U	NA	NA	0.0065	NA	NA	NA	0.0010 J	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	0.011	NA	NA	0.017	NA	NA	NA	0.032 J	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	0.00040 U	NA	NA	0.00040 U	NA	NA	NA	0.00040 U	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	0.00020 U	NA	NA	0.00020 U	NA	NA	NA	0.00020 U	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	0.00060 U	NA	NA	0.00060 U	NA	NA	NA	0.00060 U	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	0.00020 U	NA	NA	0.00023	NA	NA	NA	0.00040	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	0.025	NA	NA	0.0054	NA	NA	NA	0.0058	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	0.005 U	NA	NA	0.005 U	NA	NA	NA	0.0021 J	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	0.00040 U	NA	NA	0.00040 U	NA	NA	NA	0.00040 U	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	0.055	NA	NA	0.037	NA	NA	NA	0.26	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	0.0002 U	NA	NA	0.0002 U	NA	NA	NA	0.0002 U	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	0.0044	NA	NA	0.0017	NA	NA	NA	0.0035	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	0.0014 U	NA	NA	0.0028	NA	NA	NA	0.0014 U	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	0.00040 U	NA	NA	0.00040 U	NA	NA	NA	0.00041 J	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	0.00020 U	NA	NA	0.00020 U	NA	NA	NA	0.00020 U	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	0.00080 U	NA	NA	0.0044	NA	NA	NA	0.00080 U	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	0.015	NA	NA	0.026	NA	NA	NA	0.10	NA	NA	NA	NA	NA	NA	NA

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	20-500R 10/20/11	20-FP10R 10/26/07	20-FP10R 09/15/08	20-FP10R 09/23/09	20-FP10R 10/14/10	20-FP10R 10/24/11	36-FP1 09/27/01	36-FP1 06/14/02	36-FP1 03/27/03	36-FP1 06/09/05
VOC																			
1,1,1,2-Tetrachloroethane	mg/L	ID	ID	30	ID	0.32	96	0.077	15	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/L	ID	1,300 (S)	1,300 (S)	0.089	0.2 (A)	1,300 (S)	0.2 (A)	660	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.14 JD [0.15 JD]	0.098 D	**0.24 D (NDW,RDW)**	0.186
1,1,2,2-Tetrachloroethane	mg/L	ID	ID	4.7	0.078 (X)	0.035	77	0.0085	12	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.005 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/L	ID	170 (S)	170 (S)	0.032	170 (S)	170 (S)	170 (S)	170 (S)	0.2 U	0.03 U	0.03 U	0.03 U	NA	0.03 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.2 U
1,1,2-Trichloroethane	mg/L	NA	ID	21	0.33 (X)	0.005 (A)	110	0.005 (A)	17	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.005 U
1,1-Dichloroethane	mg/L	380	ID	2,400	0.74	2.5	2,300	0.88	1,000	0.005 U	0.001 U	0.001 U	0.0005	0.002	0.013	0.31 JD [0.32 JD]	0.11 D	0.5 D	0.401
1,1-Dichloroethene	mg/L	97	140	11	0.13	0.007 (A)	1.3	0.007 (A)	0.2	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0017 J [0.0016 J]	0.0011	0.0056	0.005 U
1,2,3-Trichlorobenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/L	NA	ID	84	NA	0.12	18	0.042	8.3	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/L	NA	300 (S)	19	0.099 (X)	0.07 (A)	300 (S)	0.07 (A)	300 (S)	0.01 U	0.002 U	0.002 U	0.002 U	0.005 U	0.002 U	0.005 UJ [0.005 UJ]	0.005 U	0.005 U	0.01 U
1,2,4-Trimethylbenzene	mg/L	56 (S)	ID	56 (S)	0.017	2.9 (E)	56 (S)	1 (E)	56 (S)	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.005 U
1,2-Dibromoethane	mg/L	ID	ID	0.025	0.0057 (X)	0.00005 (A)	15	0.00005 (A)	2.4	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.005 U
1,2-Dichlorobenzene	mg/L	NA	160 (S)	160 (S)	0.013	0.6 (A)	160 (S)	0.6 (A)	160 (S)	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.005 U
1,2-Dichloroethane	mg/L	2,500	ID	19	0.36 (X)	0.005 (A)	59	0.005 (A)	9.6	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	0.0042	0.004	0.005 U
1,2-Dichloropropane	mg/L	550	2,800 (S)	16	0.23 (X)	0.005 (A)	36	0.005 (A)	16	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.005 U
1,3,5-Trimethylbenzene	mg/L	ID	ID	61 (S)	0.045	2.9 (E)	61 (S)	1 (E)	61 (S)	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ID	ID	2	0.028	0.019	41	0.0066	18	0.005 U	0.001 U	0.001 U	0.0003	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.005 U
1,4-Dichlorobenzene	mg/L	NA	ID	6.4	0.017	0.075 (A)	74 (S)	0.075 (A)	16	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.005 U
2-Butanone	mg/L	ID	240,000 (S)	240,000 (S)	2.2	38	240,000 (S)	13	240,000 (S)	0.1 U	0.02 U	0.02 U	0.02 U	0.03 U	0.02 U	0.0012 J [0.0014 J]	0.025 U	0.025 U	0.1 U
2-Hexanone	mg/L	NA	ID	5,200	ID	2.9	8,700	1	4,200	0.3 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 UJ [0.05 UJ]	0.05 U	0.05 U	0.3 U
2-Methylnaphthalene	mg/L	ID	ID	25 (S)	0.019	0.75	25 (S)	0.26	25 (S)	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	ID	20,000 (S)	13,000	ID	5.2	20,000 (S)	1.8	20,000 (S)	0.05 U	0.01 U	0.01 U	0.01 U	0.05 U	0.01 U	0.05 UJ [0.05 UJ]	0.05 U	0.05 U	0.005 U
Acetone	mg/L	15,000	1,000,000 (D)	31,000	1.7	2.1	1,000,000 (D,S)	0.73	1,000,000 (D,S)	0.1 U	0.02 U	0.02 U	0.002	0.05 U	0.02 U	0.0048 J [0.007 J]	0.025 U	0.025 U	0.1 U
Acrylonitrile	mg/L	6,400	ID	14	0.002 (M)	0.011	190	0.0026	34	NA	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA
Benzene	mg/L	68	67	11	0.2 (X)	0.005 (A)	35	0.005 (A)	5.6	0.005 U	0.0002 J	0.001 U	0.003	**0.006 (NDW,RDW)**	**0.018 (NDW,RDW)**	**2 JD (NDW,RDW) [1.9 JD (NDW,RDW)]**	**1.3 D (NDW,RDW)**	**2 D (NDW,RDW)**	**0.711 (NDW,RDW)**
Bromobenzene	mg/L	ID	ID	12	NA	0.05	390	0.018	180	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
Bromochloromethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
Bromodichloromethane	mg/L	ID	ID	14	ID	0.08 (A,W)	37	0.08 (A,W)	4.8	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.005 U
Bromoform	mg/L	ID	ID	140	ID	0.08 (A,W)	3,100 (S)	0.08 (A,W)	470	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.005 U
Bromomethane	mg/L	ID	ID	70	0.035	0.029	9	0.01	4	0.01 U	0.002 U	0.002 U	0.002 U	0.005 U	0.002 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.01 U
Carbon Disulfide	mg/L	13	ID	1,200 (S)	ID	2.3	550	0.8	250	0.03 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 UJ [0.005 UJ]	0.005 U	0.005 U	0.03 U
Carbon Tetrachloride	mg/L	ID	96	4.6	0.045 (X)	0.005 (A)	2.4	0.005 (A)	0.37	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.005 U
Chlorobenzene	mg/L	160	ID	86	0.025	0.1 (A)	470 (S)	0.1 (A)	210	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.005 U
Chloroethane	mg/L	110	ID	440	1.1 (X)	1.7	5,700 (S)	0.43	5,700 (S)	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.052 J [0.06 J]	0.023	0.089	0.069 J
Chloroform	mg/L	ID	ID	150	0.35	0.08 (A,W)	180	0.08 (A,W)	28	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.005 U
Chloromethane	mg/L	36	210	490	ID	1.1	45	0.26	8.6	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.005 U
cis-1,2-Dichloroethene	mg/L	530	ID	200	0.62	0.07 (A)	210	0.07 (A)	93	0.005 U	0.002	0.002	0.003	0.003	0.008	0.0023 J [0.0022 J]	0.0018	0.0025	0.005 U
cis-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.005 U
Cyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.005 U	0.0004 J	0.001 UJ	0.001 U	NA	0.001	0.005 UJ [0.005 UJ]	0.005 U	0.005 U	0.005 U
Dibromochloromethane	mg/L	ID	ID	18	ID	0.08 (A,W)	110	0.08 (A,W)	14	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.005 U
Dibromomethane	mg/L	ID	ID	530	NA	0.23	ID	0.08	ID	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/L	ID	ID	300 (S)	ID	4.8	300 (S)	1.7	220	0.005 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.005 U
Diethyl ether	mg/L	650	61,000 (S)	35,000	ID	10 (E)	61,000 (S)	3.7 (E)	61,000 (S)	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	43	170 (S)	170 (S)	0.018	0.7 (E)	170 (S)	0.7 (E)	110	0.01	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.005 U
Hexachloroethane	mg/L	ID	ID	1.9	0.0067 (X)	0.021	50 (S)	0.0073	27	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA
Iodomethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	29	ID	56 (S)	0.028	2.3	56 (S)	0.8	56 (S)	0.123	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.005 UJ [0.005 UJ]	0.005 U	0.005 U	0.005 U
m&p-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.01 U	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U	0.002 UJ [0.002 UJ]	0.002 U	0.002 U	0.005 U
Methyl acetate	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.05 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.005 UJ [0.005 UJ]	0.005 U	0.005 UJ	0.05 U
Methyl tert-butyl ether	mg/L	ID	ID	610	7.1 (X)	0.69 (E)	47,000 (S)	0.24 (E)	47,000 (S)	0.03 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.001 J [0.001 J]	0.001 J	0.005 U	0.03 U
Methylcyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.1 U	0.02 U	0.02 U	0.0002	NA	0.02 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.1 U
Methylene Chloride	mg/L	ID	ID	220	1.5 (X)	0.005 (A)	1,400	0.005 (A)	220	0.03 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 UJ [0.005 UJ]	0.005 UJ	0.005 U	0.03 U
Naphthalene	mg/L	NA	31 (S)	31 (S)	0.011	1.5	31 (S)	0.52	31 (S)	0.03 U	NA	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA
n-Butylbenzene	mg/L	ID	ID	5.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	ID	ID	15	ID	0.23	ID	0.08	ID	**0.359 (NDW,RDW)**	NA	NA	NA	0.001 U	0.001 U	NA	NA	NA	NA
o-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.005 U

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	20-500R 10/20/11	20-FP10R 10/26/07	20-FP10R 09/15/08	20-FP10R 09/23/09	20-FP10R 10/14/10	20-FP10R 10/24/11	36-FP1 09/27/01	36-FP1 06/14/02	36-FP1 03/27/03	36-FP1 06/09/05
p-Isopropyltoluene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	ID	ID	4.4	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
Styrene	mg/L	140	310 (S)	9.7	0.08 (X)	0.1 (A)	310 (S)	0.1 (A)	170	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.005 U
tert-Butylbenzene	mg/L	ID	ID	8.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	ID	200 (S)	12	0.06 (X)	0.005 (A)	170	0.005 (A)	25	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 UJ	0.001 U	0.005 U
Tetrahydrofuran	mg/L	60	3,600	1,600	11 (X)	0.27	16,000	0.095	6,900	NA	NA	NA	NA	0.09 U	NA	NA	NA	NA	NA
Toluene	mg/L	61	ID	530 (S)	0.27	1 (E)	530 (S)	1 (E)	530 (S)	0.005 U	0.001 U	0.001 U	0.0002	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.005 U
trans-1,2-Dichloroethene	mg/L	230	ID	220	1.5 (X)	0.1 (A)	200	0.1 (A)	85	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00072 J [0.00068 J]	0.001 U	0.001 U	0.005 U
trans-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.005 U
trans-1,4-Dichloro-2-butene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ID	1,100 (S)	22	0.2 (X)	0.005 (A)	97	0.005 (A)	15	0.005 U	0.002	**0.007 (NDW,RDW)**	**0.008 (NDW,RDW)**	0.002	0.002	**0.035 JD (NDW,RDW) [0.034 JD (NDW,RDW)]**	**0.018 (NDW,RDW)**	**0.018 (NDW,RDW)**	0.005 J
Trichlorofluoromethane	mg/L	ID	1,100 (S)	1,100 (S)	NA	7.3	1,100 (S)	2.6	1,100 (S)	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.005 U
Vinyl Chloride	mg/L	33	ID	1	0.013 (X)	0.002 (A)	13	0.002 (A)	1.1	0.005 U	0.001 U	0.0006 J	0.002	0.002	0.002	**0.0031 J (NDW,RDW) [0.003 J (NDW,RDW)]**	0.0013	**0.0081 (NDW,RDW)**	0.005 U
PCB																			
Total PCBs	mg/L	ID	ID	0.0033 (AA)	0.0002 (M	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	0.0001 U [0.0001 U]	NA	NA	NA
PCB-Dissolved																			
Total PCBs (Dissolved)	mg/L	ID	ID	0.0033 (AA)	0.0002 (M)	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	0.0001 U [0.0001 U]	NA	NA	NA
Inorganic																			
Antimony	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	0.0012 U [0.0012 U]	0.0012 U	0.0012 U	NA
Arsenic	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	**0.058 J (NDW,RDW) [0.058 J (NDW,RDW)]**	**0.033 (NDW,RDW)**	**0.054 (NDW,RDW)**	NA
Barium	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	0.83 J [0.78]	0.56	0.51	NA
Beryllium	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	**0.0010 J [0.009 (NDW,RDW)]**	0.00040 UJ	0.00040 U	NA
Cadmium	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	0.00014 J [0.00044 J]	0.00014 J	0.00020 U	NA
Chromium Total	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	0.0011 [0.0015]	0.00043 J	0.0014	NA
Cobalt	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	0.0061 [0.0065]	0.0035	0.0036	NA
Copper	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	0.0096 [0.0067]	0.0030 U	0.0044	NA
Cyanide (total)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	0.0016 J [0.0014 J]	NA	0.005 U	NA
Lead	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	0.00043 [0.00044]	0.00047	0.00057	NA
Manganese	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	**1.7 J (RDW) [2.1 (RDW)]**	**1.3 J (RDW)**	0.84	NA
Mercury	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	0.0002 U [0.0002 U]	0.0002 U	0.0002 U	NA
Nickel	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	0.023 [0.025]	0.012	0.027	NA
Selenium	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	0.0014 U [0.002 J]	0.0014 U	0.0019 J	NA
Silver	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	0.00040 U [0.0004 U]	0.00040 U	0.00040 U	NA
Thallium	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	0.00020 U [0.00028 U]	0.00020 U	0.000089 J	NA
Vanadium	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	0.00080 U [0.0008 U]	0.00080 U	0.00080 U	NA
Zinc	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	0.030 J [0.032]	0.021	0.022	NA
Inorganic-Dissolved																			
Antimony (Dissolved)	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	0.0012 U [0.0012 U]	NA	NA	NA
Arsenic (Dissolved)	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	**0.048 (NDW,RDW) [0.048 (NDW,RDW)]**	NA	NA	NA
Barium (Dissolved)	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	0.62 [0.63]	NA	NA	NA
Beryllium (Dissolved)	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	0.00040 U [0.0004 U]	NA	NA	NA
Cadmium (Dissolved)	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	0.00020 U [0.0002 U]	NA	NA	NA
Chromium Total (Dissolved)	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	0.00060 U [0.0006 U]	NA	NA	NA
Cobalt (Dissolved)	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	0.0044 [0.0044]	NA	NA	NA
Copper (Dissolved)	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	0.0029 [0.0025]	NA	NA	NA
Cyanide (dissolved)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	0.0011 J [0.0017 J]	NA	NA	NA
Lead (Dissolved)	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	0.00040 U [0.0004 U]	NA	NA	NA
Manganese (Dissolved)	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	**1.5 J (RDW) [1.5 J (RDW)]**	NA	NA	NA
Mercury (Dissolved)	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	0.0002 U [0.0002 U]	NA	NA	NA
Nickel (Dissolved)	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	0.016 [0.016]	NA	NA	NA
Selenium (Dissolved)	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	0.0028 U [0.0019 U]	NA	NA	NA
Silver (Dissolved)	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	0.00040 UJ [0.0004 UJ]	NA	NA	NA
Thallium (Dissolved)	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	0.00020 U [0.0002 U]	NA	NA	NA
Vanadium (Dissolved)	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	0.00080 U [0.0008 U]	NA	NA	NA
Zinc (Dissolved)	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	0.042 [0.039]	NA	NA	NA

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	36-FP1 10/27/11	40-304 09/14/01	40-304 12/17/02	40-304 03/21/03	40-304 10/06/04	40-304 10/31/07	40-304 09/11/08	40-304 10/18/10	40-304 10/25/11
VOC																		
1,1,1,2-Tetrachloroethane	mg/L	ID	ID	30	ID	0.32	96	0.077	15	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
1,1,1-Trichloroethane	mg/L	ID	1,300 (S)	1,300 (S)	0.089	0.2 (A)	1,300 (S)	0.2 (A)	660	NA	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U [0.001 U]
1,1,2,2-Tetrachloroethane	mg/L	ID	ID	4.7	0.078 (X)	0.035	77	0.0085	12	NA	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U [0.001 U]
1,1,2-trichloro-1,2,2-trifluoroethane	mg/L	ID	170 (S)	170 (S)	0.032	170 (S)	170 (S)	170 (S)	170 (S)	NA	0.001 U	0.001 U	0.001 U	0.03 U	NA	NA	NA	0.03 U [0.03 U]
1,1,2-Trichloroethane	mg/L	NA	ID	21	0.33 (X)	0.005 (A)	110	0.005 (A)	17	NA	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U [0.001 U]
1,1-Dichloroethane	mg/L	380	ID	2,400	0.74	2.5	2,300	0.88	1,000	NA	0.0014	0.0011	0.001 U	0.001 J	NA	NA	0.001 U	0.001 U [0.001 U]
1,1-Dichloroethene	mg/L	97	140	11	0.13	0.007 (A)	1.3	0.007 (A)	0.2	NA	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U [0.001 U]
1,2,3-Trichlorobenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA
1,2,3-Trichloropropane	mg/L	NA	ID	84	NA	0.12	18	0.042	8.3	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
1,2,3-Trimethylbenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
1,2,4-Trichlorobenzene	mg/L	NA	300 (S)	19	0.099 (X)	0.07 (A)	300 (S)	0.07 (A)	300 (S)	NA	0.005 U	0.005 U	0.005 U	0.002 U	NA	NA	0.005 U	0.002 U [0.002 U]
1,2,4-Trimethylbenzene	mg/L	56 (S)	ID	56 (S)	0.017	2.9 (E)	56 (S)	1 (E)	56 (S)	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
1,2-Dibromo-3-chloropropane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	0.001 U	0.001 UJ	0.001 U	0.001 U	NA	NA	0.005 U	0.001 U [0.001 U]
1,2-Dibromoethane	mg/L	ID	ID	0.025	0.0057 (X)	0.00005 (A)	15	0.00005 (A)	2.4	NA	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U [0.001 U]
1,2-Dichlorobenzene	mg/L	NA	160 (S)	160 (S)	0.013	0.6 (A)	160 (S)	0.6 (A)	160 (S)	NA	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U [0.001 U]
1,2-Dichloroethane	mg/L	2,500	ID	19	0.36 (X)	0.005 (A)	59	0.005 (A)	9.6	NA	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U [0.001 U]
1,2-Dichloropropane	mg/L	550	2,800 (S)	16	0.23 (X)	0.005 (A)	36	0.005 (A)	16	NA	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U [0.001 U]
1,3,5-Trimethylbenzene	mg/L	ID	ID	61 (S)	0.045	2.9 (E)	61 (S)	1 (E)	61 (S)	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
1,3-Dichlorobenzene	mg/L	ID	ID	2	0.028	0.019	41	0.0066	18	NA	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U [0.001 U]
1,4-Dichlorobenzene	mg/L	NA	ID	6.4	0.017	0.075 (A)	74 (S)	0.075 (A)	16	NA	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U [0.001 U]
2-Butanone	mg/L	ID	240,000 (S)	240,000 (S)	2.2	38	240,000 (S)	13	240,000 (S)	NA	0.002 J	0.0046 J	0.025 U	0.03 U	NA	NA	0.03 U	0.02 U [0.02 U]
2-Hexanone	mg/L	NA	ID	5,200	ID	2.9	8,700	1	4,200	NA	0.05 U	0.05 U	0.05 U	0.05 UJ	NA	NA	0.05 U	0.05 U [0.05 U]
2-Methylnaphthalene	mg/L	ID	ID	25 (S)	0.019	0.75	25 (S)	0.26	25 (S)	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA
4-Methyl-2-pentanone	mg/L	ID	20,000 (S)	13,000	ID	5.2	20,000 (S)	1.8	20,000 (S)	NA	0.05 U	0.05 U	0.05 U	0.001 U	NA	NA	0.05 U	0.01 U [0.01 U]
Acetone	mg/L	15,000	1,000,000 (D)	31,000	1.7	2.1	1,000,000 (D,S)	0.73	1,000,000 (D,S)	NA	0.025 U	0.025 U	0.025 U	0.007 J	NA	NA	0.05 U	0.02 U [0.02 U]
Acrylonitrile	mg/L	6,400	ID	14	0.002 (M)	0.011	190	0.0026	34	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA
Benzene	mg/L	68	67	11	0.2 (X)	0.005 (A)	35	0.005 (A)	5.6	NA	0.001 U	0.001 U	0.001 U	0.0003 J	NA	NA	0.001 U	0.001 U [0.001 U]
Bromobenzene	mg/L	ID	ID	12	NA	0.05	390	0.018	180	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
Bromochloromethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
Bromodichloromethane	mg/L	ID	ID	14	ID	0.08 (A,W)	37	0.08 (A,W)	4.8	NA	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U [0.001 U]
Bromoform	mg/L	ID	ID	140	ID	0.08 (A,W)	3,100 (S)	0.08 (A,W)	470	NA	0.001 U	0.001 UJ	0.001 U	0.001 UJ	NA	NA	0.001 U	0.001 U [0.001 U]
Bromomethane	mg/L	ID	ID	70	0.035	0.029	9	0.01	4	NA	0.001 U	0.001 U	0.001 UJ	0.002 UJ	NA	NA	0.005 U	0.002 U [0.002 U]
Carbon Disulfide	mg/L	13	ID	1,200 (S)	ID	2.3	550	0.8	250	NA	0.005 U	0.005 U	0.005 UJ	0.005 U	NA	NA	0.005 U	0.005 U [0.005 U]
Carbon Tetrachloride	mg/L	ID	96	4.6	0.045 (X)	0.005 (A)	2.4	0.005 (A)	0.37	NA	0.001 U	0.001 UJ	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U [0.001 U]
Chlorobenzene	mg/L	160	ID	86	0.025	0.1 (A)	470 (S)	0.1 (A)	210	NA	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U [0.001 U]
Chloroethane	mg/L	110	ID	440	1.1 (X)	1.7	5,700 (S)	0.43	5,700 (S)	NA	0.001 U	0.001 U	0.001 U	0.001 UJ	NA	NA	0.005 U	0.001 U [0.001 U]
Chloroform	mg/L	ID	ID	150	0.35	0.08 (A,W)	180	0.08 (A,W)	28	NA	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U [0.001 U]
Chloromethane	mg/L	36	210	490	ID	1.1	45	0.26	8.6	NA	0.001 U	0.001 U	0.001 UJ	0.001 U	NA	NA	0.005 U	0.001 U [0.001 U]
cis-1,2-Dichloroethene	mg/L	530	ID	200	0.62	0.07 (A)	210	0.07 (A)	93	NA	0.012	0.0049	0.0083	0.007	NA	NA	0.007	0.007 [0.009]
cis-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U [0.001 U]
Cyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	0.005 U	0.005 U	0.005 U	0.001 U	NA	NA	NA	0.001 U [0.001 U]
Dibromochloromethane	mg/L	ID	ID	18	ID	0.08 (A,W)	110	0.08 (A,W)	14	NA	0.001 U	0.001 UJ	0.001 U	0.001 U	NA	NA	0.005 U	0.001 U [0.001 U]
Dibromomethane	mg/L	ID	ID	530	NA	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA
Dichlorodifluoromethane	mg/L	ID	ID	300 (S)	ID	4.8	300 (S)	1.7	220	NA	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.005 U	0.001 U [0.001 U]
Diethyl ether	mg/L	650	61,000 (S)	35,000	ID	10 (E)	61,000 (S)	3.7 (E)	61,000 (S)	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA
Ethylbenzene	mg/L	43	170 (S)	170 (S)	0.018	0.7 (E)	170 (S)	0.7 (E)	110	NA	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U [0.001 U]
Hexachloroethane	mg/L	ID	ID	1.9	0.0067 (X)	0.021	50 (S)	0.0073	27	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA
Iodomethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
Isopropylbenzene	mg/L	29	ID	56 (S)	0.028	2.3	56 (S)	0.8	56 (S)	NA	0.005 U	0.005 U	0.005 U	0.001 U	NA	NA	0.005 U	0.001 U [0.001 U]
m&p-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	0.002 U	0.002 U	0.002 U	0.001 U	NA	NA	0.002 U	0.002 U [0.002 U]
Methyl acetate	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	0.005 U	0.005 U	0.005 UJ	0.01 U	NA	NA	NA	0.01 U [0.01 U]
Methyl tert-butyl ether	mg/L	ID	ID	610	7.1 (X)	0.69 (E)	47,000 (S)	0.24 (E)	47,000 (S)	NA	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA	0.005 U	0.005 U [0.005 U]
Methylcyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	0.001 U	0.001 U	0.001 U	0.02 U	NA	NA	NA	0.02 U [0.02 U]
Methylene Chloride	mg/L	ID	ID	220	1.5 (X)	0.005 (A)	1,400	0.005 (A)	220	NA	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA	0.005 U	0.005 U [0.005 U]
Naphthalene	mg/L	NA	31 (S)	31 (S)	0.011	1.5	31 (S)	0.52	31 (S)	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U [0.005 U]
n-Butylbenzene	mg/L	ID	ID	5.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
n-Propylbenzene	mg/L	ID	ID	15	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	0.001 U	0.001 U [0.001 U]
o-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U [0.001 U]

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	36-FP1 10/27/11	40-304 09/14/01	40-304 12/17/02	40-304 03/21/03	40-304 10/06/04	40-304 10/31/07	40-304 09/11/08	40-304 10/18/10	40-304 10/25/11
p-Isopropyltoluene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA
sec-Butylbenzene	mg/L	ID	ID	4.4	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
Styrene	mg/L	140	310 (S)	9.7	0.08 (X)	0.1 (A)	310 (S)	0.1 (A)	170	NA	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U [0.001 U]
tert-Butylbenzene	mg/L	ID	ID	8.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
Tetrachloroethene	mg/L	ID	200 (S)	12	0.06 (X)	0.005 (A)	170	0.005 (A)	25	NA	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U [0.001 U]
Tetrahydrofuran	mg/L	60	3,600	1,600	11 (X)	0.27	16,000	0.095	6,900	NA	NA	NA	NA	NA	NA	NA	0.09 U	NA
Toluene	mg/L	61	ID	530 (S)	0.27	1 (E)	530 (S)	1 (E)	530 (S)	NA	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U [0.001 U]
trans-1,2-Dichloroethene	mg/L	230	ID	220	1.5 (X)	0.1 (A)	200	0.1 (A)	85	NA	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U [0.001 U]
trans-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U [0.001 U]
trans-1,4-Dichloro-2-butene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
Trichloroethene	mg/L	ID	1,100 (S)	22	0.2 (X)	0.005 (A)	97	0.005 (A)	15	NA	0.001 U	0.001 U	0.001 U	0.0002 J	NA	NA	0.001 U	0.001 U [0.001 U]
Trichlorofluoromethane	mg/L	ID	1,100 (S)	1,100 (S)	NA	7.3	1,100 (S)	2.6	1,100 (S)	NA	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U [0.001 U]
Vinyl Chloride	mg/L	33	ID	1	0.013 (X)	0.002 (A)	13	0.002 (A)	1.1	NA	**0.0049 (NDW,RDW)**	**0.0053 (NDW,RDW)**	0.0017	**0.005 (NDW,RDW)**	NA	NA	**0.004 (NDW,RDW)**	**0.003 (NDW,RDW) [0.005 (NDW,RDW)]**
PCB																		
Total PCBs	mg/L	ID	ID	0.0033 (AA)	0.0002 (M	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	0.00015	NA	NA	NA	0.0001 U	0.0001 U [0.0001 U]	0.0001 U [0.0001 U] [0.0001 U]	0.0001 U [0.0001 U] [0.0001 U]
PCB-Dissolved																		
Total PCBs (Dissolved)	mg/L	ID	ID	0.0033 (AA)	0.0002 (M)	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	0.00028 U	NA	NA	NA	NA	NA	NA	NA
Inorganic																		
Antimony	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	0.005 U [0.005 U]	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	**0.035 (NDW,RDW) [0.035 (NDW,RDW)]**	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	0.525 [0.523]	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	0.001 U [0.001 U]	NA	NA	NA	0.001 U	NA	NA	NA	NA
Cadmium	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	0.0005 U [0.0005 U]	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	0.005 U [0.005 U]	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	0.005 U [0.005 U]	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	0.005 [0.005]	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	0.005 U [0.005 U]	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	**0.004 [0.007 (NDW,RDW)]**	NA	NA	NA	0.003 U	NA	NA	NA	NA
Manganese	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	**0.885 (RDW) [1.07 (RDW)]**	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	0.0002 U [0.0002 U]	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	0.044 [0.047]	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	0.005 U [0.005 U]	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	0.0005 U [0.0005 U]	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	0.002 U [0.002 U]	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	0.004 U [0.004 U]	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	0.005 U [0.005 U]	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved																		
Antimony (Dissolved)	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	0.0012 U	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	0.0098	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	0.074	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	0.00040 U	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	0.00020 U	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	0.011 U	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	0.00040	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	0.0019 U	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	0.0040 J	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	0.00040 U	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	0.44	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	0.0002 U	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	0.018	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	0.0014 U	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	0.00040 U	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	0.00020 U	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	0.00080 U	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	0.0081 U	NA	NA	NA	NA	NA	NA	NA

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	70-165 09/26/01	70-165 06/22/02	70-165 03/28/03	70-165 10/07/04	70-165 10/29/07	70-165 09/16/08	70-165 09/24/09	70-165 10/18/10	70-165 10/24/11
VOC																		
1,1,1,2-Tetrachloroethane	mg/L	ID	ID	30	ID	0.32	96	0.077	15	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
1,1,1-Trichloroethane	mg/L	ID	1,300 (S)	1,300 (S)	0.089	0.2 (A)	1,300 (S)	0.2 (A)	660	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	ID	ID	4.7	0.078 (X)	0.035	77	0.0085	12	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/L	ID	170 (S)	170 (S)	0.032	170 (S)	170 (S)	170 (S)	170 (S)	0.001 UJ	NA	NA	0.03 U	NA	NA	0.03 U	NA	0.03 U
1,1,2-Trichloroethane	mg/L	NA	ID	21	0.33 (X)	0.005 (A)	110	0.005 (A)	17	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	380	ID	2,400	0.74	2.5	2,300	0.88	1,000	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	97	140	11	0.13	0.007 (A)	1.3	0.007 (A)	0.2	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U
1,2,3-Trichlorobenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA
1,2,3-Trichloropropane	mg/L	NA	ID	84	NA	0.12	18	0.042	8.3	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
1,2,3-Trimethylbenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
1,2,4-Trichlorobenzene	mg/L	NA	300 (S)	19	0.099 (X)	0.07 (A)	300 (S)	0.07 (A)	300 (S)	0.005 U	NA	NA	0.002 U	NA	NA	0.002 U	0.005 U	0.002 U
1,2,4-Trimethylbenzene	mg/L	56 (S)	ID	56 (S)	0.017	2.9 (E)	56 (S)	1 (E)	56 (S)	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
1,2-Dibromo-3-chloropropane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.005 U	0.001 U
1,2-Dibromoethane	mg/L	ID	ID	0.025	0.0057 (X)	0.00005 (A)	15	0.00005 (A)	2.4	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	NA	160 (S)	160 (S)	0.013	0.6 (A)	160 (S)	0.6 (A)	160 (S)	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	2,500	ID	19	0.36 (X)	0.005 (A)	59	0.005 (A)	9.6	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	550	2,800 (S)	16	0.23 (X)	0.005 (A)	36	0.005 (A)	16	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	ID	ID	61 (S)	0.045	2.9 (E)	61 (S)	1 (E)	61 (S)	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
1,3-Dichlorobenzene	mg/L	ID	ID	2	0.028	0.019	41	0.0066	18	0.001 U	NA	NA	0.001 U	NA	NA	0.0001	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	NA	ID	6.4	0.017	0.075 (A)	74 (S)	0.075 (A)	16	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U
2-Butanone	mg/L	ID	240,000 (S)	240,000 (S)	2.2	38	240,000 (S)	13	240,000 (S)	0.025 U	NA	NA	0.03 U	NA	NA	0.02 U	0.03 UJ	0.02 U
2-Hexanone	mg/L	NA	ID	5,200	ID	2.9	8,700	1	4,200	0.05 U	NA	NA	0.05 U	NA	NA	0.05 U	0.05 UJ	0.05 U
2-Methylnaphthalene	mg/L	ID	ID	25 (S)	0.019	0.75	25 (S)	0.26	25 (S)	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA
4-Methyl-2-pentanone	mg/L	ID	20,000 (S)	13,000	ID	5.2	20,000 (S)	1.8	20,000 (S)	0.05 U	NA	NA	0.001 U	NA	NA	0.01 U	0.05 U	0.01 U
Acetone	mg/L	15,000	1,000,000 (D)	31,000	1.7	2.1	1,000,000 (D,S)	0.73	1,000,000 (D,S)	0.025 U	NA	NA	0.03 U	NA	NA	0.002	0.05 UJ	0.02 U
Acrylonitrile	mg/L	6,400	ID	14	0.002 (M)	0.011	190	0.0026	34	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA
Benzene	mg/L	68	67	11	0.2 (X)	0.005 (A)	35	0.005 (A)	5.6	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U
Bromobenzene	mg/L	ID	ID	12	NA	0.05	390	0.018	180	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
Bromochloromethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
Bromodichloromethane	mg/L	ID	ID	14	ID	0.08 (A,W)	37	0.08 (A,W)	4.8	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	ID	ID	140	ID	0.08 (A,W)	3,100 (S)	0.08 (A,W)	470	0.001 U	NA	NA	0.001 UJ	NA	NA	0.001 U	0.001 U	0.001 U
Bromomethane	mg/L	ID	ID	70	0.035	0.029	9	0.01	4	0.001 UJ	NA	NA	0.002 UJ	NA	NA	0.002 U	0.005 U	0.002 U
Carbon Disulfide	mg/L	13	ID	1,200 (S)	ID	2.3	550	0.8	250	0.005 U	NA	NA	0.005 UJ	NA	NA	0.005 U	0.005 U	0.005 U
Carbon Tetrachloride	mg/L	ID	96	4.6	0.045 (X)	0.005 (A)	2.4	0.005 (A)	0.37	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	160	ID	86	0.025	0.1 (A)	470 (S)	0.1 (A)	210	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	110	ID	440	1.1 (X)	1.7	5,700 (S)	0.43	5,700 (S)	0.001 U	NA	NA	0.001 UJ	NA	NA	0.001 U	0.005 U	0.001 U
Chloroform	mg/L	ID	ID	150	0.35	0.08 (A,W)	180	0.08 (A,W)	28	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U
Chloromethane	mg/L	36	210	490	ID	1.1	45	0.26	8.6	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.005 U	0.001 U
cis-1,2-Dichloroethene	mg/L	530	ID	200	0.62	0.07 (A)	210	0.07 (A)	93	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.005 U	NA	NA	0.001 U	NA	NA	0.001 U	NA	0.001 U
Dibromochloromethane	mg/L	ID	ID	18	ID	0.08 (A,W)	110	0.08 (A,W)	14	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.005 U	0.001 U
Dibromomethane	mg/L	ID	ID	530	NA	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA
Dichlorodifluoromethane	mg/L	ID	ID	300 (S)	ID	4.8	300 (S)	1.7	220	0.001 U	NA	NA	0.001 UJ	NA	NA	0.001 U	0.005 U	0.001 U
Diethyl ether	mg/L	650	61,000 (S)	35,000	ID	10 (E)	61,000 (S)	3.7 (E)	61,000 (S)	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA
Ethylbenzene	mg/L	43	170 (S)	170 (S)	0.018	0.7 (E)	170 (S)	0.7 (E)	110	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U
Hexachloroethane	mg/L	ID	ID	1.9	0.0067 (X)	0.021	50 (S)	0.0073	27	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA
Iodomethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
Isopropylbenzene	mg/L	29	ID	56 (S)	0.028	2.3	56 (S)	0.8	56 (S)	0.005 U	NA	NA	0.001 U	NA	NA	0.001 U	0.005 U	0.001 U
m&p-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.002 U	NA	NA	0.001 U	NA	NA	0.001 U	0.002 U	0.002 U
Methyl acetate	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.005 U	NA	NA	0.01 U	NA	NA	0.01 U	NA	0.01 U
Methyl tert-butyl ether	mg/L	ID	ID	610	7.1 (X)	0.69 (E)	47,000 (S)	0.24 (E)	47,000 (S)	0.005 U	NA	NA	0.005 U	NA	NA	0.005 U	0.005 U	0.005 U
Methylcyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	NA	0.02 U	NA	NA	0.02 U	NA	0.02 U
Methylene Chloride	mg/L	ID	ID	220	1.5 (X)	0.005 (A)	1,400	0.005 (A)	220	0.005 U	NA	NA	0.005 U	NA	NA	0.005 U	0.005 U	0.005 U
Naphthalene	mg/L	NA	31 (S)	31 (S)	0.011	1.5	31 (S)	0.52	31 (S)	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
n-Butylbenzene	mg/L	ID	ID	5.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
n-Propylbenzene	mg/L	ID	ID	15	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	0.001 U	0.001 U
o-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	70-165 09/26/01	70-165 06/22/02	70-165 03/28/03	70-165 10/07/04	70-165 10/29/07	70-165 09/16/08	70-165 09/24/09	70-165 10/18/10	70-165 10/24/11
p-Isopropyltoluene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA
sec-Butylbenzene	mg/L	ID	ID	4.4	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
Styrene	mg/L	140	310 (S)	9.7	0.08 (X)	0.1 (A)	310 (S)	0.1 (A)	170	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U
tert-Butylbenzene	mg/L	ID	ID	8.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
Tetrachloroethene	mg/L	ID	200 (S)	12	0.06 (X)	0.005 (A)	170	0.005 (A)	25	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U
Tetrahydrofuran	mg/L	60	3,600	1,600	11 (X)	0.27	16,000	0.095	6,900	NA	NA	NA	NA	NA	NA	NA	0.09 U	NA
Toluene	mg/L	61	ID	530 (S)	0.27	1 (E)	530 (S)	1 (E)	530 (S)	0.001 U	NA	NA	0.001 U	NA	NA	0.0001	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	230	ID	220	1.5 (X)	0.1 (A)	200	0.1 (A)	85	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
Trichloroethene	mg/L	ID	1,100 (S)	22	0.2 (X)	0.005 (A)	97	0.005 (A)	15	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane	mg/L	ID	1,100 (S)	1,100 (S)	NA	7.3	1,100 (S)	2.6	1,100 (S)	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U
Vinyl Chloride	mg/L	33	ID	1	0.013 (X)	0.002 (A)	13	0.002 (A)	1.1	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U
PCB																		
Total PCBs	mg/L	ID	ID	0.0033 (AA)	0.0002 (M	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	0.0001 U	NA	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved																		
Total PCBs (Dissolved)	mg/L	ID	ID	0.0033 (AA)	0.0002 (M)	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	0.00012 U	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																		
Antimony	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	0.0012 U	0.00060 J	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	0.0027	0.0029	NA	NA	NA	NA	NA	NA
Barium	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	0.020	0.043	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	0.00040 U	0.00040 U	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	0.000064 J	0.00020 U	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	0.00042 J	0.00093	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	0.0019	0.0012	NA	NA	NA	NA	NA	NA
Copper	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	0.0048	0.0082	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	0.005 U	0.005 U	0.005 UJ	NA	NA	NA	NA	NA	NA
Lead	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	0.00023 J	**0.027 (NDW,RDW)**	**0.055 (NDW,RDW)**	**0.054 (NDW,RDW)**	**0.090 (NDW,RDW) [0.092 (NDW,RDW)]**	**0.0489 (NDW,RDW) [0.0492 (NDW,RDW)]**	**0.381 J (NDW,RDW) [0.083 J (NDW,RDW)]**	NA
Manganese	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	**1.2 J (RDW)**	0.46	NA	NA	NA	NA	NA	NA
Mercury	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	0.0002 U	0.0002 U	0.0002 U	NA	NA	NA	NA	NA	NA
Nickel	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	0.0042	0.021	NA	NA	NA	NA	NA	NA
Selenium	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	0.0031	0.0053	NA	NA	NA	NA	NA	NA
Silver	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	0.00040 UJ	0.00040 U	NA	NA	NA	NA	NA	NA
Thallium	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	0.00020 U	0.00020 U	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	0.00030 J	0.00020 J	NA	NA	NA	NA	NA	NA
Zinc	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	0.029	0.017	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved																		
Antimony (Dissolved)	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	0.0013	0.0017	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	0.0013 J	0.0029	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	0.037	0.017	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	0.00040 U	0.00040 U	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	0.00020 U	0.00020 U	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	0.00060 U	0.00060 U	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	0.0011	0.0017	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	0.0057	0.015	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	**0.019 (NDW,RDW)**	0.00040 U	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	0.72 J	**1.1 J (RDW)**	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	0.0002 U	0.0002 U	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	0.014	0.0035	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	0.0042 J	0.0027	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	0.00040 UJ	0.00040 UJ	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	0.00020 U	0.00020 U	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	0.00080 U	0.00080 U	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	0.013	0.010	NA	NA	NA	NA	NA	NA	NA

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	MW-23 02/27/02	MW-23 06/25/02	MW-23 03/20/03	MW-23 10/04/04	MW-23 10/14/10	MW-26 06/26/02	MW-26 03/24/03	MW-26 10/05/04	MW-26 02/28/05	RFI-02-05R 10/27/11	RFI-02-22 04/05/05	RFI-02-22 10/15/10	RFI-02-22 10/25/11	RFI-09-04R 06/24/02	RFI-09-04R 03/24/03	RFI-09-04R 10/05/04	RFI-09-04R 06/08/05
VOC																										
1,1,1,2-Tetrachloroethane	mg/L	ID	ID	30	ID	0.32	96	0.077	15	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/L	ID	1,300 (S)	1,300 (S)	0.089	0.2 (A)	1,300 (S)	0.2 (A)	660	0.001 UJ	NA	0.001 U	0.001 U	0.001 U	0.0031	0.0018	0.003	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0003 J	0.0003 J
1,1,2,2-Tetrachloroethane	mg/L	ID	ID	4.7	0.078 (X)	0.035	77	0.0085	12	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/L	ID	170 (S)	170 (S)	0.032	170 (S)	170 (S)	170 (S)	170 (S)	0.001 U	NA	0.001 U	0.03 U	NA	0.001 UJ	0.001 U	0.03 U	NA	0.03 U	0.03 U	NA	0.03 U	0.001 U	0.001 U	0.03 U	0.03 U
1,1,2-Trichloroethane	mg/L	NA	ID	21	0.33 (X)	0.005 (A)	110	0.005 (A)	17	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	380	ID	2,400	0.74	2.5	2,300	0.88	1,000	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.0045	0.0017	0.006 J	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	97	140	11	0.13	0.007 (A)	1.3	0.007 (A)	0.2	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,3-Trichlorobenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/L	NA	ID	84	NA	0.12	18	0.042	8.3	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/L	NA	300 (S)	19	0.099 (X)	0.07 (A)	300 (S)	0.07 (A)	300 (S)	0.005 U	NA	0.005 U	0.002 U	0.005 U	0.005 U	0.005 U	0.002 U	NA	0.002 U	0.002 U	0.005 U	0.002 U	0.005 U	0.005 U	0.002 U	0.002 U
1,2,4-Trimethylbenzene	mg/L	56 (S)	ID	56 (S)	0.017	2.9 (E)	56 (S)	1 (E)	56 (S)	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 UJ	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromoethane	mg/L	ID	ID	0.025	0.0057 (X)	0.00005 (A)	15	0.00005 (A)	2.4	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	NA	160 (S)	160 (S)	0.013	0.6 (A)	160 (S)	0.6 (A)	160 (S)	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	2,500	ID	19	0.36 (X)	0.005 (A)	59	0.005 (A)	9.6	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	550	2,800 (S)	16	0.23 (X)	0.005 (A)	36	0.005 (A)	16	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	ID	ID	61 (S)	0.045	2.9 (E)	61 (S)	1 (E)	61 (S)	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ID	ID	2	0.028	0.019	41	0.0066	18	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	NA	ID	6.4	0.017	0.075 (A)	74 (S)	0.075 (A)	16	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone	mg/L	ID	240,000 (S)	240,000 (S)	2.2	38	240,000 (S)	13	240,000 (S)	0.025 U	NA	0.025 U	0.03 U	0.03 U	0.025 U	0.025 U	0.03 U	NA	0.02 U	0.03 U	0.03 U	0.02 U	0.025 UJ	0.025 U	0.03 U	0.03 U
2-Hexanone	mg/L	NA	ID	5,200	ID	2.9	8,700	1	4,200	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
2-Methylnaphthalene	mg/L	ID	ID	25 (S)	0.019	0.75	25 (S)	0.26	25 (S)	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	ID	20,000 (S)	13,000	ID	5.2	20,000 (S)	1.8	20,000 (S)	0.05 U	NA	0.05 U	0.001 U	0.05 U	0.05 U	0.05 U	0.001 U	NA	0.01 U	0.001 U	0.05 U	0.01 U	0.05 U	0.05 U	0.001 U	0.001 U
Acetone	mg/L	15,000	1,000,000 (D)	31,000	1.7	2.1	1,000,000 (D,S)	0.73	1,000,000 (D,S)	0.025 U	NA	0.025 U	0.03 U	0.05 U	0.0035 J	0.025 U	0.03 U	NA	0.02 U	0.01 J	0.05 U	0.02 U	0.025 U	0.025 U	0.03 U	0.03 U
Acrylonitrile	mg/L	6,400	ID	14	0.002 (M)	0.011	190	0.0026	34	NA	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA
Benzene	mg/L	68	67	11	0.2 (X)	0.005 (A)	35	0.005 (A)	5.6	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.0002 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromobenzene	mg/L	ID	ID	12	NA	0.05	390	0.018	180	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
Bromochloromethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
Bromodichloromethane	mg/L	ID	ID	14	ID	0.08 (A,W)	37	0.08 (A,W)	4.8	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	ID	ID	140	ID	0.08 (A,W)	3,100 (S)	0.08 (A,W)	470	0.001 U	NA	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 UJ	NA	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U
Bromomethane	mg/L	ID	ID	70	0.035	0.029	9	0.01	4	0.001 UJ	NA	0.001 U	0.002 UJ	0.005 U	0.001 U	0.001 UJ	0.002 UJ	NA	0.002 U	R	0.005 U	0.002 U	0.001 U	0.001 UJ	0.002 UJ	0.002 U
Carbon Disulfide	mg/L	13	ID	1,200 (S)	ID	2.3	550	0.8	250	0.005 U	NA	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 UJ	0.005 UJ	NA	0.005 U	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 UJ	0.005 U	0.005 U
Carbon Tetrachloride	mg/L	ID	96	4.6	0.045 (X)	0.005 (A)	2.4	0.005 (A)	0.37	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0003 J	0.001 U
Chlorobenzene	mg/L	160	ID	86	0.025	0.1 (A)	470 (S)	0.1 (A)	210	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	110	ID	440	1.1 (X)	1.7	5,700 (S)	0.43	5,700 (S)	0.001 U	NA	0.001 U	0.001 UJ	0.005 U	0.0021	0.001 U	0.002 J	NA	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U
Chloroform	mg/L	ID	ID	150	0.35	0.08 (A,W)	180	0.08 (A,W)	28	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane	mg/L	36	210	490	ID	1.1	45	0.26	8.6	0.001 U	NA	0.001 UJ	0.001 U	0.005 U	0.001 U	0.001 UJ	0.001 U	NA	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	530	ID	200	0.62	0.07 (A)	210	0.07 (A)	93	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.0003 J	0.001 U	0.001 U	0.00098 J	0.001 U	0.002	0.001
cis-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.005 UJ	NA	0.005 U	0.001 U	NA	0.034	0.0053	0.002 J	NA	0.001 U	0.001 UJ	NA	0.001 U	0.005 U	0.005 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	ID	ID	18	ID	0.08 (A,W)	110	0.08 (A,W)	14	0.001 U	NA	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromomethane	mg/L	ID	ID	530	NA	0.23	ID	0.08	ID	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/L	ID	ID	300 (S)	ID	4.8	300 (S)	1.7	220	0.001 U	NA	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 UJ	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Diethyl ether	mg/L	650	61,000 (S)	35,000	ID	10 (E)	61,000 (S)	3.7 (E)	61,000 (S)	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	43	170 (S)	170 (S)	0.018	0.7 (E)	170 (S)	0.7 (E)	110	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.00057 J	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Hexachloroethane	mg/L	ID	ID	1.9	0.0067 (X)	0.021	50 (S)	0.0073	27	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA
Iodomethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	29	ID	56 (S)	0.028	2.3	56 (S)	0.8	56 (S)	0.005 U	NA	0.005 U	0.001 U	0.005 U	0.0036 J	0.005 U	0.001 U	NA	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.001 U
m&p-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.002 U	NA	0.002 U	0.001 U	0.002 U	0.002 U	0.002 U	0.001 U	NA	0.002 U	0.001 U	0.002 U	0.002 U	0.002 U	0.002 U	0.001 U	0.001 U
Methyl acetate	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.005 U	NA	0.005 U	0.01 U	NA	0.005 U	0.005 U	0.006 J	NA	0.01 U	0.01 U	NA	0.01 U	0.005 U	0.005 U	0.01 UJ	0.01 U
Methyl tert-butyl ether	mg/L	ID	ID	610	7.1 (X)	0.69 (E)	47,000 (S)	0.24 (E)	47,000 (S)	0.005 UJ	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methylcyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	0.001 U	0.02 U	NA	0.12 EJ	0.01	0.02 U	NA	0.02 U	0.02 UJ	NA	0.02 U	0.001 U	0.001 U	0.02 U	0.02 U
Methylene Chloride	mg/L	ID	ID	220	1.5 (X)	0.005 (A)	1,400	0.005 (A)	220	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Naphthalene	mg/L	NA	31 (S)	31 (S)	0.011	1.5	31 (S)	0.52	31 (S)	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	0.005 U	NA	0.005 U	0.005 U	NA	NA	NA	NA
n-Butylbenzene	mg/L	ID	ID	5.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	ID	ID	15	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	0.001 U	NA	0.001 U	0.001 U	NA	NA	NA	NA
o-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	MW-23 02/27/02	MW-23 06/25/02	MW-23 03/20/03	MW-23 10/04/04	MW-23 10/14/10	MW-26 06/26/02	MW-26 03/24/03	MW-26 10/05/04	MW-26 02/28/05	RFI-02-05R 10/27/11	RFI-02-22 04/05/05	RFI-02-22 10/15/10	RFI-02-22 10/25/11	RFI-09-04R 06/24/02	RFI-09-04R 03/24/03	RFI-09-04R 10/05/04	RFI-09-04R 06/08/05
p-Isopropyltoluene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	ID	ID	4.4	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
Styrene	mg/L	140	310 (S)	9.7	0.08 (X)	0.1 (A)	310 (S)	0.1 (A)	170	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
tert-Butylbenzene	mg/L	ID	ID	8.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	ID	200 (S)	12	0.06 (X)	0.005 (A)	170	0.005 (A)	25	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrahydrofuran	mg/L	60	3,600	1,600	11 (X)	0.27	16,000	0.095	6,900	NA	NA	NA	NA	0.09 U	NA	NA	NA	NA	NA	NA	0.09 U	NA	NA	NA	NA	NA
Toluene	mg/L	61	ID	530 (S)	0.27	1 (E)	530 (S)	1 (E)	530 (S)	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	230	ID	220	1.5 (X)	0.1 (A)	200	0.1 (A)	85	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ID	1,100 (S)	22	0.2 (X)	0.005 (A)	97	0.005 (A)	15	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.0002 J	0.001 U	0.001 U	**0.0067 (NDW,RDW)**	**0.0055 (NDW,RDW)**	**0.011 (NDW,RDW)**	**0.009 (NDW,RDW)**
Trichlorofluoromethane	mg/L	ID	1,100 (S)	1,100 (S)	NA	7.3	1,100 (S)	2.6	1,100 (S)	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.004	0.0096	0.005	0.005 J
Vinyl Chloride	mg/L	33	ID	1	0.013 (X)	0.002 (A)	13	0.002 (A)	1.1	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
PCB																										
Total PCBs	mg/L	ID	ID	0.0033 (AA)	0.0002 (M	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved																										
Total PCBs (Dissolved)	mg/L	ID	ID	0.0033 (AA)	0.0002 (M)	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																										
Antimony	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	0.0012 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	0.183	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.004	NA	NA	NA	NA	NA	NA	0.003 U	NA
Manganese	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	0.00070 J	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved																										
Antimony (Dissolved)	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.002	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-09-04R 11/01/06	RFI-09-04R 11/14/07	RFI-09-04R 09/12/08	RFI-09-04R 10/18/10	RFI-09-04R 10/20/11	RFI-09-14 10/03/01	RFI-09-14 06/26/02	RFI-09-14 03/31/03	RFI-09-14 10/04/04	RFI-09-14 12/08/05	RFI-09-14 06/27/07	RFI-09-14 11/01/07	RFI-09-14 03/18/08	RFI-09-14 06/18/08	RFI-09-14 09/10/08
VOC																								
1,1,1,2-Tetrachloroethane	mg/L	ID	ID	30	ID	0.32	96	0.077	15	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/L	ID	1,300 (S)	1,300 (S)	0.089	0.2 (A)	1,300 (S)	0.2 (A)	660	0.0006 J	0.0006 J	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	ID	ID	4.7	0.078 (X)	0.035	77	0.0085	12	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/L	ID	170 (S)	170 (S)	0.032	170 (S)	170 (S)	170 (S)	170 (S)	0.03 U	0.03 U	0.03 U	NA	0.03 U	0.001 U	NA	0.001 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
1,1,2-Trichloroethane	mg/L	NA	ID	21	0.33 (X)	0.005 (A)	110	0.005 (A)	17	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	380	ID	2,400	0.74	2.5	2,300	0.88	1,000	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	97	140	11	0.13	0.007 (A)	1.3	0.007 (A)	0.2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,3-Trichlorobenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/L	NA	ID	84	NA	0.12	18	0.042	8.3	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/L	NA	300 (S)	19	0.099 (X)	0.07 (A)	300 (S)	0.07 (A)	300 (S)	0.002 U	0.002 U	0.002 U	0.005 U	0.002 U	0.005 U	NA	0.005 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 UJ	0.002 U	0.002 U
1,2,4-Trimethylbenzene	mg/L	56 (S)	ID	56 (S)	0.017	2.9 (E)	56 (S)	1 (E)	56 (S)	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	NA	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromoethane	mg/L	ID	ID	0.025	0.0057 (X)	0.00005 (A)	15	0.00005 (A)	2.4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	NA	160 (S)	160 (S)	0.013	0.6 (A)	160 (S)	0.6 (A)	160 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	2,500	ID	19	0.36 (X)	0.005 (A)	59	0.005 (A)	9.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	550	2,800 (S)	16	0.23 (X)	0.005 (A)	36	0.005 (A)	16	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	ID	ID	61 (S)	0.045	2.9 (E)	61 (S)	1 (E)	61 (S)	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ID	ID	2	0.028	0.019	41	0.0066	18	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	NA	ID	6.4	0.017	0.075 (A)	74 (S)	0.075 (A)	16	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone	mg/L	ID	240,000 (S)	240,000 (S)	2.2	38	240,000 (S)	13	240,000 (S)	0.02 U	0.02 U	0.02 U	0.03 U	0.02 U	0.025 U	NA	0.025 U	0.03 U	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
2-Hexanone	mg/L	NA	ID	5,200	ID	2.9	8,700	1	4,200	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ
2-Methylnaphthalene	mg/L	ID	ID	25 (S)	0.019	0.75	25 (S)	0.26	25 (S)	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	ID	20,000 (S)	13,000	ID	5.2	20,000 (S)	1.8	20,000 (S)	0.01 U	0.01 U	0.01 U	0.05 U	0.01 U	0.05 U	NA	0.05 U	0.001 U	0.001 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Acetone	mg/L	15,000	1,000,000 (D)	31,000	1.7	2.1	1,000,000 (D,S)	0.73	1,000,000 (D,S)	0.02 U	0.02 U	0.02 U	0.05 U	0.02 U	0.025 U	NA	0.047	0.03 U	0.03 U	0.02 U	0.02 U	0.02 U	0.002 J	0.02 U
Acrylonitrile	mg/L	6,400	ID	14	0.002 (M)	0.011	190	0.0026	34	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	68	67	11	0.2 (X)	0.005 (A)	35	0.005 (A)	5.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromobenzene	mg/L	ID	ID	12	NA	0.05	390	0.018	180	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/L	ID	ID	14	ID	0.08 (A,W)	37	0.08 (A,W)	4.8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	ID	ID	140	ID	0.08 (A,W)	3,100 (S)	0.08 (A,W)	470	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane	mg/L	ID	ID	70	0.035	0.029	9	0.01	4	0.002 U	0.002 U	0.002 U	0.005 U	0.002 U	0.001 U	NA	0.001 U	0.002 UJ	0.002 U	0.002 U	0.002 U	0.002 U	0.002 UJ	0.002 U
Carbon Disulfide	mg/L	13	ID	1,200 (S)	ID	2.3	550	0.8	250	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 U	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon Tetrachloride	mg/L	ID	96	4.6	0.045 (X)	0.005 (A)	2.4	0.005 (A)	0.37	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	160	ID	86	0.025	0.1 (A)	470 (S)	0.1 (A)	210	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	110	ID	440	1.1 (X)	1.7	5,700 (S)	0.43	5,700 (S)	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	NA	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U
Chloroform	mg/L	ID	ID	150	0.35	0.08 (A,W)	180	0.08 (A,W)	28	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane	mg/L	36	210	490	ID	1.1	45	0.26	8.6	0.001 UJ	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	530	ID	200	0.62	0.07 (A)	210	0.07 (A)	93	0.002	0.001	0.001	0.001	0.001	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 UJ	0.001 U	0.001 UJ	NA	0.001 U	0.005 U	NA	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ
Dibromochloromethane	mg/L	ID	ID	18	ID	0.08 (A,W)	110	0.08 (A,W)	14	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromomethane	mg/L	ID	ID	530	NA	0.23	ID	0.08	ID	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/L	ID	ID	300 (S)	ID	4.8	300 (S)	1.7	220	0.001 UJ	0.001 UJ	0.001 U	0.005 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 UJ
Diethyl ether	mg/L	650	61,000 (S)	35,000	ID	10 (E)	61,000 (S)	3.7 (E)	61,000 (S)	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	43	170 (S)	170 (S)	0.018	0.7 (E)	170 (S)	0.7 (E)	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Hexachloroethane	mg/L	ID	ID	1.9	0.0067 (X)	0.021	50 (S)	0.0073	27	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	29	ID	56 (S)	0.028	2.3	56 (S)	0.8	56 (S)	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	NA	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
m&p-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U	0.002 U	NA	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methyl acetate	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.005 U	NA	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Methyl tert-butyl ether	mg/L	ID	ID	610	7.1 (X)	0.69 (E)	47,000 (S)	0.24 (E)	47,000 (S)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methylcyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.02 U	0.02 U	0.02 U	NA	0.02 U	0.001 U	NA	0.001 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 U	0.02 U
Methylene Chloride	mg/L	ID	ID	220	1.5 (X)	0.005 (A)	1,400	0.005 (A)	220	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Naphthalene	mg/L	NA	31 (S)	31 (S)	0.011	1.5	31 (S)	0.52	31 (S)	NA	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	ID	ID	5.9	ID	0.23	ID	0.08	ID	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	ID	ID	15	ID	0.23	ID	0.08	ID	NA	NA	NA	0.001 U	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-09-04R 11/01/06	RFI-09-04R 11/14/07	RFI-09-04R 09/12/08	RFI-09-04R 10/18/10	RFI-09-04R 10/20/11	RFI-09-14 10/03/01	RFI-09-14 06/26/02	RFI-09-14 03/31/03	RFI-09-14 10/04/04	RFI-09-14 12/08/05	RFI-09-14 06/27/07	RFI-09-14 11/01/07	RFI-09-14 03/18/08	RFI-09-14 06/18/08	RFI-09-14 09/10/08
p-Isopropyltoluene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	ID	ID	4.4	ID	0.23	ID	0.08	ID	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	140	310 (S)	9.7	0.08 (X)	0.1 (A)	310 (S)	0.1 (A)	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
tert-Butylbenzene	mg/L	ID	ID	8.9	ID	0.23	ID	0.08	ID	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	ID	200 (S)	12	0.06 (X)	0.005 (A)	170	0.005 (A)	25	0.001 U	0.0001 J	0.001 U	0.001 U	0.001 U	0.001 UJ	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrahydrofuran	mg/L	60	3,600	1,600	11 (X)	0.27	16,000	0.095	6,900	NA	NA	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/L	61	ID	530 (S)	0.27	1 (E)	530 (S)	1 (E)	530 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0001 J	0.001 U
trans-1,2-Dichloroethene	mg/L	230	ID	220	1.5 (X)	0.1 (A)	200	0.1 (A)	85	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ID	1,100 (S)	22	0.2 (X)	0.005 (A)	97	0.005 (A)	15	**0.012 (NDW,RDW)**	**0.01 (NDW,RDW)**	**0.009 (NDW,RDW)**	**0.008 (NDW,RDW)**	**0.01 (NDW,RDW)**	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane	mg/L	ID	1,100 (S)	1,100 (S)	NA	7.3	1,100 (S)	2.6	1,100 (S)	0.004	0.003	0.003	0.006	0.005	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl Chloride	mg/L	33	ID	1	0.013 (X)	0.002 (A)	13	0.002 (A)	1.1	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
PCB																								
Total PCBs	mg/L	ID	ID	0.0033 (AA)	0.0002 (M	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved																								
Total PCBs (Dissolved)	mg/L	ID	ID	0.0033 (AA)	0.0002 (M)	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																								
Antimony	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	0.00071 J	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	0.15	NA	0.117	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	0.0025 U	NA	0.005 U	NA	NA	NA	NA	NA	NA
Silver	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved																								
Antimony (Dissolved)	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	R	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	0.00040 U	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-09-14 12/02/08	RFI-09-14 10/13/10	RFI-09-46 12/19/02	RFI-09-46 04/01/03	RFI-09-46 10/05/04	RFI-09-46 06/27/07	RFI-09-46 10/26/07	RFI-09-46 03/18/08	RFI-09-46 06/17/08
VOC																		
1,1,1,2-Tetrachloroethane	mg/L	ID	ID	30	ID	0.32	96	0.077	15	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/L	ID	1,300 (S)	1,300 (S)	0.089	0.2 (A)	1,300 (S)	0.2 (A)	660	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	ID	ID	4.7	0.078 (X)	0.035	77	0.0085	12	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/L	ID	170 (S)	170 (S)	0.032	170 (S)	170 (S)	170 (S)	170 (S)	0.03 U [0.03 U]	NA	0.001 U [0.001 U]	0.001 U	0.03 U	0.03 U	0.03 U	0.03 U [0.03 U]	0.03 U
1,1,2-Trichloroethane	mg/L	NA	ID	21	0.33 (X)	0.005 (A)	110	0.005 (A)	17	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
1,1-Dichloroethane	mg/L	380	ID	2,400	0.74	2.5	2,300	0.88	1,000	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.0001 J	0.001 U [0.001 U]	0.001 U
1,1-Dichloroethene	mg/L	97	140	11	0.13	0.007 (A)	1.3	0.007 (A)	0.2	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
1,2,3-Trichlorobenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/L	NA	ID	84	NA	0.12	18	0.042	8.3	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/L	NA	300 (S)	19	0.099 (X)	0.07 (A)	300 (S)	0.07 (A)	300 (S)	0.002 U [0.002 U]	0.005 U	0.005 U [0.005 U]	0.005 U	0.002 U	0.002 U	0.002 U	0.002 U [0.002 U]	0.002 U
1,2,4-Trimethylbenzene	mg/L	56 (S)	ID	56 (S)	0.017	2.9 (E)	56 (S)	1 (E)	56 (S)	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U [0.001 U]	0.005 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
1,2-Dibromoethane	mg/L	ID	ID	0.025	0.0057 (X)	0.00005 (A)	15	0.00005 (A)	2.4	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
1,2-Dichlorobenzene	mg/L	NA	160 (S)	160 (S)	0.013	0.6 (A)	160 (S)	0.6 (A)	160 (S)	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
1,2-Dichloroethane	mg/L	2,500	ID	19	0.36 (X)	0.005 (A)	59	0.005 (A)	9.6	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U [0.001 U]	0.001 U
1,2-Dichloropropane	mg/L	550	2,800 (S)	16	0.23 (X)	0.005 (A)	36	0.005 (A)	16	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
1,3,5-Trimethylbenzene	mg/L	ID	ID	61 (S)	0.045	2.9 (E)	61 (S)	1 (E)	61 (S)	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ID	ID	2	0.028	0.019	41	0.0066	18	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
1,4-Dichlorobenzene	mg/L	NA	ID	6.4	0.017	0.075 (A)	74 (S)	0.075 (A)	16	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
2-Butanone	mg/L	ID	240,000 (S)	240,000 (S)	2.2	38	240,000 (S)	13	240,000 (S)	0.02 UJ [0.02 UJ]	0.03 U	0.025 U [0.025 U]	0.025 U	0.03 U	0.02 U	0.02 U	0.002 J [0.02 U]	0.02 U
2-Hexanone	mg/L	NA	ID	5,200	ID	2.9	8,700	1	4,200	0.05 UJ [0.05 UJ]	0.05 U	0.05 U [0.05 U]	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U [0.05 U]	0.05 U
2-Methylnaphthalene	mg/L	ID	ID	25 (S)	0.019	0.75	25 (S)	0.26	25 (S)	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	ID	20,000 (S)	13,000	ID	5.2	20,000 (S)	1.8	20,000 (S)	0.01 U [0.01 U]	0.05 U	0.05 U [0.05 U]	0.05 U	0.001 U	0.01 U	0.01 U	0.01 U [0.01 U]	0.01 U
Acetone	mg/L	15,000	1,000,000 (D)	31,000	1.7	2.1	1,000,000 (D,S)	0.73	1,000,000 (D,S)	0.02 UJ [0.02 UJ]	0.05 U	0.0061 J [0.0052 J]	0.025 U	0.06 J	0.04 U	0.02 U	0.02 U [0.02 U]	0.03 U
Acrylonitrile	mg/L	6,400	ID	14	0.002 (M)	0.011	190	0.0026	34	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	68	67	11	0.2 (X)	0.005 (A)	35	0.005 (A)	5.6	0.001 U [0.001 U]	0.001 U	**0.7 D(GSI,NDW,RDW) [0.68 D(GSI,NDW,RDW)]**	**0.5 D(GSI,NDW,RDW)**	**0.049 (NDW,RDW)**	**0.034 (NDW,RDW)**	**0.165 (NDW,RDW)**	**0.026 (NDW,RDW) [0.025 (NDW,RDW)]**	**0.026 (NDW,RDW)**
Bromobenzene	mg/L	ID	ID	12	NA	0.05	390	0.018	180	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/L	ID	ID	14	ID	0.08 (A,W)	37	0.08 (A,W)	4.8	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Bromoform	mg/L	ID	ID	140	ID	0.08 (A,W)	3,100 (S)	0.08 (A,W)	470	0.001 U [0.001 U]	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Bromomethane	mg/L	ID	ID	70	0.035	0.029	9	0.01	4	0.002 U [0.002 U]	0.005 U	0.001 U [0.001 U]	0.001 U	0.002 UJ	0.002 U	0.002 U	0.002 UJ [0.002 UJ]	0.002 U
Carbon Disulfide	mg/L	13	ID	1,200 (S)	ID	2.3	550	0.8	250	0.005 U [0.005 U]	0.005 U	0.00057 J [0.005 U]	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U
Carbon Tetrachloride	mg/L	ID	96	4.6	0.045 (X)	0.005 (A)	2.4	0.005 (A)	0.37	0.001 U [0.001 U]	0.001 U	0.001 UJ [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Chlorobenzene	mg/L	160	ID	86	0.025	0.1 (A)	470 (S)	0.1 (A)	210	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Chloroethane	mg/L	110	ID	440	1.1 (X)	1.7	5,700 (S)	0.43	5,700 (S)	0.001 U [0.001 U]	0.005 U	0.001 U [0.001 U]	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U
Chloroform	mg/L	ID	ID	150	0.35	0.08 (A,W)	180	0.08 (A,W)	28	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Chloromethane	mg/L	36	210	490	ID	1.1	45	0.26	8.6	0.001 U [0.001 U]	0.005 U	0.001 U [0.001 U]	0.001 U	0.003 U	0.004 U	0.013 U	0.004 U [0.005 U]	0.006 UJ
cis-1,2-Dichloroethene	mg/L	530	ID	200	0.62	0.07 (A)	210	0.07 (A)	93	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
cis-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Cyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U [0.001 U]	NA	0.17 D [0.16 D]	0.16 D	0.123 J	0.098	0.136	0.085 [0.085]	0.102
Dibromochloromethane	mg/L	ID	ID	18	ID	0.08 (A,W)	110	0.08 (A,W)	14	0.001 U [0.001 U]	0.005 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Dibromomethane	mg/L	ID	ID	530	NA	0.23	ID	0.08	ID	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/L	ID	ID	300 (S)	ID	4.8	300 (S)	1.7	220	0.001 U [0.001 U]	0.005 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U [0.001 U]	0.001 U
Diethyl ether	mg/L	650	61,000 (S)	35,000	ID	10 (E)	61,000 (S)	3.7 (E)	61,000 (S)	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	43	170 (S)	170 (S)	0.018	0.7 (E)	170 (S)	0.7 (E)	110	0.001 U [0.001 U]	0.001 U	0.0019 [0.0018]	0.0016	0.0004 J	0.0003 J	0.0006 J	0.0004 J [0.0004 J]	0.0004 J
Hexachloroethane	mg/L	ID	ID	1.9	0.0067 (X)	0.021	50 (S)	0.0073	27	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	29	ID	56 (S)	0.028	2.3	56 (S)	0.8	56 (S)	0.001 U [0.001 U]	0.005 U	0.017 [0.016]	0.015	0.009	0.007	0.011	0.007 [0.007]	0.008
m&p-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U [0.001 U]	0.002 U	0.045 [0.043]	0.038	0.016 J	0.008	0.012	0.007 [0.007]	0.008
Methyl acetate	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.01 U [0.01 U]	NA	0.005 U [0.005 U]	0.005 U	0.01 UJ	0.01 U	0.01 U	0.01 U [0.01 U]	0.01 U
Methyl tert-butyl ether	mg/L	ID	ID	610	7.1 (X)	0.69 (E)	47,000 (S)	0.24 (E)	47,000 (S)	0.005 U [0.005 U]	0.005 U	0.00061 J [0.00059 J]	0.005 U	0.005 U	0.005 U	0.0009 J	0.005 U [0.005 U]	0.005 U
Methylcyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.02 U [0.02 U]	NA	0.049 [0.045]	0.048	0.04	0.03	0.04	0.03 [0.03]	0.04
Methylene Chloride	mg/L	ID	ID	220	1.5 (X)	0.005 (A)	1,400	0.005 (A)	220	0.005 U [0.005 U]	0.005 U	0.005 U [0.005 U]	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U
Naphthalene	mg/L	NA	31 (S)	31 (S)	0.011	1.5	31 (S)	0.52	31 (S)	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	ID	ID	5.9	ID	0.23	ID	0.08	ID	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	ID	ID	15	ID	0.23	ID	0.08	ID	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U [0.001 U]	0.001 U	0.0082 [0.0078]	0.0067	0.003	0.002	0.004	0.002 [0.002]	0.002

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-09-14 12/02/08	RFI-09-14 10/13/10	RFI-09-46 12/19/02	RFI-09-46 04/01/03	RFI-09-46 10/05/04	RFI-09-46 06/27/07	RFI-09-46 10/26/07	RFI-09-46 03/18/08	RFI-09-46 06/17/08
p-Isopropyltoluene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	ID	ID	4.4	ID	0.23	ID	0.08	ID	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	140	310 (S)	9.7	0.08 (X)	0.1 (A)	310 (S)	0.1 (A)	170	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
tert-Butylbenzene	mg/L	ID	ID	8.9	ID	0.23	ID	0.08	ID	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	ID	200 (S)	12	0.06 (X)	0.005 (A)	170	0.005 (A)	25	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Tetrahydrofuran	mg/L	60	3,600	1,600	11 (X)	0.27	16,000	0.095	6,900	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/L	61	ID	530 (S)	0.27	1 (E)	530 (S)	1 (E)	530 (S)	0.001 U [0.001 U]	0.001 U	0.019 [0.018]	0.016	0.006	0.004	0.007	0.004 [0.004]	0.004
trans-1,2-Dichloroethene	mg/L	230	ID	220	1.5 (X)	0.1 (A)	200	0.1 (A)	85	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
trans-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ID	1,100 (S)	22	0.2 (X)	0.005 (A)	97	0.005 (A)	15	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Trichlorofluoromethane	mg/L	ID	1,100 (S)	1,100 (S)	NA	7.3	1,100 (S)	2.6	1,100 (S)	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Vinyl Chloride	mg/L	33	ID	1	0.013 (X)	0.002 (A)	13	0.002 (A)	1.1	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
PCB																		
Total PCBs	mg/L	ID	ID	0.0033 (AA)	0.0002 (M	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved																		
Total PCBs (Dissolved)	mg/L	ID	ID	0.0033 (AA)	0.0002 (M)	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																		
Antimony	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	0.0012 U [0.0012 U]	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	0.0022 J [0.002 J]	NA	NA	NA	NA	NA	NA
Barium	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	1.3 J [1.2 J]	NA	0.635	NA	NA	NA	NA
Beryllium	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	0.00040 U [0.0004 U]	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	0.00020 U [0.0002 U]	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	0.00060 U [0.0006 U]	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	0.00040 J [0.00034 J]	NA	NA	NA	NA	NA	NA
Copper	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	0.0033 J [0.0019 J]	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	0.005 U [0.0033 J]	NA	NA	NA	NA	NA	NA
Lead	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	0.00048 J [0.0004 U]	NA	NA	NA	NA	NA	NA
Manganese	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	0.065 J [0.059 J]	NA	NA	NA	NA	NA	NA
Mercury	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	0.0002 U [0.0002 U]	NA	NA	NA	NA	NA	NA
Nickel	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	0.0069 J [0.0058 J]	NA	NA	NA	NA	NA	NA
Selenium	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	0.0016 U [0.0016 U]	NA	0.005 U	NA	NA	NA	NA
Silver	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	0.00040 UJ [0.0004 UJ]	NA	NA	NA	NA	NA	NA
Thallium	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	0.00020 U [0.0002 U]	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	0.00080 U [0.0008 U]	NA	NA	NA	NA	NA	NA
Zinc	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	0.057 J [0.047 J]	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved																		
Antimony (Dissolved)	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-09-46 09/12/08	RFI-09-46 12/02/08	RFI-09-46 10/13/10	RFI-09-46 10/25/11	RFI-09-48 04/24/03	RFI-09-48 10/06/04	RFI-09-48 02/24/05	RFI-09-48 12/08/05	RFI-09-48 11/01/06	RFI-09-48 04/23/07	RFI-09-48 06/27/07	RFI-09-48 11/01/07	RFI-09-48 03/18/08
VOC																						
1,1,1,2-Tetrachloroethane	mg/L	ID	ID	30	ID	0.32	96	0.077	15	NA	NA	0.001 U [0.001 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/L	ID	1,300 (S)	1,300 (S)	0.089	0.2 (A)	1,300 (S)	0.2 (A)	660	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	ID	ID	4.7	0.078 (X)	0.035	77	0.0085	12	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/L	ID	170 (S)	170 (S)	0.032	170 (S)	170 (S)	170 (S)	170 (S)	0.03 U	0.03 U	NA	0.03 U	0.001 U	0.03 U	NA	0.03 U	0.03 U	0.03 U	0.03 U [0.03 U]	0.03 U	0.03 U
1,1,2-Trichloroethane	mg/L	NA	ID	21	0.33 (X)	0.005 (A)	110	0.005 (A)	17	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	380	ID	2,400	0.74	2.5	2,300	0.88	1,000	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	97	140	11	0.13	0.007 (A)	1.3	0.007 (A)	0.2	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
1,2,3-Trichlorobenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.005 U [0.005 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/L	NA	ID	84	NA	0.12	18	0.042	8.3	NA	NA	0.001 U [0.001 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.003 [0.003]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/L	NA	300 (S)	19	0.099 (X)	0.07 (A)	300 (S)	0.07 (A)	300 (S)	0.002 U	0.002 U	0.005 U [0.005 U]	0.002 U	0.005 U	0.002 U	NA	0.002 U	0.002 U	0.002 U	0.002 U [0.002 U]	0.002 U	0.002 UJ
1,2,4-Trimethylbenzene	mg/L	56 (S)	ID	56 (S)	0.017	2.9 (E)	56 (S)	1 (E)	56 (S)	NA	NA	0.001 U [0.001 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.005 U [0.005 U]	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
1,2-Dibromoethane	mg/L	ID	ID	0.025	0.0057 (X)	0.00005 (A)	15	0.00005 (A)	2.4	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	NA	160 (S)	160 (S)	0.013	0.6 (A)	160 (S)	0.6 (A)	160 (S)	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	2,500	ID	19	0.36 (X)	0.005 (A)	59	0.005 (A)	9.6	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	550	2,800 (S)	16	0.23 (X)	0.005 (A)	36	0.005 (A)	16	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	ID	ID	61 (S)	0.045	2.9 (E)	61 (S)	1 (E)	61 (S)	NA	NA	0.001 U [0.001 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ID	ID	2	0.028	0.019	41	0.0066	18	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	NA	ID	6.4	0.017	0.075 (A)	74 (S)	0.075 (A)	16	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
2-Butanone	mg/L	ID	240,000 (S)	240,000 (S)	2.2	38	240,000 (S)	13	240,000 (S)	0.02 U	0.02 UJ	0.13 U [0.14 U]	0.02 U	0.025 U	0.03 U	NA	0.03 U	0.02 U	0.02 U	0.02 U [0.02 U]	0.02 U	0.02 U
2-Hexanone	mg/L	NA	ID	5,200	ID	2.9	8,700	1	4,200	0.05 UJ	0.05 UJ	0.05 U [0.05 U]	0.05 U	0.05 U	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U [0.05 U]	0.05 U	0.05 U
2-Methylnaphthalene	mg/L	ID	ID	25 (S)	0.019	0.75	25 (S)	0.26	25 (S)	NA	NA	0.005 U [0.005 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	ID	20,000 (S)	13,000	ID	5.2	20,000 (S)	1.8	20,000 (S)	0.01 U	0.01 U	0.05 U [0.05 U]	0.01 U	0.05 U	0.001 U	NA	0.001 U	0.01 U	0.01 U	0.01 U [0.01 U]	0.01 U	0.01 U
Acetone	mg/L	15,000	1,000,000 (D)	31,000	1.7	2.1	1,000,000 (D,S)	0.73	1,000,000 (D,S)	0.05 U	0.02 UJ	0.05 U [0.05 U]	0.02 U	0.0019 J	0.03 U	NA	0.03 U	0.02 U	0.02 UJ	0.02 U [0.02 U]	0.02 U	0.02 U
Acrylonitrile	mg/L	6,400	ID	14	0.002 (M)	0.011	190	0.0026	34	NA	NA	0.002 U [0.002 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	68	67	11	0.2 (X)	0.005 (A)	35	0.005 (A)	5.6	**0.076 (NDW,RDW)**	**0.022 (NDW,RDW)**	**0.068 (NDW,RDW) [0.064 (NDW,RDW)]**	**0.028 (NDW,RDW)**	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
Bromobenzene	mg/L	ID	ID	12	NA	0.05	390	0.018	180	NA	NA	0.001 U [0.001 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.001 U [0.001 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/L	ID	ID	14	ID	0.08 (A,W)	37	0.08 (A,W)	4.8	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
Bromoform	mg/L	ID	ID	140	ID	0.08 (A,W)	3,100 (S)	0.08 (A,W)	470	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 UJ	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
Bromomethane	mg/L	ID	ID	70	0.035	0.029	9	0.01	4	0.002 U	0.002 U	0.005 U [0.005 U]	0.002 U	0.001 U	0.002 UJ	NA	0.002 U	0.002 U	0.002 U	0.002 U [0.002 U]	0.002 U	0.002 U
Carbon Disulfide	mg/L	13	ID	1,200 (S)	ID	2.3	550	0.8	250	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U	0.005 U	0.005 UJ	NA	0.005 U	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U	0.005 U
Carbon Tetrachloride	mg/L	ID	96	4.6	0.045 (X)	0.005 (A)	2.4	0.005 (A)	0.37	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
Chlorobenzene	mg/L	160	ID	86	0.025	0.1 (A)	470 (S)	0.1 (A)	210	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
Chloroethane	mg/L	110	ID	440	1.1 (X)	1.7	5,700 (S)	0.43	5,700 (S)	0.001 U	0.001 U	0.005 U [0.005 U]	0.001 U	0.001 U	0.001 UJ	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
Chloroform	mg/L	ID	ID	150	0.35	0.08 (A,W)	180	0.08 (A,W)	28	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
Chloromethane	mg/L	36	210	490	ID	1.1	45	0.26	8.6	0.004 UJ	0.009 U	0.005 U [0.009 U]	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	530	ID	200	0.62	0.07 (A)	210	0.07 (A)	93	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
Cyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.058 J	0.125	NA	0.113	0.005 U	0.001 U	NA	0.001 U	0.001 UJ	0.001 UJ	0.001 U [0.001 U]	0.001 U	0.001 U
Dibromochloromethane	mg/L	ID	ID	18	ID	0.08 (A,W)	110	0.08 (A,W)	14	0.001 U	0.001 U	0.005 U [0.005 U]	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
Dibromomethane	mg/L	ID	ID	530	NA	0.23	ID	0.08	ID	NA	NA	0.005 U [0.005 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/L	ID	ID	300 (S)	ID	4.8	300 (S)	1.7	220	0.001 UJ	0.001 U	0.005 U [0.005 U]	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U
Diethyl ether	mg/L	650	61,000 (S)	35,000	ID	10 (E)	61,000 (S)	3.7 (E)	61,000 (S)	NA	NA	0.01 U [0.01 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	43	170 (S)	170 (S)	0.018	0.7 (E)	170 (S)	0.7 (E)	110	0.0005 J	0.0005 J	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
Hexachloroethane	mg/L	ID	ID	1.9	0.0067 (X)	0.021	50 (S)	0.0073	27	NA	NA	0.005 U [0.005 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.001 U [0.001 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	29	ID	56 (S)	0.028	2.3	56 (S)	0.8	56 (S)	0.01	0.012 J	0.011 [0.01]	0.01	0.005 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
m&p-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.01	0.012	0.013 [0.011]	0.012	0.002 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
Methyl acetate	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.01 U	0.01 U	NA	0.01 U	0.005 U	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.01 U [0.01 U]	0.01 U	0.01 U
Methyl tert-butyl ether	mg/L	ID	ID	610	7.1 (X)	0.69 (E)	47,000 (S)	0.24 (E)	47,000 (S)	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U	0.005 U	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U	0.005 U
Methylcyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.04	0.04	NA	0.05	0.001 U	0.02 U	NA	0.02 U	0.02 U	0.02 U	0.02 U [0.02 U]	0.02 U	0.02 UJ
Methylene Chloride	mg/L	ID	ID	220	1.5 (X)	0.005 (A)	1,400	0.005 (A)	220	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U	0.005 U	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U	0.005 U
Naphthalene	mg/L	NA	31 (S)	31 (S)	0.011	1.5	31 (S)	0.52	31 (S)	NA	NA	**0.016(GSI) [0.015(GSI)]**	**0.018(GSI)**	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	ID	ID	5.9	ID	0.23	ID	0.08	ID	NA	NA	0.001 U [0.001 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	ID	ID	15	ID	0.23	ID	0.08	ID	NA	NA	0.008 [0.007]	0.008	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.003	0.004	0.004 [0.004]	0.003	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-09-46 09/12/08	RFI-09-46 12/02/08	RFI-09-46 10/13/10	RFI-09-46 10/25/11	RFI-09-48 04/24/03	RFI-09-48 10/06/04	RFI-09-48 02/24/05	RFI-09-48 12/08/05	RFI-09-48 11/01/06	RFI-09-48 04/23/07	RFI-09-48 06/27/07	RFI-09-48 11/01/07	RFI-09-48 03/18/08
p-Isopropyltoluene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.005 U [0.005 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	ID	ID	4.4	ID	0.23	ID	0.08	ID	NA	NA	0.001 U [0.001 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	140	310 (S)	9.7	0.08 (X)	0.1 (A)	310 (S)	0.1 (A)	170	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
tert-Butylbenzene	mg/L	ID	ID	8.9	ID	0.23	ID	0.08	ID	NA	NA	0.001 U [0.001 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	ID	200 (S)	12	0.06 (X)	0.005 (A)	170	0.005 (A)	25	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
Tetrahydrofuran	mg/L	60	3,600	1,600	11 (X)	0.27	16,000	0.095	6,900	NA	NA	0.09 U [0.09 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/L	61	ID	530 (S)	0.27	1 (E)	530 (S)	1 (E)	530 (S)	0.005	0.005	0.006 [0.006]	0.005	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.0002 J	0.001 U [0.001 U]	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	230	ID	220	1.5 (X)	0.1 (A)	200	0.1 (A)	85	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.001 U [0.001 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ID	1,100 (S)	22	0.2 (X)	0.005 (A)	97	0.005 (A)	15	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
Trichlorofluoromethane	mg/L	ID	1,100 (S)	1,100 (S)	NA	7.3	1,100 (S)	2.6	1,100 (S)	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
Vinyl Chloride	mg/L	33	ID	1	0.013 (X)	0.002 (A)	13	0.002 (A)	1.1	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
PCB																						
Total PCBs	mg/L	ID	ID	0.0033 (AA)	0.0002 (M	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved																						
Total PCBs (Dissolved)	mg/L	ID	ID	0.0033 (AA)	0.0002 (M)	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																						
Antimony	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	0.0012 U	0.005 U	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	**0.049(GSI,NDW,RDW)**	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	0.19	0.202	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	0.00040 U	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	0.00020 U	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	0.00049 J	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	0.00092	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	0.0023	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	0.0026 J	NA	0.005 U	NA	NA	NA	NA	NA	NA
Lead	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	0.00021 J	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	0.090	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	0.012	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	0.0016 U	0.005 U	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	0.00040 UJ	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	0.000061 J	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	0.00080 U	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	0.010	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved																						
Antimony (Dissolved)	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-09-48 06/17/08	RFI-09-48 09/12/08	RFI-09-48 12/02/08	RFI-09-48 10/18/10	RFI-09-48 10/25/11	RFI-09-53 04/07/05	RFI-09-53 06/08/05	RFI-09-53 11/01/06	RFI-09-53 11/14/07	RFI-09-53 09/12/08	RFI-09-53 09/24/09	RFI-09-53 10/18/10
VOC																					
1,1,1,2-Tetrachloroethane	mg/L	ID	ID	30	ID	0.32	96	0.077	15	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	0.001 U
1,1,1-Trichloroethane	mg/L	ID	1,300 (S)	1,300 (S)	0.089	0.2 (A)	1,300 (S)	0.2 (A)	660	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.05	**0.258 (NDW,RDW)**	0.145 [0.132]	0.133	0.135	0.001 U	0.039
1,1,2,2-Tetrachloroethane	mg/L	ID	ID	4.7	0.078 (X)	0.035	77	0.0085	12	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/L	ID	170 (S)	170 (S)	0.032	170 (S)	170 (S)	170 (S)	170 (S)	0.03 U	0.03 U	0.03 U	NA	0.03 U [0.03 U]	0.0005 J	0.2 U	0.03 U [0.03 U]	0.03 U	0.0003 J	0.03 U	NA
1,1,2-Trichloroethane	mg/L	NA	ID	21	0.33 (X)	0.005 (A)	110	0.005 (A)	17	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	380	ID	2,400	0.74	2.5	2,300	0.88	1,000	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.015	0.035	0.028 [0.026]	0.028	0.062	0.001 U	0.049
1,1-Dichloroethene	mg/L	97	140	11	0.13	0.007 (A)	1.3	0.007 (A)	0.2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.0006 J	0.004 J	0.002 [0.002]	0.002	0.002	0.001 U	0.001 U
1,2,3-Trichlorobenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	0.005 U
1,2,3-Trichloropropane	mg/L	NA	ID	84	NA	0.12	18	0.042	8.3	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	0.001 U
1,2,3-Trimethylbenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	0.001 U
1,2,4-Trichlorobenzene	mg/L	NA	300 (S)	19	0.099 (X)	0.07 (A)	300 (S)	0.07 (A)	300 (S)	0.002 U	0.002 U	0.002 U	0.005 U	0.002 U [0.002 U]	0.002 U	0.01 U	0.002 U [0.002 U]	0.002 U	0.002 U	0.002 U	0.005 U
1,2,4-Trimethylbenzene	mg/L	56 (S)	ID	56 (S)	0.017	2.9 (E)	56 (S)	1 (E)	56 (S)	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	0.001 U
1,2-Dibromo-3-chloropropane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 UJ	0.005 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.005 U
1,2-Dibromoethane	mg/L	ID	ID	0.025	0.0057 (X)	0.00005 (A)	15	0.00005 (A)	2.4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	NA	160 (S)	160 (S)	0.013	0.6 (A)	160 (S)	0.6 (A)	160 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	2,500	ID	19	0.36 (X)	0.005 (A)	59	0.005 (A)	9.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	550	2,800 (S)	16	0.23 (X)	0.005 (A)	36	0.005 (A)	16	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	ID	ID	61 (S)	0.045	2.9 (E)	61 (S)	1 (E)	61 (S)	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	0.001 U
1,3-Dichlorobenzene	mg/L	ID	ID	2	0.028	0.019	41	0.0066	18	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.0003	0.001 U
1,4-Dichlorobenzene	mg/L	NA	ID	6.4	0.017	0.075 (A)	74 (S)	0.075 (A)	16	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone	mg/L	ID	240,000 (S)	240,000 (S)	2.2	38	240,000 (S)	13	240,000 (S)	0.02 U	0.02 U	0.02 UJ	0.03 U	0.02 U [0.02 U]	0.03 U	0.1 U	0.02 U [0.02 U]	0.02 U	0.02 U	0.02 U	0.03 U
2-Hexanone	mg/L	NA	ID	5,200	ID	2.9	8,700	1	4,200	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U [0.05 U]	0.05 U	0.3 U	0.05 U [0.05 U]	0.05 U	0.05 UJ	0.05 U	0.05 U
2-Methylnaphthalene	mg/L	ID	ID	25 (S)	0.019	0.75	25 (S)	0.26	25 (S)	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	0.005 U
4-Methyl-2-pentanone	mg/L	ID	20,000 (S)	13,000	ID	5.2	20,000 (S)	1.8	20,000 (S)	0.01 U	0.01 U	0.01 U	0.05 U	0.01 U [0.01 U]	0.001 U	0.005 U	0.01 U [0.01 U]	0.01 U	0.01 U	0.01 U	0.05 U
Acetone	mg/L	15,000	1,000,000 (D)	31,000	1.7	2.1	1,000,000 (D,S)	0.73	1,000,000 (D,S)	0.02 U	0.02 U	0.02 UJ	0.05 U	0.02 U [0.02 U]	0.03 UJ	0.1 U	0.02 U [0.02 U]	0.02 U	0.02 U	0.02 U	0.05 U
Acrylonitrile	mg/L	6,400	ID	14	0.002 (M)	0.011	190	0.0026	34	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	0.002 U
Benzene	mg/L	68	67	11	0.2 (X)	0.005 (A)	35	0.005 (A)	5.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.0003 J	0.005 U	0.001 U [0.001 U]	0.0002 J	0.0004 J	0.0001	0.001 U
Bromobenzene	mg/L	ID	ID	12	NA	0.05	390	0.018	180	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	0.001 U
Bromochloromethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	0.001 U
Bromodichloromethane	mg/L	ID	ID	14	ID	0.08 (A,W)	37	0.08 (A,W)	4.8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	ID	ID	140	ID	0.08 (A,W)	3,100 (S)	0.08 (A,W)	470	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 UJ	0.005 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane	mg/L	ID	ID	70	0.035	0.029	9	0.01	4	0.002 U	0.002 U	0.002 U	0.005 U	0.002 U [0.002 U]	R	0.01 U	0.002 U [0.002 U]	0.002 U	0.002 U	0.002 U	0.005 U
Carbon Disulfide	mg/L	13	ID	1,200 (S)	ID	2.3	550	0.8	250	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U	0.03 U	0.005 U [0.005 U]	0.005 U	0.005 U	0.005 U	0.005 U
Carbon Tetrachloride	mg/L	ID	96	4.6	0.045 (X)	0.005 (A)	2.4	0.005 (A)	0.37	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.0003 J	0.005 U	0.002 [0.001]	0.0007 J	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	160	ID	86	0.025	0.1 (A)	470 (S)	0.1 (A)	210	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	110	ID	440	1.1 (X)	1.7	5,700 (S)	0.43	5,700 (S)	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 U	0.002	0.001 U	0.005 U
Chloroform	mg/L	ID	ID	150	0.35	0.08 (A,W)	180	0.08 (A,W)	28	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.002	0.003 J	0.005 [0.004]	0.003	0.002	0.001 U	0.002
Chloromethane	mg/L	36	210	490	ID	1.1	45	0.26	8.6	0.001 UJ	0.001 U	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.005 U
cis-1,2-Dichloroethene	mg/L	530	ID	200	0.62	0.07 (A)	210	0.07 (A)	93	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.012	0.011	0.024 [0.021]	0.028	0.068	0.002	0.025
cis-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 UJ	0.001 U	NA	0.001 U [0.001 U]	0.001 UJ	0.005 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 UJ	0.001 U	NA
Dibromochloromethane	mg/L	ID	ID	18	ID	0.08 (A,W)	110	0.08 (A,W)	14	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.005 U
Dibromomethane	mg/L	ID	ID	530	NA	0.23	ID	0.08	ID	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	0.005 U
Dichlorodifluoromethane	mg/L	ID	ID	300 (S)	ID	4.8	300 (S)	1.7	220	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 UJ	0.001 U	0.001 U	0.005 U
Diethyl ether	mg/L	650	61,000 (S)	35,000	ID	10 (E)	61,000 (S)	3.7 (E)	61,000 (S)	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	0.01 U
Ethylbenzene	mg/L	43	170 (S)	170 (S)	0.018	0.7 (E)	170 (S)	0.7 (E)	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U
Hexachloroethane	mg/L	ID	ID	1.9	0.0067 (X)	0.021	50 (S)	0.0073	27	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	0.005 U
Iodomethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	0.001 U
Isopropylbenzene	mg/L	29	ID	56 (S)	0.028	2.3	56 (S)	0.8	56 (S)	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.005 U
m&p-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U [0.002 U]	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.002 U
Methyl acetate	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.01 U	0.01 U	0.01 U	NA	0.01 U [0.01 U]	0.01 U	0.05 U	0.01 U [0.01 U]	0.01 U	0.01 U	0.01 U	NA
Methyl tert-butyl ether	mg/L	ID	ID	610	7.1 (X)	0.69 (E)	47,000 (S)	0.24 (E)	47,000 (S)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 UJ	0.03 U	0.005 U [0.005 U]	0.005 U	0.005 U	0.005 U	0.005 U
Methylcyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.02 U	0.02 U	0.02 U	NA	0.02 U [0.02 U]	0.0002 J	0.1 U	0.02 U [0.02 U]	0.02 U	0.02 U	0.02 U	NA
Methylene Chloride	mg/L	ID	ID	220	1.5 (X)	0.005 (A)	1,400	0.005 (A)	220	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U	0.03 U	0.005 U [0.005 U]	0.005 U	0.005 U	0.005 U	0.005 U
Naphthalene	mg/L	NA	31 (S)	31 (S)	0.011	1.5	31 (S)	0.52	31 (S)	NA	NA	NA	0.005 U	0.005 U [0.005 U]	NA	NA	NA	NA	NA	NA	0.005 U
n-Butylbenzene	mg/L	ID	ID	5.9	ID	0.23	ID	0.08	ID	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	0.001 U
n-Propylbenzene	mg/L	ID	ID	15	ID	0.23	ID	0.08	ID	NA	NA	NA	0.001 U	0.001 U [0.001 U]	NA	NA	NA	NA	NA	NA	0.001 U
o-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-09-48 06/17/08	RFI-09-48 09/12/08	RFI-09-48 12/02/08	RFI-09-48 10/18/10	RFI-09-48 10/25/11	RFI-09-53 04/07/05	RFI-09-53 06/08/05	RFI-09-53 11/01/06	RFI-09-53 11/14/07	RFI-09-53 09/12/08	RFI-09-53 09/24/09	RFI-09-53 10/18/10
p-Isopropyltoluene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	0.005 U
sec-Butylbenzene	mg/L	ID	ID	4.4	ID	0.23	ID	0.08	ID	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	0.001 U
Styrene	mg/L	140	310 (S)	9.7	0.08 (X)	0.1 (A)	310 (S)	0.1 (A)	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U
tert-Butylbenzene	mg/L	ID	ID	8.9	ID	0.23	ID	0.08	ID	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	0.001 U
Tetrachloroethene	mg/L	ID	200 (S)	12	0.06 (X)	0.005 (A)	170	0.005 (A)	25	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U
Tetrahydrofuran	mg/L	60	3,600	1,600	11 (X)	0.27	16,000	0.095	6,900	NA	NA	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	0.09 U
Toluene	mg/L	61	ID	530 (S)	0.27	1 (E)	530 (S)	1 (E)	530 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	230	ID	220	1.5 (X)	0.1 (A)	200	0.1 (A)	85	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.0003 J	0.005 U	0.001 U [0.001 U]	0.0002 J	0.0004 J	0.0002	0.001 U
trans-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	0.001 U
Trichloroethene	mg/L	ID	1,100 (S)	22	0.2 (X)	0.005 (A)	97	0.005 (A)	15	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	**0.035 (NDW,RDW)**	**0.184 (NDW,RDW)**	**0.113 (NDW,RDW) [0.106 (NDW,RDW)]**	**0.123 (NDW,RDW)**	**0.104 (NDW,RDW)**	0.001	**0.045 (NDW,RDW)**
Trichlorofluoromethane	mg/L	ID	1,100 (S)	1,100 (S)	NA	7.3	1,100 (S)	2.6	1,100 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl Chloride	mg/L	33	ID	1	0.013 (X)	0.002 (A)	13	0.002 (A)	1.1	0.0003 J	0.0006 J	0.0009 J	0.001 U	0.001 U [0.001 U]	0.001 J	0.005 U	**0.004 (NDW,RDW) [0.004 (NDW,RDW)]**	**0.005 (NDW,RDW)**	**0.023 (NDW,RDW)**	**0.003 (NDW,RDW)**	**0.008 (NDW,RDW)**
PCB																					
Total PCBs	mg/L	ID	ID	0.0033 (AA)	0.0002 (M	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved																					
Total PCBs (Dissolved)	mg/L	ID	ID	0.0033 (AA)	0.0002 (M)	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																					
Antimony	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	0.005 U [0.005 U]	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved																					
Antimony (Dissolved)	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-09-53 10/20/11	RFI-10-24 02/20/02	RFI-10-24 06/25/02	RFI-10-24 03/26/03	RFI-10-24 10/06/04	RFI-10-24 12/08/05	RFI-10-24 06/28/07	RFI-10-24 10/25/07	RFI-10-24 03/20/08	RFI-10-24 06/17/08	RFI-10-24 09/15/08	RFI-10-24 12/03/08	RFI-10-24 10/14/10	RFI-10-24 10/24/11	RFI-10-26 02/21/02	RFI-10-26 06/20/02	RFI-10-26 03/27/03	RFI-10-26 11/02/06
VOC																											
1,1,1,2-Tetrachloroethane	mg/L	ID	ID	30	ID	0.32	96	0.077	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/L	ID	1,300 (S)	1,300 (S)	0.089	0.2 (A)	1,300 (S)	0.2 (A)	660	0.131	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	ID	ID	4.7	0.078 (X)	0.035	77	0.0085	12	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/L	ID	170 (S)	170 (S)	0.032	170 (S)	170 (S)	170 (S)	170 (S)	0.03 U	0.001 U	0.001 U	0.001 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	NA	0.03 U	0.001 U	0.001 U	NA	0.03 U
1,1,2-Trichloroethane	mg/L	NA	ID	21	0.33 (X)	0.005 (A)	110	0.005 (A)	17	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
1,1-Dichloroethane	mg/L	380	ID	2,400	0.74	2.5	2,300	0.88	1,000	0.072	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.004	0.041	0.009	0.0042	0.001 U	NA	0.001 U
1,1-Dichloroethene	mg/L	97	140	11	0.13	0.007 (A)	1.3	0.007 (A)	0.2	0.003	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.003	0.001	0.001 U	0.001 U	NA	0.001 U
1,2,3-Trichlorobenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/L	NA	ID	84	NA	0.12	18	0.042	8.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/L	NA	300 (S)	19	0.099 (X)	0.07 (A)	300 (S)	0.07 (A)	300 (S)	0.002 U	0.005 U	0.005 U	0.005 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.005 U	0.002 U	0.005 U	0.005 U	NA	0.002 U
1,2,4-Trimethylbenzene	mg/L	56 (S)	ID	56 (S)	0.017	2.9 (E)	56 (S)	1 (E)	56 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
1,2-Dibromoethane	mg/L	ID	ID	0.025	0.0057 (X)	0.00005 (A)	15	0.00005 (A)	2.4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
1,2-Dichlorobenzene	mg/L	NA	160 (S)	160 (S)	0.013	0.6 (A)	160 (S)	0.6 (A)	160 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
1,2-Dichloroethane	mg/L	2,500	ID	19	0.36 (X)	0.005 (A)	59	0.005 (A)	9.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
1,2-Dichloropropane	mg/L	550	2,800 (S)	16	0.23 (X)	0.005 (A)	36	0.005 (A)	16	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
1,3,5-Trimethylbenzene	mg/L	ID	ID	61 (S)	0.045	2.9 (E)	61 (S)	1 (E)	61 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ID	ID	2	0.028	0.019	41	0.0066	18	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
1,4-Dichlorobenzene	mg/L	NA	ID	6.4	0.017	0.075 (A)	74 (S)	0.075 (A)	16	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
2-Butanone	mg/L	ID	240,000 (S)	240,000 (S)	2.2	38	240,000 (S)	13	240,000 (S)	0.02 U	0.025 U	0.025 U	0.025 U	0.03 U	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.03 U	0.02 U	0.025 U	0.025 U	NA	0.02 U
2-Hexanone	mg/L	NA	ID	5,200	ID	2.9	8,700	1	4,200	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	NA	0.05 U
2-Methylnaphthalene	mg/L	ID	ID	25 (S)	0.019	0.75	25 (S)	0.26	25 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	ID	20,000 (S)	13,000	ID	5.2	20,000 (S)	1.8	20,000 (S)	0.01 U	0.05 U	0.05 U	0.05 U	0.001 U	0.001 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.01 U	0.05 U	0.05 U	NA	0.01 U
Acetone	mg/L	15,000	1,000,000 (D)	31,000	1.7	2.1	1,000,000 (D,S)	0.73	1,000,000 (D,S)	0.02 U	0.025 U	0.025 U	0.025 U	0.03 U	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.05 U	0.02 U	0.025 U	0.025 U	NA	0.02 U
Acrylonitrile	mg/L	6,400	ID	14	0.002 (M)	0.011	190	0.0026	34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA
Benzene	mg/L	68	67	11	0.2 (X)	0.005 (A)	35	0.005 (A)	5.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
Bromobenzene	mg/L	ID	ID	12	NA	0.05	390	0.018	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
Bromochloromethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
Bromodichloromethane	mg/L	ID	ID	14	ID	0.08 (A,W)	37	0.08 (A,W)	4.8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
Bromoform	mg/L	ID	ID	140	ID	0.08 (A,W)	3,100 (S)	0.08 (A,W)	470	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
Bromomethane	mg/L	ID	ID	70	0.035	0.029	9	0.01	4	0.002 U	0.001 U	0.001 U	0.001 U	0.002 UJ	0.002 U	0.002 U	0.002 U	0.002 UJ	0.002 U	0.002 U	0.002 U	0.005 U	0.002 U	0.001 U	0.001 U	NA	0.002 U
Carbon Disulfide	mg/L	13	ID	1,200 (S)	ID	2.3	550	0.8	250	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 U
Carbon Tetrachloride	mg/L	ID	96	4.6	0.045 (X)	0.005 (A)	2.4	0.005 (A)	0.37	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
Chlorobenzene	mg/L	160	ID	86	0.025	0.1 (A)	470 (S)	0.1 (A)	210	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
Chloroethane	mg/L	110	ID	440	1.1 (X)	1.7	5,700 (S)	0.43	5,700 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.018	0.016	0.008	0.001	0.021	0.001 U	NA	0.001 U
Chloroform	mg/L	ID	ID	150	0.35	0.08 (A,W)	180	0.08 (A,W)	28	0.002	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
Chloromethane	mg/L	36	210	490	ID	1.1	45	0.26	8.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
cis-1,2-Dichloroethene	mg/L	530	ID	200	0.62	0.07 (A)	210	0.07 (A)	93	0.054	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0056	0.001 U	NA	0.001 U
cis-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 UJ
Cyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.005 U	0.005 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	NA	0.001 U	0.005 U	0.005 U	NA	0.001 U
Dibromochloromethane	mg/L	ID	ID	18	ID	0.08 (A,W)	110	0.08 (A,W)	14	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
Dibromomethane	mg/L	ID	ID	530	NA	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/L	ID	ID	300 (S)	ID	4.8	300 (S)	1.7	220	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
Diethyl ether	mg/L	650	61,000 (S)	35,000	ID	10 (E)	61,000 (S)	3.7 (E)	61,000 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	43	170 (S)	170 (S)	0.018	0.7 (E)	170 (S)	0.7 (E)	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
Hexachloroethane	mg/L	ID	ID	1.9	0.0067 (X)	0.021	50 (S)	0.0073	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA
Iodomethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	29	ID	56 (S)	0.028	2.3	56 (S)	0.8	56 (S)	0.001 U	0.005 U	0.005 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.005 U	NA	0.001 U
m&p-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.002 U	0.002 U	0.002 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U	0.002 U	0.002 U	NA	0.001 U
Methyl acetate	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.01 U	0.005 U	0.005 U	0.005 U	0.01 UJ	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.005 U	0.005 U	NA	0.01 U
Methyl tert-butyl ether	mg/L	ID	ID	610	7.1 (X)	0.69 (E)	47,000 (S)	0.24 (E)	47,000 (S)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 U
Methylcyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.02 U	0.001 U	0.001 U	0.001 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	0.02 U	0.001 U	0.001 U	NA	0.02 U
Methylene Chloride	mg/L	ID	ID	220	1.5 (X)	0.005 (A)	1,400	0.005 (A)	220	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0003 J	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 U
Naphthalene	mg/L	NA	31 (S)	31 (S)	0.011	1.5	31 (S)	0.52	31 (S)	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA
n-Butylbenzene	mg/L	ID	ID	5.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	ID	ID	15	ID	0.23	ID	0.08	ID	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	0.001 U	NA	NA	NA	NA
o-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-09-53 10/20/11	RFI-10-24 02/20/02	RFI-10-24 06/25/02	RFI-10-24 03/26/03	RFI-10-24 10/06/04	RFI-10-24 12/08/05	RFI-10-24 06/28/07	RFI-10-24 10/25/07	RFI-10-24 03/20/08	RFI-10-24 06/17/08	RFI-10-24 09/15/08	RFI-10-24 12/03/08	RFI-10-24 10/14/10	RFI-10-24 10/24/11	RFI-10-26 02/21/02	RFI-10-26 06/20/02	RFI-10-26 03/27/03	RFI-10-26 11/02/06
p-Isopropyltoluene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	ID	ID	4.4	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
Styrene	mg/L	140	310 (S)	9.7	0.08 (X)	0.1 (A)	310 (S)	0.1 (A)	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
tert-Butylbenzene	mg/L	ID	ID	8.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	ID	200 (S)	12	0.06 (X)	0.005 (A)	170	0.005 (A)	25	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
Tetrahydrofuran	mg/L	60	3,600	1,600	11 (X)	0.27	16,000	0.095	6,900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.09 U	NA	NA	NA	NA	NA
Toluene	mg/L	61	ID	530 (S)	0.27	1 (E)	530 (S)	1 (E)	530 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
trans-1,2-Dichloroethene	mg/L	230	ID	220	1.5 (X)	0.1 (A)	200	0.1 (A)	85	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
trans-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ID	1,100 (S)	22	0.2 (X)	0.005 (A)	97	0.005 (A)	15	**0.075 (NDW,RDW)**	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
Trichlorofluoromethane	mg/L	ID	1,100 (S)	1,100 (S)	NA	7.3	1,100 (S)	2.6	1,100 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
Vinyl Chloride	mg/L	33	ID	1	0.013 (X)	0.002 (A)	13	0.002 (A)	1.1	**0.032 (NDW,RDW)**	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
PCB																											
Total PCBs	mg/L	ID	ID	0.0033 (AA)	0.0002 (M	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved																											
Total PCBs (Dissolved)	mg/L	ID	ID	0.0033 (AA)	0.0002 (M)	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																											
Antimony	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0012 U	0.0012 U	NA
Arsenic	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0043	0.0010 U	NA
Barium	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.052	0.13	NA
Beryllium	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00040 U	0.00040 U	NA
Cadmium	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00013 J	0.00028	NA
Chromium Total	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0042	0.0036	NA
Cobalt	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0021	0.0011	NA
Copper	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0064	0.0028	NA
Cyanide (total)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.028	0.0049 J	NA
Lead	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.0048 (NDW,RDW)**	0.00036 J	NA
Manganese	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.14	0.015	NA
Mercury	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.000255	0.0002 U	NA
Nickel	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0071	0.012	NA
Selenium	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0014 U	0.0059	NA
Silver	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00040 UJ	0.00040 U	NA
Thallium	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00018 J	0.00020 U	NA
Vanadium	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.0051 (RDW)**	0.00080 U	NA
Zinc	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.025 UJ	0.011	NA
Inorganic-Dissolved																											
Antimony (Dissolved)	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0072	NA	NA	NA
Mercury (Dissolved)	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-10-26 10/26/07	RFI-10-26 09/15/08	RFI-10-26 10/14/10	RFI-10-26 10/24/11	RFI-10-28 12/12/02	RFI-10-28 10/06/04	RFI-10-28 12/08/05	RFI-10-28 10/25/07	RFI-10-28 03/27/08	RFI-10-28 06/18/08	RFI-10-28 09/17/08	RFI-10-28 12/03/08	RFI-10-29 12/12/02	RFI-10-29 06/30/05	RFI-10-29 12/08/05	RFI-10-29 06/28/07	RFI-10-29 10/25/07	RFI-10-29 03/20/08
VOC																											
1,1,1,2-Tetrachloroethane	mg/L	ID	ID	30	ID	0.32	96	0.077	15	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/L	ID	1,300 (S)	1,300 (S)	0.089	0.2 (A)	1,300 (S)	0.2 (A)	660	0.002	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	ID	ID	4.7	0.078 (X)	0.035	77	0.0085	12	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/L	ID	170 (S)	170 (S)	0.032	170 (S)	170 (S)	170 (S)	170 (S)	0.03 U	0.03 U	NA	0.03 U	0.003 U	0.03 U [0.03 U]	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.003 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
1,1,2-Trichloroethane	mg/L	NA	ID	21	0.33 (X)	0.005 (A)	110	0.005 (A)	17	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	380	ID	2,400	0.74	2.5	2,300	0.88	1,000	0.0002 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	97	140	11	0.13	0.007 (A)	1.3	0.007 (A)	0.2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,3-Trichlorobenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/L	NA	ID	84	NA	0.12	18	0.042	8.3	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/L	NA	300 (S)	19	0.099 (X)	0.07 (A)	300 (S)	0.07 (A)	300 (S)	0.002 U	0.002 U	0.005 U	0.002 U	0.005 U	0.002 U [0.002 U]	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.005 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
1,2,4-Trimethylbenzene	mg/L	56 (S)	ID	56 (S)	0.017	2.9 (E)	56 (S)	1 (E)	56 (S)	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromoethane	mg/L	ID	ID	0.025	0.0057 (X)	0.00005 (A)	15	0.00005 (A)	2.4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	NA	160 (S)	160 (S)	0.013	0.6 (A)	160 (S)	0.6 (A)	160 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	2,500	ID	19	0.36 (X)	0.005 (A)	59	0.005 (A)	9.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	550	2,800 (S)	16	0.23 (X)	0.005 (A)	36	0.005 (A)	16	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	ID	ID	61 (S)	0.045	2.9 (E)	61 (S)	1 (E)	61 (S)	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ID	ID	2	0.028	0.019	41	0.0066	18	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	NA	ID	6.4	0.017	0.075 (A)	74 (S)	0.075 (A)	16	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone	mg/L	ID	240,000 (S)	240,000 (S)	2.2	38	240,000 (S)	13	240,000 (S)	0.02 U	0.02 U	0.03 U	0.02 U	0.011 J	0.03 U [0.03 U]	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.025 U	0.03 U	0.03 U	0.02 U	0.02 U	0.02 U
2-Hexanone	mg/L	NA	ID	5,200	ID	2.9	8,700	1	4,200	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 UJ [0.05 UJ]	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
2-Methylnaphthalene	mg/L	ID	ID	25 (S)	0.019	0.75	25 (S)	0.26	25 (S)	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	ID	20,000 (S)	13,000	ID	5.2	20,000 (S)	1.8	20,000 (S)	0.01 U	0.01 U	0.05 U	0.01 U	0.05 U	0.001 U [0.001 U]	0.001 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.001 U	0.001 U	0.01 U	0.01 U	0.01 U
Acetone	mg/L	15,000	1,000,000 (D)	31,000	1.7	2.1	1,000,000 (D,S)	0.73	1,000,000 (D,S)	0.02 U	0.02 U	0.05 U	0.02 U	0.21 JD	0.03 U [0.03 U]	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.0019 J	0.03 U	0.03 U	0.02 U	0.02 U	0.02 U
Acrylonitrile	mg/L	6,400	ID	14	0.002 (M)	0.011	190	0.0026	34	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	68	67	11	0.2 (X)	0.005 (A)	35	0.005 (A)	5.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromobenzene	mg/L	ID	ID	12	NA	0.05	390	0.018	180	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/L	ID	ID	14	ID	0.08 (A,W)	37	0.08 (A,W)	4.8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	ID	ID	140	ID	0.08 (A,W)	3,100 (S)	0.08 (A,W)	470	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane	mg/L	ID	ID	70	0.035	0.029	9	0.01	4	0.002 U	0.002 U	0.005 U	0.002 U	0.001 UJ	0.002 UJ [0.002 UJ]	0.002 U	0.002 U	0.002 UJ	0.002 UJ	0.002 UJ	0.002 UJ	0.001 UJ	0.002 U	0.002 U	0.002 U	0.002 U	0.002 UJ
Carbon Disulfide	mg/L	13	ID	1,200 (S)	ID	2.3	550	0.8	250	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon Tetrachloride	mg/L	ID	96	4.6	0.045 (X)	0.005 (A)	2.4	0.005 (A)	0.37	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	160	ID	86	0.025	0.1 (A)	470 (S)	0.1 (A)	210	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	110	ID	440	1.1 (X)	1.7	5,700 (S)	0.43	5,700 (S)	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ
Chloroform	mg/L	ID	ID	150	0.35	0.08 (A,W)	180	0.08 (A,W)	28	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane	mg/L	36	210	490	ID	1.1	45	0.26	8.6	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	530	ID	200	0.62	0.07 (A)	210	0.07 (A)	93	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 UJ	NA	0.001 U	0.003 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.003 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	ID	ID	18	ID	0.08 (A,W)	110	0.08 (A,W)	14	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromomethane	mg/L	ID	ID	530	NA	0.23	ID	0.08	ID	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/L	ID	ID	300 (S)	ID	4.8	300 (S)	1.7	220	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U
Diethyl ether	mg/L	650	61,000 (S)	35,000	ID	10 (E)	61,000 (S)	3.7 (E)	61,000 (S)	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	43	170 (S)	170 (S)	0.018	0.7 (E)	170 (S)	0.7 (E)	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Hexachloroethane	mg/L	ID	ID	1.9	0.0067 (X)	0.021	50 (S)	0.0073	27	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	29	ID	56 (S)	0.028	2.3	56 (S)	0.8	56 (S)	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
m&p-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.002 U	0.002 U	0.002 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.0001 J	0.001 U
Methyl acetate	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.01 U	0.01 U	NA	0.01 U	0.003 U	0.01 U [0.01 U]	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.003 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Methyl tert-butyl ether	mg/L	ID	ID	610	7.1 (X)	0.69 (E)	47,000 (S)	0.24 (E)	47,000 (S)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methylcyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.02 U	0.02 U	NA	0.02 U	0.003 U	0.02 U [0.02 U]	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.003 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Methylene Chloride	mg/L	ID	ID	220	1.5 (X)	0.005 (A)	1,400	0.005 (A)	220	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Naphthalene	mg/L	NA	31 (S)	31 (S)	0.011	1.5	31 (S)	0.52	31 (S)	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	ID	ID	5.9	ID	0.23	ID	0.08	ID	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	ID	ID	15	ID	0.23	ID	0.08	ID	NA	NA	0.001 U	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-10-26 10/26/07	RFI-10-26 09/15/08	RFI-10-26 10/14/10	RFI-10-26 10/24/11	RFI-10-28 12/12/02	RFI-10-28 10/06/04	RFI-10-28 12/08/05	RFI-10-28 10/25/07	RFI-10-28 03/27/08	RFI-10-28 06/18/08	RFI-10-28 09/17/08	RFI-10-28 12/03/08	RFI-10-29 12/12/02	RFI-10-29 06/30/05	RFI-10-29 12/08/05	RFI-10-29 06/28/07	RFI-10-29 10/25/07	RFI-10-29 03/20/08
p-Isopropyltoluene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	ID	ID	4.4	ID	0.23	ID	0.08	ID	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	140	310 (S)	9.7	0.08 (X)	0.1 (A)	310 (S)	0.1 (A)	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
tert-Butylbenzene	mg/L	ID	ID	8.9	ID	0.23	ID	0.08	ID	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	ID	200 (S)	12	0.06 (X)	0.005 (A)	170	0.005 (A)	25	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrahydrofuran	mg/L	60	3,600	1,600	11 (X)	0.27	16,000	0.095	6,900	NA	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/L	61	ID	530 (S)	0.27	1 (E)	530 (S)	1 (E)	530 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.0001 J	0.001 U	0.001 U	0.00051 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	230	ID	220	1.5 (X)	0.1 (A)	200	0.1 (A)	85	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ID	1,100 (S)	22	0.2 (X)	0.005 (A)	97	0.005 (A)	15	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane	mg/L	ID	1,100 (S)	1,100 (S)	NA	7.3	1,100 (S)	2.6	1,100 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl Chloride	mg/L	33	ID	1	0.013 (X)	0.002 (A)	13	0.002 (A)	1.1	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
PCB																											
Total PCBs	mg/L	ID	ID	0.0033 (AA)	0.0002 (M	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved																											
Total PCBs (Dissolved)	mg/L	ID	ID	0.0033 (AA)	0.0002 (M)	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																											
Antimony	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	**0.008 (NDW,RDW)**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	0.014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved																											
Antimony (Dissolved)	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-10-29 06/17/08	RFI-10-29 09/17/08	RFI-10-29 12/03/08	RFI-10-29 10/14/10	RFI-10-29 10/24/11	RFI-10-33 06/29/05	RFI-10-33 12/08/05	RFI-10-33 10/25/07	RFI-10-33 03/20/08	RFI-10-33 06/18/08	RFI-10-33 09/17/08	RFI-10-33 12/03/08	RFI-10-33 10/14/10	RFI-10-33 10/24/11	RFI-10-35 06/29/05	RFI-10-35 12/08/05
VOC																									
1,1,1,2-Tetrachloroethane	mg/L	ID	ID	30	ID	0.32	96	0.077	15	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA
1,1,1-Trichloroethane	mg/L	ID	1,300 (S)	1,300 (S)	0.089	0.2 (A)	1,300 (S)	0.2 (A)	660	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.019	0.063	0.076 [0.076]	0.009	0.018	0.025	0.096	0.045	0.018	0.003	0.001
1,1,2,2-Tetrachloroethane	mg/L	ID	ID	4.7	0.078 (X)	0.035	77	0.0085	12	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/L	ID	170 (S)	170 (S)	0.032	170 (S)	170 (S)	170 (S)	170 (S)	0.03 U	0.03 U	0.03 U	NA	0.03 U	0.03 U	0.03 U	0.03 U [0.03 U]	0.03 U	0.03 U	0.03 U	0.03 U	NA	0.03 U	0.03 U	0.03 U
1,1,2-Trichloroethane	mg/L	NA	ID	21	0.33 (X)	0.005 (A)	110	0.005 (A)	17	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	380	ID	2,400	0.74	2.5	2,300	0.88	1,000	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.021	0.06	0.068 [0.073]	0.005	0.012	0.021	0.067	0.029	0.009	0.015	0.031
1,1-Dichloroethene	mg/L	97	140	11	0.13	0.007 (A)	1.3	0.007 (A)	0.2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.004	**0.01 (NDW,RDW)**	**0.011 (NDW,RDW) [0.012 (NDW,RDW)]**	0.001	0.003	0.004	**0.015 (NDW,RDW)**	0.006	0.002	0.001	0.002
1,2,3-Trichlorobenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA
1,2,3-Trichloropropane	mg/L	NA	ID	84	NA	0.12	18	0.042	8.3	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA
1,2,3-Trimethylbenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA
1,2,4-Trichlorobenzene	mg/L	NA	300 (S)	19	0.099 (X)	0.07 (A)	300 (S)	0.07 (A)	300 (S)	0.002 U	0.002 U	0.002 U	0.005 U	0.002 U	0.002 U	0.002 U	0.002 U [0.002 U]	0.002 U	0.002 U	0.002 U	0.002 U	0.005 U	0.002 U	0.002 U	0.002 U
1,2,4-Trimethylbenzene	mg/L	56 (S)	ID	56 (S)	0.017	2.9 (E)	56 (S)	1 (E)	56 (S)	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U
1,2-Dibromoethane	mg/L	ID	ID	0.025	0.0057 (X)	0.00005 (A)	15	0.00005 (A)	2.4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	NA	160 (S)	160 (S)	0.013	0.6 (A)	160 (S)	0.6 (A)	160 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	2,500	ID	19	0.36 (X)	0.005 (A)	59	0.005 (A)	9.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	550	2,800 (S)	16	0.23 (X)	0.005 (A)	36	0.005 (A)	16	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	ID	ID	61 (S)	0.045	2.9 (E)	61 (S)	1 (E)	61 (S)	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ID	ID	2	0.028	0.019	41	0.0066	18	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	NA	ID	6.4	0.017	0.075 (A)	74 (S)	0.075 (A)	16	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone	mg/L	ID	240,000 (S)	240,000 (S)	2.2	38	240,000 (S)	13	240,000 (S)	0.02 U	0.02 U	0.02 UJ	0.03 U	0.02 U	0.03 U	0.03 U	0.02 U [0.02 U]	0.02 U	0.02 U	0.02 U	0.02 UJ	0.03 U	0.02 U	0.03 U	0.03 U
2-Hexanone	mg/L	NA	ID	5,200	ID	2.9	8,700	1	4,200	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U [0.05 U]	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U
2-Methylnaphthalene	mg/L	ID	ID	25 (S)	0.019	0.75	25 (S)	0.26	25 (S)	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA
4-Methyl-2-pentanone	mg/L	ID	20,000 (S)	13,000	ID	5.2	20,000 (S)	1.8	20,000 (S)	0.01 U	0.01 U	0.01 U	0.05 U	0.01 U	0.001 U	0.001 U	0.01 U [0.01 U]	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.01 U	0.001 U	0.001 U
Acetone	mg/L	15,000	1,000,000 (D)	31,000	1.7	2.1	1,000,000 (D,S)	0.73	1,000,000 (D,S)	0.02 U	0.02 U	0.02 UJ	0.05 U	0.02 U	0.03 U	0.03 U	0.02 U [0.02 U]	0.02 U	0.02 U	0.02 U	0.02 UJ	0.05 U	0.02 U	0.03 U	0.03 U
Acrylonitrile	mg/L	6,400	ID	14	0.002 (M)	0.011	190	0.0026	34	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA
Benzene	mg/L	68	67	11	0.2 (X)	0.005 (A)	35	0.005 (A)	5.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromobenzene	mg/L	ID	ID	12	NA	0.05	390	0.018	180	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA
Bromochloromethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA
Bromodichloromethane	mg/L	ID	ID	14	ID	0.08 (A,W)	37	0.08 (A,W)	4.8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	ID	ID	140	ID	0.08 (A,W)	3,100 (S)	0.08 (A,W)	470	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane	mg/L	ID	ID	70	0.035	0.029	9	0.01	4	0.002 U	0.002 UJ	0.002 U	0.005 U	0.002 U	0.002 U	0.002 U	0.002 U [0.002 U]	0.002 UJ	0.002 UJ	0.002 UJ	0.002 U	0.005 U	0.002 U	0.002 U	0.002 U
Carbon Disulfide	mg/L	13	ID	1,200 (S)	ID	2.3	550	0.8	250	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon Tetrachloride	mg/L	ID	96	4.6	0.045 (X)	0.005 (A)	2.4	0.005 (A)	0.37	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	160	ID	86	0.025	0.1 (A)	470 (S)	0.1 (A)	210	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	110	ID	440	1.1 (X)	1.7	5,700 (S)	0.43	5,700 (S)	0.001 U	0.001 UJ	0.001 U	0.005 U	0.001 U	0.004	0.005	0.003 [0.004]	0.001 UJ	0.001 UJ	0.001 J	0.003	0.005 U	0.001 U	0.001 U	0.001 U
Chloroform	mg/L	ID	ID	150	0.35	0.08 (A,W)	180	0.08 (A,W)	28	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane	mg/L	36	210	490	ID	1.1	45	0.26	8.6	0.001 UJ	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	530	ID	200	0.62	0.07 (A)	210	0.07 (A)	93	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0004 J [0.0004 J]	0.001 U	0.001 U	0.001 U	0.0006 J	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	ID	ID	18	ID	0.08 (A,W)	110	0.08 (A,W)	14	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U
Dibromomethane	mg/L	ID	ID	530	NA	0.23	ID	0.08	ID	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA
Dichlorodifluoromethane	mg/L	ID	ID	300 (S)	ID	4.8	300 (S)	1.7	220	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 UJ	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 UJ	0.001 U
Diethyl ether	mg/L	650	61,000 (S)	35,000	ID	10 (E)	61,000 (S)	3.7 (E)	61,000 (S)	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA
Ethylbenzene	mg/L	43	170 (S)	170 (S)	0.018	0.7 (E)	170 (S)	0.7 (E)	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Hexachloroethane	mg/L	ID	ID	1.9	0.0067 (X)	0.021	50 (S)	0.0073	27	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA
Iodomethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA
Isopropylbenzene	mg/L	29	ID	56 (S)	0.028	2.3	56 (S)	0.8	56 (S)	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U
m&p-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U	0.001 U	0.001 U
Methyl acetate	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.01 U [0.01 U]	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U
Methyl tert-butyl ether	mg/L	ID	ID	610	7.1 (X)	0.69 (E)	47,000 (S)	0.24 (E)	47,000 (S)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methylcyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.02 U	0.02 U	0.02 U	NA	0.02 U	0.02 U	0.02 U	0.02 U [0.02 U]	0.02 U	0.02 U	0.02 U	0.02 U	NA	0.02 U	0.02 U	0.02 U
Methylene Chloride	mg/L	ID	ID	220	1.5 (X)	0.005 (A)	1,400	0.005 (A)	220	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Naphthalene	mg/L	NA	31 (S)	31 (S)	0.011	1.5	31 (S)	0.52	31 (S)	NA	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U	NA	NA
n-Butylbenzene	mg/L	ID	ID	5.9	ID	0.23	ID	0.08	ID	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA
n-Propylbenzene	mg/L	ID	ID	15	ID	0.23	ID	0.08	ID	NA	NA	NA	0.001 U	0.001 U	NA	NA	NA	NA	NA	NA	NA	0.001 U	0.001 U	NA	NA
o-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-10-29 06/17/08	RFI-10-29 09/17/08	RFI-10-29 12/03/08	RFI-10-29 10/14/10	RFI-10-29 10/24/11	RFI-10-33 06/29/05	RFI-10-33 12/08/05	RFI-10-33 10/25/07	RFI-10-33 03/20/08	RFI-10-33 06/18/08	RFI-10-33 09/17/08	RFI-10-33 12/03/08	RFI-10-33 10/14/10	RFI-10-33 10/24/11	RFI-10-35 06/29/05	RFI-10-35 12/08/05
p-Isopropyltoluene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA
sec-Butylbenzene	mg/L	ID	ID	4.4	ID	0.23	ID	0.08	ID	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA
Styrene	mg/L	140	310 (S)	9.7	0.08 (X)	0.1 (A)	310 (S)	0.1 (A)	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
tert-Butylbenzene	mg/L	ID	ID	8.9	ID	0.23	ID	0.08	ID	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA
Tetrachloroethene	mg/L	ID	200 (S)	12	0.06 (X)	0.005 (A)	170	0.005 (A)	25	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrahydrofuran	mg/L	60	3,600	1,600	11 (X)	0.27	16,000	0.095	6,900	NA	NA	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	0.09 U	NA	NA	NA
Toluene	mg/L	61	ID	530 (S)	0.27	1 (E)	530 (S)	1 (E)	530 (S)	0.0001 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	230	ID	220	1.5 (X)	0.1 (A)	200	0.1 (A)	85	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA
Trichloroethene	mg/L	ID	1,100 (S)	22	0.2 (X)	0.005 (A)	97	0.005 (A)	15	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane	mg/L	ID	1,100 (S)	1,100 (S)	NA	7.3	1,100 (S)	2.6	1,100 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl Chloride	mg/L	33	ID	1	0.013 (X)	0.002 (A)	13	0.002 (A)	1.1	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
PCB																									
Total PCBs	mg/L	ID	ID	0.0033 (AA)	0.0002 (M	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved																									
Total PCBs (Dissolved)	mg/L	ID	ID	0.0033 (AA)	0.0002 (M)	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																									
Antimony	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved																									
Antimony (Dissolved)	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-10-35 06/28/07	RFI-10-35 10/25/07	RFI-10-35 03/27/08	RFI-10-35 06/17/08	RFI-10-35 09/17/08	RFI-10-35 12/03/08	RFI-10-35 10/14/10	RFI-10-35 10/24/11	RFI-10-36 06/29/05	RFI-10-36 12/08/05	RFI-10-36 06/28/07	RFI-10-36 10/25/07	RFI-10-36 03/20/08	RFI-10-36 06/17/08	RFI-10-36 09/15/08	RFI-10-36 12/03/08	RFI-10-36 10/14/10	RFI-12-42 10/27/11
VOC																											
1,1,1,2-Tetrachloroethane	mg/L	ID	ID	30	ID	0.32	96	0.077	15	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U [0.001 U]	NA
1,1,1-Trichloroethane	mg/L	ID	1,300 (S)	1,300 (S)	0.089	0.2 (A)	1,300 (S)	0.2 (A)	660	0.0002 J	0.0006 J	0.0009 J [0.0007 J]	0.002	0.006	0.013	0.012	0.011	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	ID	ID	4.7	0.078 (X)	0.035	77	0.0085	12	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/L	ID	170 (S)	170 (S)	0.032	170 (S)	170 (S)	170 (S)	170 (S)	0.03 U	0.03 U	0.03 U [0.03 U]	0.03 U	0.03 U	0.03 U	NA	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	NA	0.03 U
1,1,2-Trichloroethane	mg/L	NA	ID	21	0.33 (X)	0.005 (A)	110	0.005 (A)	17	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
1,1-Dichloroethane	mg/L	380	ID	2,400	0.74	2.5	2,300	0.88	1,000	0.029	0.038	0.036 [0.035]	0.029	0.045	0.048	0.021	0.008	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.017 [0.016]	0.001 U
1,1-Dichloroethene	mg/L	97	140	11	0.13	0.007 (A)	1.3	0.007 (A)	0.2	0.002	0.004	0.003 [0.003]	0.003	0.004	0.005	0.003	0.002	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
1,2,3-Trichlorobenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U [0.005 U]	NA
1,2,3-Trichloropropane	mg/L	NA	ID	84	NA	0.12	18	0.042	8.3	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U [0.001 U]	NA
1,2,3-Trimethylbenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U [0.001 U]	NA
1,2,4-Trichlorobenzene	mg/L	NA	300 (S)	19	0.099 (X)	0.07 (A)	300 (S)	0.07 (A)	300 (S)	0.002 U	0.002 U	0.002 U [0.002 U]	0.002 U	0.002 U	0.002 U	0.005 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.005 U [0.005 U]	0.002 U
1,2,4-Trimethylbenzene	mg/L	56 (S)	ID	56 (S)	0.017	2.9 (E)	56 (S)	1 (E)	56 (S)	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U [0.001 U]	NA
1,2-Dibromo-3-chloropropane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U [0.005 U]	0.001 U
1,2-Dibromoethane	mg/L	ID	ID	0.025	0.0057 (X)	0.00005 (A)	15	0.00005 (A)	2.4	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
1,2-Dichlorobenzene	mg/L	NA	160 (S)	160 (S)	0.013	0.6 (A)	160 (S)	0.6 (A)	160 (S)	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
1,2-Dichloroethane	mg/L	2,500	ID	19	0.36 (X)	0.005 (A)	59	0.005 (A)	9.6	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
1,2-Dichloropropane	mg/L	550	2,800 (S)	16	0.23 (X)	0.005 (A)	36	0.005 (A)	16	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
1,3,5-Trimethylbenzene	mg/L	ID	ID	61 (S)	0.045	2.9 (E)	61 (S)	1 (E)	61 (S)	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U [0.001 U]	NA
1,3-Dichlorobenzene	mg/L	ID	ID	2	0.028	0.019	41	0.0066	18	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
1,4-Dichlorobenzene	mg/L	NA	ID	6.4	0.017	0.075 (A)	74 (S)	0.075 (A)	16	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
2-Butanone	mg/L	ID	240,000 (S)	240,000 (S)	2.2	38	240,000 (S)	13	240,000 (S)	0.02 U	0.02 U	0.02 U [0.02 U]	0.02 U	0.02 U	0.02 UJ	0.03 U	0.02 U	0.03 U	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.03 U [0.03 U]	0.02 U
2-Hexanone	mg/L	NA	ID	5,200	ID	2.9	8,700	1	4,200	0.05 U	0.05 U	0.05 U [0.05 U]	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U [0.05 U]	0.05 U
2-Methylnaphthalene	mg/L	ID	ID	25 (S)	0.019	0.75	25 (S)	0.26	25 (S)	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U [0.005 U]	NA
4-Methyl-2-pentanone	mg/L	ID	20,000 (S)	13,000	ID	5.2	20,000 (S)	1.8	20,000 (S)	0.01 U	0.01 U	0.01 U [0.01 U]	0.01 U	0.01 U	0.01 U	0.05 U	0.01 U	0.001 U	0.001 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U [0.05 U]	0.01 U
Acetone	mg/L	15,000	1,000,000 (D)	31,000	1.7	2.1	1,000,000 (D,S)	0.73	1,000,000 (D,S)	0.02 U	0.02 U	0.02 U [0.02 U]	0.02 U	0.02 U	0.02 UJ	0.05 U	0.02 U	0.03 U	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.05 U [0.05 U]	0.02 U
Acrylonitrile	mg/L	6,400	ID	14	0.002 (M)	0.011	190	0.0026	34	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U [0.002 U]	NA
Benzene	mg/L	68	67	11	0.2 (X)	0.005 (A)	35	0.005 (A)	5.6	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Bromobenzene	mg/L	ID	ID	12	NA	0.05	390	0.018	180	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U [0.001 U]	NA
Bromochloromethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U [0.001 U]	NA
Bromodichloromethane	mg/L	ID	ID	14	ID	0.08 (A,W)	37	0.08 (A,W)	4.8	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Bromoform	mg/L	ID	ID	140	ID	0.08 (A,W)	3,100 (S)	0.08 (A,W)	470	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Bromomethane	mg/L	ID	ID	70	0.035	0.029	9	0.01	4	0.002 U	0.002 U	0.002 UJ [0.002 UJ]	0.002 U	0.002 UJ	0.002 U	0.005 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 UJ	0.002 U	0.002 U	0.002 U	0.005 U [0.005 U]	0.002 U
Carbon Disulfide	mg/L	13	ID	1,200 (S)	ID	2.3	550	0.8	250	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U
Carbon Tetrachloride	mg/L	ID	96	4.6	0.045 (X)	0.005 (A)	2.4	0.005 (A)	0.37	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Chlorobenzene	mg/L	160	ID	86	0.025	0.1 (A)	470 (S)	0.1 (A)	210	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Chloroethane	mg/L	110	ID	440	1.1 (X)	1.7	5,700 (S)	0.43	5,700 (S)	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 UJ	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.009	0.001 UJ	0.001 U	0.004	0.001 U	0.023 [0.015]	0.001 U
Chloroform	mg/L	ID	ID	150	0.35	0.08 (A,W)	180	0.08 (A,W)	28	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Chloromethane	mg/L	36	210	490	ID	1.1	45	0.26	8.6	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 UJ	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.005 U [0.005 U]	0.001 U
cis-1,2-Dichloroethene	mg/L	530	ID	200	0.62	0.07 (A)	210	0.07 (A)	93	0.001 U	0.001 U	0.0002 J [0.0002 J]	0.001 U	0.0002 J	0.0005 J	0.001	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
cis-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Cyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	NA	0.001 U
Dibromochloromethane	mg/L	ID	ID	18	ID	0.08 (A,W)	110	0.08 (A,W)	14	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U [0.005 U]	0.001 U
Dibromomethane	mg/L	ID	ID	530	NA	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U [0.005 U]	NA
Dichlorodifluoromethane	mg/L	ID	ID	300 (S)	ID	4.8	300 (S)	1.7	220	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U [0.005 U]	0.001 U
Diethyl ether	mg/L	650	61,000 (S)	35,000	ID	10 (E)	61,000 (S)	3.7 (E)	61,000 (S)	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U [0.01 U]	NA
Ethylbenzene	mg/L	43	170 (S)	170 (S)	0.018	0.7 (E)	170 (S)	0.7 (E)	110	0.0001 J	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Hexachloroethane	mg/L	ID	ID	1.9	0.0067 (X)	0.021	50 (S)	0.0073	27	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U [0.005 U]	NA
Iodomethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U [0.001 U]	NA
Isopropylbenzene	mg/L	29	ID	56 (S)	0.028	2.3	56 (S)	0.8	56 (S)	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U [0.005 U]	0.001 U
m&p-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.0001 J	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U	0.001 U	0.001 U	0.0001 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U [0.002 U]	0.002 U
Methyl acetate	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.01 U	0.01 U	0.01 U [0.01 U]	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U
Methyl tert-butyl ether	mg/L	ID	ID	610	7.1 (X)	0.69 (E)	47,000 (S)	0.24 (E)	47,000 (S)	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U
Methylcyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.02 U	0.02 U	0.02 U [0.02 U]	0.02 U	0.02 U	0.02 U	NA	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	0.02 U
Methylene Chloride	mg/L	ID	ID	220	1.5 (X)	0.005 (A)	1,400	0.005 (A)	220	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U
Naphthalene	mg/L	NA	31 (S)	31 (S)	0.011	1.5	31 (S)	0.52	31 (S)	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U [0.005 U]	0.026
n-Butylbenzene	mg/L	ID	ID	5.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U [0.001 U]	NA
n-Propylbenzene	mg/L	ID	ID	15	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	0.001 U	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U [0.001 U]	0.001 U
o-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-10-35 06/28/07	RFI-10-35 10/25/07	RFI-10-35 03/27/08	RFI-10-35 06/17/08	RFI-10-35 09/17/08	RFI-10-35 12/03/08	RFI-10-35 10/14/10	RFI-10-35 10/24/11	RFI-10-36 06/29/05	RFI-10-36 12/08/05	RFI-10-36 06/28/07	RFI-10-36 10/25/07	RFI-10-36 03/20/08	RFI-10-36 06/17/08	RFI-10-36 09/15/08	RFI-10-36 12/03/08	RFI-10-36 10/14/10	RFI-12-42 10/27/11
p-Isopropyltoluene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U [0.005 U]	NA
sec-Butylbenzene	mg/L	ID	ID	4.4	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U [0.001 U]	NA
Styrene	mg/L	140	310 (S)	9.7	0.08 (X)	0.1 (A)	310 (S)	0.1 (A)	170	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
tert-Butylbenzene	mg/L	ID	ID	8.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U [0.001 U]	NA
Tetrachloroethene	mg/L	ID	200 (S)	12	0.06 (X)	0.005 (A)	170	0.005 (A)	25	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Tetrahydrofuran	mg/L	60	3,600	1,600	11 (X)	0.27	16,000	0.095	6,900	NA	NA	NA	NA	NA	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.09 U [0.09 U]	NA
Toluene	mg/L	61	ID	530 (S)	0.27	1 (E)	530 (S)	1 (E)	530 (S)	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
trans-1,2-Dichloroethene	mg/L	230	ID	220	1.5 (X)	0.1 (A)	200	0.1 (A)	85	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
trans-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U [0.001 U]	NA
Trichloroethene	mg/L	ID	1,100 (S)	22	0.2 (X)	0.005 (A)	97	0.005 (A)	15	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Trichlorofluoromethane	mg/L	ID	1,100 (S)	1,100 (S)	NA	7.3	1,100 (S)	2.6	1,100 (S)	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Vinyl Chloride	mg/L	33	ID	1	0.013 (X)	0.002 (A)	13	0.002 (A)	1.1	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
PCB																											
Total PCBs	mg/L	ID	ID	0.0033 (AA)	0.0002 (M	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved																											
Total PCBs (Dissolved)	mg/L	ID	ID	0.0033 (AA)	0.0002 (M)	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																											
Antimony	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved																											
Antimony (Dissolved)	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-17-02 10/03/01	RFI-17-02 06/25/02	RFI-17-02 04/02/03	RFI-17-02 10/05/04	RFI-17-02 06/09/05	RFI-17-02 12/08/05	RFI-17-02 11/01/06	RFI-17-02 04/24/07	RFI-17-02 06/26/07	RFI-17-02 10/26/07	RFI-17-02 03/18/08	RFI-17-02 06/17/08	RFI-17-02 09/10/08	RFI-17-02 12/04/08	RFI-17-02 10/19/10	RFI-17-02 10/21/11	RFI-17-02D 07/29/05
VOC																										
1,1,1,2-Tetrachloroethane	mg/L	ID	ID	30	ID	0.32	96	0.077	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA
1,1,1-Trichloroethane	mg/L	ID	1,300 (S)	1,300 (S)	0.089	0.2 (A)	1,300 (S)	0.2 (A)	660	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	ID	ID	4.7	0.078 (X)	0.035	77	0.0085	12	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/L	ID	170 (S)	170 (S)	0.032	170 (S)	170 (S)	170 (S)	170 (S)	0.001 U	NA	NA	NA	0.03 U	0.03 U	0.03 U	0.03 U	0.03 UJ	0.03 U	0.03 U	0.03 U [0.03 U]	0.03 U	0.03 U	NA	0.03 U	0.03 U
1,1,2-Trichloroethane	mg/L	NA	ID	21	0.33 (X)	0.005 (A)	110	0.005 (A)	17	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	380	ID	2,400	0.74	2.5	2,300	0.88	1,000	0.001 U	NA	NA	NA	0.002	0.002	0.002	0.001	0.001 J	0.0008 J	0.0007 J	0.0008 J [0.0008 J]	0.0008 J	0.0007 J	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	97	140	11	0.13	0.007 (A)	1.3	0.007 (A)	0.2	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,3-Trichlorobenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA
1,2,3-Trichloropropane	mg/L	NA	ID	84	NA	0.12	18	0.042	8.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA
1,2,3-Trimethylbenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA
1,2,4-Trichlorobenzene	mg/L	NA	300 (S)	19	0.099 (X)	0.07 (A)	300 (S)	0.07 (A)	300 (S)	0.005 U	NA	NA	NA	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 UJ	0.002 U [0.002 U]	0.002 U	0.002 U	0.005 U	0.002 U	0.002 U
1,2,4-Trimethylbenzene	mg/L	56 (S)	ID	56 (S)	0.017	2.9 (E)	56 (S)	1 (E)	56 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U
1,2-Dibromoethane	mg/L	ID	ID	0.025	0.0057 (X)	0.00005 (A)	15	0.00005 (A)	2.4	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	NA	160 (S)	160 (S)	0.013	0.6 (A)	160 (S)	0.6 (A)	160 (S)	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	2,500	ID	19	0.36 (X)	0.005 (A)	59	0.005 (A)	9.6	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	550	2,800 (S)	16	0.23 (X)	0.005 (A)	36	0.005 (A)	16	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	ID	ID	61 (S)	0.045	2.9 (E)	61 (S)	1 (E)	61 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA
1,3-Dichlorobenzene	mg/L	ID	ID	2	0.028	0.019	41	0.0066	18	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	NA	ID	6.4	0.017	0.075 (A)	74 (S)	0.075 (A)	16	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone	mg/L	ID	240,000 (S)	240,000 (S)	2.2	38	240,000 (S)	13	240,000 (S)	0.025 U	NA	NA	NA	0.03 U	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U [0.02 U]	0.02 U	0.02 U	0.03 U	0.02 U	0.03 U
2-Hexanone	mg/L	NA	ID	5,200	ID	2.9	8,700	1	4,200	0.05 U	NA	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U [0.05 U]	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U
2-Methylnaphthalene	mg/L	ID	ID	25 (S)	0.019	0.75	25 (S)	0.26	25 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA
4-Methyl-2-pentanone	mg/L	ID	20,000 (S)	13,000	ID	5.2	20,000 (S)	1.8	20,000 (S)	0.05 U	NA	NA	NA	0.001 U	0.001 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U [0.01 U]	0.01 U	0.01 U	0.05 U	0.01 U	0.001 U
Acetone	mg/L	15,000	1,000,000 (D)	31,000	1.7	2.1	1,000,000 (D,S)	0.73	1,000,000 (D,S)	0.025 U	NA	NA	NA	0.03 U	0.03 U	0.02 U	0.02 UJ	R	0.02 U	0.02 U	0.02 U [0.02 U]	0.02 U	0.02 UJ	0.05 U	0.02 U	0.03 U
Acrylonitrile	mg/L	6,400	ID	14	0.002 (M)	0.011	190	0.0026	34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA
Benzene	mg/L	68	67	11	0.2 (X)	0.005 (A)	35	0.005 (A)	5.6	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromobenzene	mg/L	ID	ID	12	NA	0.05	390	0.018	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA
Bromochloromethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA
Bromodichloromethane	mg/L	ID	ID	14	ID	0.08 (A,W)	37	0.08 (A,W)	4.8	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	ID	ID	140	ID	0.08 (A,W)	3,100 (S)	0.08 (A,W)	470	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane	mg/L	ID	ID	70	0.035	0.029	9	0.01	4	0.001 U	NA	NA	NA	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U [0.002 U]	0.002 U	0.002 U	0.005 U	0.002 U	0.002 U
Carbon Disulfide	mg/L	13	ID	1,200 (S)	ID	2.3	550	0.8	250	0.005 U	NA	NA	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon Tetrachloride	mg/L	ID	96	4.6	0.045 (X)	0.005 (A)	2.4	0.005 (A)	0.37	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	160	ID	86	0.025	0.1 (A)	470 (S)	0.1 (A)	210	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	110	ID	440	1.1 (X)	1.7	5,700 (S)	0.43	5,700 (S)	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U
Chloroform	mg/L	ID	ID	150	0.35	0.08 (A,W)	180	0.08 (A,W)	28	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane	mg/L	36	210	490	ID	1.1	45	0.26	8.6	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	530	ID	200	0.62	0.07 (A)	210	0.07 (A)	93	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0001 J	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.003
cis-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.005 U	NA	NA	NA	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 UJ	0.001 U	NA	0.001 U	0.001 UJ
Dibromochloromethane	mg/L	ID	ID	18	ID	0.08 (A,W)	110	0.08 (A,W)	14	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U
Dibromomethane	mg/L	ID	ID	530	NA	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA
Dichlorodifluoromethane	mg/L	ID	ID	300 (S)	ID	4.8	300 (S)	1.7	220	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	R	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 UJ	0.001 U	0.005 U	0.001 U	0.001 U
Diethyl ether	mg/L	650	61,000 (S)	35,000	ID	10 (E)	61,000 (S)	3.7 (E)	61,000 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA
Ethylbenzene	mg/L	43	170 (S)	170 (S)	0.018	0.7 (E)	170 (S)	0.7 (E)	110	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Hexachloroethane	mg/L	ID	ID	1.9	0.0067 (X)	0.021	50 (S)	0.0073	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA
Iodomethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA
Isopropylbenzene	mg/L	29	ID	56 (S)	0.028	2.3	56 (S)	0.8	56 (S)	0.005 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U
m&p-Xylene	mg/L	- -	- -	- -	- -	- - -	- -	- -	- - -	0.002 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.0001 J	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.002 U	0.002 U	0.001 U
Methyl acetate	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.005 U	NA	NA	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U [0.01 U]	0.01 U	0.01 U	NA	0.01 U	0.01 U
Methyl tert-butyl ether	mg/L	ID	ID	610	7.1 (X)	0.69 (E)	47,000 (S)	0.24 (E)	47,000 (S)	0.005 U	NA	NA	NA	0.003 J	0.004 J	0.003 J	0.002 J	0.002 J	0.001 J	0.001 J	0.0004 J [0.0004 J]	0.0003 J	0.0003 J	0.005 U	0.005 U	0.003 J
Methylcyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	NA	NA	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 U [0.02 U]	0.02 U	0.02 U	NA	0.02 U	0.02 U
Methylene Chloride	mg/L	ID	ID	220	1.5 (X)	0.005 (A)	1,400	0.005 (A)	220	0.005 U	NA	NA	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Naphthalene	mg/L	NA	31 (S)	31 (S)	0.011	1.5	31 (S)	0.52	31 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U	NA
n-Butylbenzene	mg/L	ID	ID	5.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA
n-Propylbenzene	mg/L	ID	ID	15	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	0.001 U	NA
o-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-17-02 10/03/01	RFI-17-02 06/25/02	RFI-17-02 04/02/03	RFI-17-02 10/05/04	RFI-17-02 06/09/05	RFI-17-02 12/08/05	RFI-17-02 11/01/06	RFI-17-02 04/24/07	RFI-17-02 06/26/07	RFI-17-02 10/26/07	RFI-17-02 03/18/08	RFI-17-02 06/17/08	RFI-17-02 09/10/08	RFI-17-02 12/04/08	RFI-17-02 10/19/10	RFI-17-02 10/21/11	RFI-17-02D 07/29/05
p-Isopropyltoluene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA
sec-Butylbenzene	mg/L	ID	ID	4.4	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA
Styrene	mg/L	140	310 (S)	9.7	0.08 (X)	0.1 (A)	310 (S)	0.1 (A)	170	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
tert-Butylbenzene	mg/L	ID	ID	8.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA
Tetrachloroethene	mg/L	ID	200 (S)	12	0.06 (X)	0.005 (A)	170	0.005 (A)	25	0.001 UJ	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrahydrofuran	mg/L	60	3,600	1,600	11 (X)	0.27	16,000	0.095	6,900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.09 U	NA	NA
Toluene	mg/L	61	ID	530 (S)	0.27	1 (E)	530 (S)	1 (E)	530 (S)	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	230	ID	220	1.5 (X)	0.1 (A)	200	0.1 (A)	85	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA
Trichloroethene	mg/L	ID	1,100 (S)	22	0.2 (X)	0.005 (A)	97	0.005 (A)	15	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane	mg/L	ID	1,100 (S)	1,100 (S)	NA	7.3	1,100 (S)	2.6	1,100 (S)	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl Chloride	mg/L	33	ID	1	0.013 (X)	0.002 (A)	13	0.002 (A)	1.1	0.001 U	NA	NA	NA	0.001 U	0.001 U	0.0009 J	0.001 U	0.001 UJ	0.001 U	0.0006 J	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	**0.003 (NDW,RDW)**
PCB																										
Total PCBs	mg/L	ID	ID	0.0033 (AA)	0.0002 (M	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	0.0001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved																										
Total PCBs (Dissolved)	mg/L	ID	ID	0.0033 (AA)	0.0002 (M)	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	0.0001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																										
Antimony	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	0.0012 U	0.0012 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	**0.027(GSI,NDW,RDW)**	0.0058	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	0.093	0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	0.00040 U	0.00040 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	0.000062 J	0.00020 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	0.0026	0.0012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	0.0012	0.00056	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	0.0033	0.0063	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	0.0011 J	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	0.0020	0.00077	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	0.085	0.016 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	0.0002 U	0.0002 U	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	0.0038	0.0079	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	0.0032	0.0019 J	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U	NA
Silver	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	0.00040 UJ	0.00040 U	0.0005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	0.00020 U	0.00020 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	0.0038	0.00056 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	0.012	0.013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved																										
Antimony (Dissolved)	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	0.0012 U	0.0043	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	0.0014 J	0.0017 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	R	0.081	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	0.00040 UJ	0.00040 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	0.00020 U	0.00020 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	0.00060 UJ	0.00089	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	0.00020 U	0.00023	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	0.0012 J	0.0014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	0.0016 J	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	0.00040 U	0.00040 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	0.071	0.039 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	0.0002 U	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	0.0025	0.0021	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	0.0030	0.0038	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	0.00040 UJ	0.00040 UJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	0.00020 U	0.00020 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	0.00080 U	0.00080 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	0.0099 J	0.0066	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-17-02D 12/08/05	RFI-17-02D 11/01/06	RFI-17-02D 04/24/07	RFI-17-02D 06/27/07	RFI-17-02D 10/26/07	RFI-17-02D 03/18/08	RFI-17-02D 06/17/08	RFI-17-02D 09/10/08	RFI-17-02D 12/04/08	RFI-17-02D 09/22/09	RFI-17-02D 10/21/11
VOC																				
1,1,1,2-Tetrachloroethane	mg/L	ID	ID	30	ID	0.32	96	0.077	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/L	ID	1,300 (S)	1,300 (S)	0.089	0.2 (A)	1,300 (S)	0.2 (A)	660	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	ID	ID	4.7	0.078 (X)	0.035	77	0.0085	12	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/L	ID	170 (S)	170 (S)	0.032	170 (S)	170 (S)	170 (S)	170 (S)	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U [0.03 U]	0.03 U	0.03 U [0.03 U]	0.03 U
1,1,2-Trichloroethane	mg/L	NA	ID	21	0.33 (X)	0.005 (A)	110	0.005 (A)	17	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U
1,1-Dichloroethane	mg/L	380	ID	2,400	0.74	2.5	2,300	0.88	1,000	0.001 U	0.001 U	0.001 U	0.0002 J	0.0003 J	0.0005 J	0.0008 J	0.0009 J [0.001 J]	0.0009 J	0.001 [0.001]	0.001 U
1,1-Dichloroethene	mg/L	97	140	11	0.13	0.007 (A)	1.3	0.007 (A)	0.2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U
1,2,3-Trichlorobenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/L	NA	ID	84	NA	0.12	18	0.042	8.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/L	NA	300 (S)	19	0.099 (X)	0.07 (A)	300 (S)	0.07 (A)	300 (S)	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 UJ	0.002 U	0.002 U [0.002 U]	0.002 U	0.002 U [0.002 U]	0.002 U
1,2,4-Trimethylbenzene	mg/L	56 (S)	ID	56 (S)	0.017	2.9 (E)	56 (S)	1 (E)	56 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U
1,2-Dibromoethane	mg/L	ID	ID	0.025	0.0057 (X)	0.00005 (A)	15	0.00005 (A)	2.4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U
1,2-Dichlorobenzene	mg/L	NA	160 (S)	160 (S)	0.013	0.6 (A)	160 (S)	0.6 (A)	160 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U
1,2-Dichloroethane	mg/L	2,500	ID	19	0.36 (X)	0.005 (A)	59	0.005 (A)	9.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U
1,2-Dichloropropane	mg/L	550	2,800 (S)	16	0.23 (X)	0.005 (A)	36	0.005 (A)	16	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U
1,3,5-Trimethylbenzene	mg/L	ID	ID	61 (S)	0.045	2.9 (E)	61 (S)	1 (E)	61 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ID	ID	2	0.028	0.019	41	0.0066	18	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.0003 [0.0003]	0.001 U
1,4-Dichlorobenzene	mg/L	NA	ID	6.4	0.017	0.075 (A)	74 (S)	0.075 (A)	16	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U
2-Butanone	mg/L	ID	240,000 (S)	240,000 (S)	2.2	38	240,000 (S)	13	240,000 (S)	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U [0.02 U]	0.02 U	0.02 U [0.02 U]	0.02 U
2-Hexanone	mg/L	NA	ID	5,200	ID	2.9	8,700	1	4,200	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ [0.05 UJ]	0.05 UJ	0.05 U [0.05 U]	0.05 U
2-Methylnaphthalene	mg/L	ID	ID	25 (S)	0.019	0.75	25 (S)	0.26	25 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	ID	20,000 (S)	13,000	ID	5.2	20,000 (S)	1.8	20,000 (S)	0.001 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U [0.01 U]	0.01 U	0.01 U [0.01 U]	0.01 U
Acetone	mg/L	15,000	1,000,000 (D)	31,000	1.7	2.1	1,000,000 (D,S)	0.73	1,000,000 (D,S)	0.03 U	0.02 U	0.006 J	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U [0.02 U]	0.02 UJ	0.003 [0.004]	0.02 U
Acrylonitrile	mg/L	6,400	ID	14	0.002 (M)	0.011	190	0.0026	34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	68	67	11	0.2 (X)	0.005 (A)	35	0.005 (A)	5.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001	**0.031 (NDW,RDW)**	**0.072 (NDW,RDW) [0.071 (NDW,RDW)]**	**0.127 (NDW,RDW)**	**0.08 (NDW,RDW) [0.078 (NDW,RDW)]**	0.001 U
Bromobenzene	mg/L	ID	ID	12	NA	0.05	390	0.018	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/L	ID	ID	14	ID	0.08 (A,W)	37	0.08 (A,W)	4.8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U
Bromoform	mg/L	ID	ID	140	ID	0.08 (A,W)	3,100 (S)	0.08 (A,W)	470	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U
Bromomethane	mg/L	ID	ID	70	0.035	0.029	9	0.01	4	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U [0.002 U]	0.002 U	0.002 U [0.002 U]	0.002 U
Carbon Disulfide	mg/L	13	ID	1,200 (S)	ID	2.3	550	0.8	250	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U	0.005 U [0.005 U]	0.005 U
Carbon Tetrachloride	mg/L	ID	96	4.6	0.045 (X)	0.005 (A)	2.4	0.005 (A)	0.37	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U
Chlorobenzene	mg/L	160	ID	86	0.025	0.1 (A)	470 (S)	0.1 (A)	210	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U
Chloroethane	mg/L	110	ID	440	1.1 (X)	1.7	5,700 (S)	0.43	5,700 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U
Chloroform	mg/L	ID	ID	150	0.35	0.08 (A,W)	180	0.08 (A,W)	28	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U
Chloromethane	mg/L	36	210	490	ID	1.1	45	0.26	8.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 UJ [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U
cis-1,2-Dichloroethene	mg/L	530	ID	200	0.62	0.07 (A)	210	0.07 (A)	93	0.003	0.004	0.001	0.002	0.004	0.003	0.004	0.004 [0.004]	0.004	0.003 [0.003]	0.002
cis-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U
Cyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U [0.001 U]	0.001 U
Dibromochloromethane	mg/L	ID	ID	18	ID	0.08 (A,W)	110	0.08 (A,W)	14	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U
Dibromomethane	mg/L	ID	ID	530	NA	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/L	ID	ID	300 (S)	ID	4.8	300 (S)	1.7	220	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U [0.001 U]	0.001 U
Diethyl ether	mg/L	650	61,000 (S)	35,000	ID	10 (E)	61,000 (S)	3.7 (E)	61,000 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	43	170 (S)	170 (S)	0.018	0.7 (E)	170 (S)	0.7 (E)	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U
Hexachloroethane	mg/L	ID	ID	1.9	0.0067 (X)	0.021	50 (S)	0.0073	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	29	ID	56 (S)	0.028	2.3	56 (S)	0.8	56 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U
m&p-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.0003]	0.002 U
Methyl acetate	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U [0.01 U]	0.01 U	0.01 U [0.01 U]	0.01 U
Methyl tert-butyl ether	mg/L	ID	ID	610	7.1 (X)	0.69 (E)	47,000 (S)	0.24 (E)	47,000 (S)	0.003 J	0.002 J	0.0009 J	0.001 J	0.0007 J	0.0007 J	0.0005 J	0.0005 J [0.0006 J]	0.0005 J	0.0005 [0.0005]	0.005 U
Methylcyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 U	0.02 U [0.02 U]	0.02 U	0.02 U [0.02 U]	0.02 U
Methylene Chloride	mg/L	ID	ID	220	1.5 (X)	0.005 (A)	1,400	0.005 (A)	220	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U	0.005 U [0.005 U]	0.005 U
Naphthalene	mg/L	NA	31 (S)	31 (S)	0.011	1.5	31 (S)	0.52	31 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U
n-Butylbenzene	mg/L	ID	ID	5.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	ID	ID	15	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U
o-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-17-02D 12/08/05	RFI-17-02D 11/01/06	RFI-17-02D 04/24/07	RFI-17-02D 06/27/07	RFI-17-02D 10/26/07	RFI-17-02D 03/18/08	RFI-17-02D 06/17/08	RFI-17-02D 09/10/08	RFI-17-02D 12/04/08	RFI-17-02D 09/22/09	RFI-17-02D 10/21/11
p-Isopropyltoluene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	ID	ID	4.4	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	140	310 (S)	9.7	0.08 (X)	0.1 (A)	310 (S)	0.1 (A)	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U
tert-Butylbenzene	mg/L	ID	ID	8.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	ID	200 (S)	12	0.06 (X)	0.005 (A)	170	0.005 (A)	25	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U
Tetrahydrofuran	mg/L	60	3,600	1,600	11 (X)	0.27	16,000	0.095	6,900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/L	61	ID	530 (S)	0.27	1 (E)	530 (S)	1 (E)	530 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.0003 [0.0003]	0.001 U
trans-1,2-Dichloroethene	mg/L	230	ID	220	1.5 (X)	0.1 (A)	200	0.1 (A)	85	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.0002 J	0.001 U [0.0003]	0.001 U
trans-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ID	1,100 (S)	22	0.2 (X)	0.005 (A)	97	0.005 (A)	15	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U
Trichlorofluoromethane	mg/L	ID	1,100 (S)	1,100 (S)	NA	7.3	1,100 (S)	2.6	1,100 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U
Vinyl Chloride	mg/L	33	ID	1	0.013 (X)	0.002 (A)	13	0.002 (A)	1.1	**0.003 (NDW,RDW)**	0.002	0.001 U	0.002	**0.003 (NDW,RDW)**	0.001	0.002	0.001 [0.002]	0.002 J	0.001 [0.001]	0.001 U
PCB																				
Total PCBs	mg/L	ID	ID	0.0033 (AA)	0.0002 (M	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved																				
Total PCBs (Dissolved)	mg/L	ID	ID	0.0033 (AA)	0.0002 (M)	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																				
Antimony	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U
Silver	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved																				
Antimony (Dissolved)	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-36-03 09/27/01	RFI-36-03 06/18/02	RFI-36-03 03/25/03	RFI-36-03 06/09/05	RFI-36-03 11/02/06	RFI-36-03 04/23/07	RFI-36-03 06/26/07	RFI-36-03 10/27/11	RFI-36-04 09/28/01	RFI-36-04 06/18/02	RFI-36-04 04/02/03	RFI-36-04 09/18/08
VOC																					
1,1,1,2-Tetrachloroethane	mg/L	ID	ID	30	ID	0.32	96	0.077	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/L	ID	1,300 (S)	1,300 (S)	0.089	0.2 (A)	1,300 (S)	0.2 (A)	660	0.042	0.019	0.054	0.002	0.008	0.005	0.004 [0.005]	NA	0.001 UJ	NA	NA	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	ID	ID	4.7	0.078 (X)	0.035	77	0.0085	12	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	NA	0.001 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/L	ID	170 (S)	170 (S)	0.032	170 (S)	170 (S)	170 (S)	170 (S)	0.001 U	0.001 U	0.001 U	0.03 U	0.03 U	0.03 U	0.03 UJ [0.03 UJ]	NA	0.001 U	NA	NA	0.03 U
1,1,2-Trichloroethane	mg/L	NA	ID	21	0.33 (X)	0.005 (A)	110	0.005 (A)	17	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	NA	0.001 U
1,1-Dichloroethane	mg/L	380	ID	2,400	0.74	2.5	2,300	0.88	1,000	0.0045	0.086	0.16 D	0.001 U	0.0008 J	0.001	0.003 [0.003]	NA	0.00082 J	NA	NA	0.002
1,1-Dichloroethene	mg/L	97	140	11	0.13	0.007 (A)	1.3	0.007 (A)	0.2	0.001 U	0.00076 J	0.003	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	NA	0.001 U
1,2,3-Trichlorobenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/L	NA	ID	84	NA	0.12	18	0.042	8.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/L	NA	300 (S)	19	0.099 (X)	0.07 (A)	300 (S)	0.07 (A)	300 (S)	0.005 U	0.005 U	0.005 U	0.002 U	0.002 U	0.002 U	0.002 U [0.002 U]	NA	0.005 U	NA	NA	0.002 U
1,2,4-Trimethylbenzene	mg/L	56 (S)	ID	56 (S)	0.017	2.9 (E)	56 (S)	1 (E)	56 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	NA	0.001 U	NA	NA	0.001 U
1,2-Dibromoethane	mg/L	ID	ID	0.025	0.0057 (X)	0.00005 (A)	15	0.00005 (A)	2.4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	NA	0.001 U
1,2-Dichlorobenzene	mg/L	NA	160 (S)	160 (S)	0.013	0.6 (A)	160 (S)	0.6 (A)	160 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	NA	0.001 U
1,2-Dichloroethane	mg/L	2,500	ID	19	0.36 (X)	0.005 (A)	59	0.005 (A)	9.6	0.001 U	0.0019	0.0011	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	NA	0.001 U
1,2-Dichloropropane	mg/L	550	2,800 (S)	16	0.23 (X)	0.005 (A)	36	0.005 (A)	16	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	NA	0.001 U
1,3,5-Trimethylbenzene	mg/L	ID	ID	61 (S)	0.045	2.9 (E)	61 (S)	1 (E)	61 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ID	ID	2	0.028	0.019	41	0.0066	18	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	NA	0.001 U
1,4-Dichlorobenzene	mg/L	NA	ID	6.4	0.017	0.075 (A)	74 (S)	0.075 (A)	16	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	NA	0.001 U
2-Butanone	mg/L	ID	240,000 (S)	240,000 (S)	2.2	38	240,000 (S)	13	240,000 (S)	0.025 U	0.025 U	0.025 U	0.03 U	0.02 U	0.02 U	0.02 U [0.02 U]	NA	0.025 U	NA	NA	0.02 U
2-Hexanone	mg/L	NA	ID	5,200	ID	2.9	8,700	1	4,200	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U [0.05 U]	NA	0.05 U	NA	NA	0.05 UJ
2-Methylnaphthalene	mg/L	ID	ID	25 (S)	0.019	0.75	25 (S)	0.26	25 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	ID	20,000 (S)	13,000	ID	5.2	20,000 (S)	1.8	20,000 (S)	0.05 U	0.05 U	0.05 U	0.001 U	0.01 U	0.01 U	0.01 U [0.01 U]	NA	0.05 U	NA	NA	0.01 U
Acetone	mg/L	15,000	1,000,000 (D)	31,000	1.7	2.1	1,000,000 (D,S)	0.73	1,000,000 (D,S)	0.025 U	0.0015 J	0.025 U	0.03 U	0.02 U	0.02 UJ	R [R]	NA	0.025 U	NA	NA	0.02 U
Acrylonitrile	mg/L	6,400	ID	14	0.002 (M)	0.011	190	0.0026	34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	68	67	11	0.2 (X)	0.005 (A)	35	0.005 (A)	5.6	0.001 U	0.001 U	0.0028	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	NA	0.001 U
Bromobenzene	mg/L	ID	ID	12	NA	0.05	390	0.018	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/L	ID	ID	14	ID	0.08 (A,W)	37	0.08 (A,W)	4.8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	NA	0.001 U
Bromoform	mg/L	ID	ID	140	ID	0.08 (A,W)	3,100 (S)	0.08 (A,W)	470	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	NA	0.001 U
Bromomethane	mg/L	ID	ID	70	0.035	0.029	9	0.01	4	0.001 U	0.001 U	0.001 UJ	0.002 U	0.002 U	0.002 U	0.002 U [0.002 U]	NA	0.001 U	NA	NA	0.002 UJ
Carbon Disulfide	mg/L	13	ID	1,200 (S)	ID	2.3	550	0.8	250	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U [0.005 U]	NA	0.005 U	NA	NA	0.005 U
Carbon Tetrachloride	mg/L	ID	96	4.6	0.045 (X)	0.005 (A)	2.4	0.005 (A)	0.37	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	NA	0.001 U
Chlorobenzene	mg/L	160	ID	86	0.025	0.1 (A)	470 (S)	0.1 (A)	210	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	NA	0.001 U
Chloroethane	mg/L	110	ID	440	1.1 (X)	1.7	5,700 (S)	0.43	5,700 (S)	0.001 U	0.016	0.019	0.001 U	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	NA	0.001 U	NA	NA	0.001 UJ
Chloroform	mg/L	ID	ID	150	0.35	0.08 (A,W)	180	0.08 (A,W)	28	0.001 U	0.001 U	0.001 U	0.012	0.0004 J	0.0002 J	0.001 U [0.001 U]	NA	0.001 U	NA	NA	0.001 U
Chloromethane	mg/L	36	210	490	ID	1.1	45	0.26	8.6	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	NA	0.001 U	NA	NA	0.001 U
cis-1,2-Dichloroethene	mg/L	530	ID	200	0.62	0.07 (A)	210	0.07 (A)	93	0.001 U	0.00077 J	0.0012	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	NA	0.001
cis-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	NA	0.001 U
Cyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.00079 J	0.005 U	0.005 U	0.001 U	0.001 U	0.001 UJ	0.001 UJ [0.001 UJ]	NA	0.005 U	NA	NA	0.001 U
Dibromochloromethane	mg/L	ID	ID	18	ID	0.08 (A,W)	110	0.08 (A,W)	14	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	NA	0.001 U
Dibromomethane	mg/L	ID	ID	530	NA	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/L	ID	ID	300 (S)	ID	4.8	300 (S)	1.7	220	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	R [R]	NA	0.001 U	NA	NA	0.001 U
Diethyl ether	mg/L	650	61,000 (S)	35,000	ID	10 (E)	61,000 (S)	3.7 (E)	61,000 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	43	170 (S)	170 (S)	0.018	0.7 (E)	170 (S)	0.7 (E)	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	NA	0.001 U
Hexachloroethane	mg/L	ID	ID	1.9	0.0067 (X)	0.021	50 (S)	0.0073	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	29	ID	56 (S)	0.028	2.3	56 (S)	0.8	56 (S)	0.005 U	0.005 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	NA	0.005 U	NA	NA	0.001 U
m&p-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.002 U	0.002 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	NA	0.002 U	NA	NA	0.001 U
Methyl acetate	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.005 U	0.005 U	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U [0.01 U]	NA	0.005 U	NA	NA	0.01 U
Methyl tert-butyl ether	mg/L	ID	ID	610	7.1 (X)	0.69 (E)	47,000 (S)	0.24 (E)	47,000 (S)	0.005 U	0.00065 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U [0.005 U]	NA	0.005 U	NA	NA	0.005 U
Methylcyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.02 U	0.02 U	0.02 U	0.02 U [0.02 U]	NA	0.001 U	NA	NA	0.02 U
Methylene Chloride	mg/L	ID	ID	220	1.5 (X)	0.005 (A)	1,400	0.005 (A)	220	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U [0.005 U]	NA	0.005 U	NA	NA	0.005 U
Naphthalene	mg/L	NA	31 (S)	31 (S)	0.011	1.5	31 (S)	0.52	31 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	ID	ID	5.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	ID	ID	15	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	NA	0.001 U

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-36-03 09/27/01	RFI-36-03 06/18/02	RFI-36-03 03/25/03	RFI-36-03 06/09/05	RFI-36-03 11/02/06	RFI-36-03 04/23/07	RFI-36-03 06/26/07	RFI-36-03 10/27/11	RFI-36-04 09/28/01	RFI-36-04 06/18/02	RFI-36-04 04/02/03	RFI-36-04 09/18/08
p-Isopropyltoluene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	ID	ID	4.4	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	140	310 (S)	9.7	0.08 (X)	0.1 (A)	310 (S)	0.1 (A)	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	NA	0.001 U
tert-Butylbenzene	mg/L	ID	ID	8.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	ID	200 (S)	12	0.06 (X)	0.005 (A)	170	0.005 (A)	25	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	NA	0.001 U
Tetrahydrofuran	mg/L	60	3,600	1,600	11 (X)	0.27	16,000	0.095	6,900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/L	61	ID	530 (S)	0.27	1 (E)	530 (S)	1 (E)	530 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	NA	0.001 U
trans-1,2-Dichloroethene	mg/L	230	ID	220	1.5 (X)	0.1 (A)	200	0.1 (A)	85	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	NA	0.001 U
trans-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	NA	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ID	1,100 (S)	22	0.2 (X)	0.005 (A)	97	0.005 (A)	15	0.00068 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	NA	0.001 UJ	NA	NA	0.001 U
Trichlorofluoromethane	mg/L	ID	1,100 (S)	1,100 (S)	NA	7.3	1,100 (S)	2.6	1,100 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	NA	0.001 U	NA	NA	0.001 U
Vinyl Chloride	mg/L	33	ID	1	0.013 (X)	0.002 (A)	13	0.002 (A)	1.1	0.001 U	0.0019	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	NA	0.001 U	NA	NA	**0.003 (NDW,RDW)**
PCB																					
Total PCBs	mg/L	ID	ID	0.0033 (AA)	0.0002 (M	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	0.0001 U	NA	NA	NA	NA	NA	NA	NA	0.0001 U	NA	NA	NA
PCB-Dissolved																					
Total PCBs (Dissolved)	mg/L	ID	ID	0.0033 (AA)	0.0002 (M)	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	0.0001 U	NA	NA	NA	NA	NA	NA	NA	0.0001 U	NA	NA	NA
Inorganic																					
Antimony	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	0.0012 U	0.0012 U	0.0014	NA	NA	NA	NA	0.005 U	NA	0.0012 U [0.0011 J]	0.0012 U	NA
Arsenic	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	0.0015 U	0.0019 U	0.0028	NA	NA	NA	NA	0.002 U	NA	**0.080 (NDW,RDW) [0.08 J (NDW,RDW)]**	**0.087 (NDW,RDW)**	NA
Barium	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	0.15 J	0.20	0.15 J	NA	NA	NA	NA	0.079	NA	0.46 [0.53 J]	0.41	NA
Beryllium	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	0.00074 J	0.00040 UJ	0.00040 U	NA	NA	NA	NA	0.001 U	NA	0.00040 UJ [0.00013 J]	0.00040 U	NA
Cadmium	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	0.00031 J	0.00049	**0.021 (NDW,RDW)**	NA	NA	NA	NA	0.0005 U	NA	0.00020 U [0.00012 J]	0.00019 J	NA
Chromium Total	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	0.0020	0.0012	0.0029	NA	NA	NA	NA	0.005 U	NA	0.00071 [0.00067]	0.0033	NA
Cobalt	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	0.00084	0.0053	0.0092	NA	NA	NA	NA	0.005 U	NA	0.0029 [0.0031]	0.0030	NA
Copper	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	0.0023	0.0045 J	0.017	NA	NA	NA	NA	0.004 U	NA	0.0057 J [0.0034]	0.0097	NA
Cyanide (total)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	0.011	0.0061	0.005 U	NA	NA	NA	NA	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U	NA
Lead	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	0.00037 J	0.00019 J	**0.0052 (NDW,RDW)**	NA	NA	NA	NA	**0.008 (NDW,RDW)**	NA	0.0010 [0.00091]	0.0018	NA
Manganese	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	0.11 J	0.43	0.25	NA	NA	NA	NA	0.032	NA	0.44 [0.56 J]	0.60 J	NA
Mercury	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	0.0002 U	0.000390	0.0002 U	NA	NA	NA	NA	0.0002 U	0.0002 U	0.0002 U [0.0002 U]	0.0002 U	NA
Nickel	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	0.0063	0.020	0.019	NA	NA	NA	NA	0.016	NA	0.061 [0.061]	0.040	NA
Selenium	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	0.0014 U	0.0027 J	0.0016 U	NA	NA	NA	NA	0.005 U	NA	0.0014 U [0.0013 J]	0.0016 U	NA
Silver	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	0.00040 U	0.00040 U	0.00040 U	NA	NA	NA	NA	0.0005 U	NA	0.00040 U [0.00054]	0.00040 U	NA
Thallium	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	0.00020 U	0.00042	0.00023	NA	NA	NA	NA	0.002 U	NA	0.00021 U [0.00012 J]	0.00022	NA
Vanadium	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	0.00080 U	0.00080 U	0.0023	NA	NA	NA	NA	0.004 U	NA	0.00021 J [0.0008 U]	0.00065 J	NA
Zinc	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	0.0071 J	0.012 J	0.095 J	NA	NA	NA	NA	0.008	NA	0.034 J [0.017]	0.026	NA
Inorganic-Dissolved																					
Antimony (Dissolved)	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	0.0012 U	NA	NA	NA	NA	NA	NA	NA	0.0012 U	NA	NA	NA
Arsenic (Dissolved)	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	0.0014	NA	NA	NA	NA	NA	NA	NA	**0.081 (NDW,RDW)**	NA	NA	NA
Barium (Dissolved)	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	0.17	NA	NA	NA	NA	NA	NA	NA	0.48	NA	NA	NA
Beryllium (Dissolved)	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	0.00040 U	NA	NA	NA	NA	NA	NA	NA	0.00040 U	NA	NA	NA
Cadmium (Dissolved)	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	0.00037	NA	NA	NA	NA	NA	NA	NA	0.00020 U	NA	NA	NA
Chromium Total (Dissolved)	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	0.0014	NA	NA	NA	NA	NA	NA	NA	0.00060 U	NA	NA	NA
Cobalt (Dissolved)	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	0.00078	NA	NA	NA	NA	NA	NA	NA	0.0026	NA	NA	NA
Copper (Dissolved)	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	0.0021	NA	NA	NA	NA	NA	NA	NA	0.0013	NA	NA	NA
Cyanide (dissolved)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	0.010	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA
Lead (Dissolved)	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	0.00040 U	NA	NA	NA	NA	NA	NA	NA	0.00040 U	NA	NA	NA
Manganese (Dissolved)	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	0.12 J	NA	NA	NA	NA	NA	NA	NA	0.33 J	NA	NA	NA
Mercury (Dissolved)	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	0.0002 U	NA	NA	NA	NA	NA	NA	NA	0.0002 U	NA	NA	NA
Nickel (Dissolved)	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	0.0064	NA	NA	NA	NA	NA	NA	NA	0.043	NA	NA	NA
Selenium (Dissolved)	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	0.0042 J	NA	NA	NA	NA	NA	NA	NA	0.0029	NA	NA	NA
Silver (Dissolved)	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	0.00040 U	NA	NA	NA	NA	NA	NA	NA	0.00040 U	NA	NA	NA
Thallium (Dissolved)	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	0.00020 U	NA	NA	NA	NA	NA	NA	NA	0.00020 U	NA	NA	NA
Vanadium (Dissolved)	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	0.00080 U	NA	NA	NA	NA	NA	NA	NA	0.00080 U	NA	NA	NA
Zinc (Dissolved)	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	0.0060 U	NA	NA	NA	NA	NA	NA	NA	0.015 J	NA	NA	NA

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RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-36-04 10/27/11	RFI-36-14 10/02/01	RFI-36-14 02/20/02	RFI-36-14 06/17/02	RFI-36-14 03/25/03	RFI-36-14 10/11/04	RFI-36-14 11/02/06	RFI-36-14 10/26/07	RFI-36-14 09/15/08	RFI-36-14 09/23/09	RFI-36-14 10/27/11	RFI-36-19 09/28/01	RFI-36-19 10/06/04	RFI-36-19 12/08/05	RFI-36-19 06/26/07	RFI-36-19 10/30/07
VOC																									
1,1,1,2-Tetrachloroethane	mg/L	ID	ID	30	ID	0.32	96	0.077	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/L	ID	1,300 (S)	1,300 (S)	0.089	0.2 (A)	1,300 (S)	0.2 (A)	660	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	ID	ID	4.7	0.078 (X)	0.035	77	0.0085	12	0.001 U	0.001 UJ [0.001 UJ]	NA	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/L	ID	170 (S)	170 (S)	0.032	170 (S)	170 (S)	170 (S)	170 (S)	0.03 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.001 U	0.03 U	0.03 U	0.03 UJ	0.03 U
1,1,2-Trichloroethane	mg/L	NA	ID	21	0.33 (X)	0.005 (A)	110	0.005 (A)	17	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	380	ID	2,400	0.74	2.5	2,300	0.88	1,000	0.004	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	97	140	11	0.13	0.007 (A)	1.3	0.007 (A)	0.2	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,3-Trichlorobenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/L	NA	ID	84	NA	0.12	18	0.042	8.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/L	NA	300 (S)	19	0.099 (X)	0.07 (A)	300 (S)	0.07 (A)	300 (S)	0.002 U	0.005 U [0.005 U]	NA	0.005 U	NA	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.005 U	0.002 U	0.002 U	0.002 U	0.002 U
1,2,4-Trimethylbenzene	mg/L	56 (S)	ID	56 (S)	0.017	2.9 (E)	56 (S)	1 (E)	56 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U
1,2-Dibromoethane	mg/L	ID	ID	0.025	0.0057 (X)	0.00005 (A)	15	0.00005 (A)	2.4	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	NA	160 (S)	160 (S)	0.013	0.6 (A)	160 (S)	0.6 (A)	160 (S)	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	2,500	ID	19	0.36 (X)	0.005 (A)	59	0.005 (A)	9.6	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	550	2,800 (S)	16	0.23 (X)	0.005 (A)	36	0.005 (A)	16	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	ID	ID	61 (S)	0.045	2.9 (E)	61 (S)	1 (E)	61 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ID	ID	2	0.028	0.019	41	0.0066	18	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.0002	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	NA	ID	6.4	0.017	0.075 (A)	74 (S)	0.075 (A)	16	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone	mg/L	ID	240,000 (S)	240,000 (S)	2.2	38	240,000 (S)	13	240,000 (S)	0.02 U	0.025 U [0.025 U]	NA	0.025 U	NA	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.025 U	0.03 U	0.03 U	0.02 U	0.02 U
2-Hexanone	mg/L	NA	ID	5,200	ID	2.9	8,700	1	4,200	0.05 U	0.05 U [0.05 U]	NA	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
2-Methylnaphthalene	mg/L	ID	ID	25 (S)	0.019	0.75	25 (S)	0.26	25 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	ID	20,000 (S)	13,000	ID	5.2	20,000 (S)	1.8	20,000 (S)	0.01 U	0.05 U [0.05 U]	NA	0.05 U	NA	0.001 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.001 U	0.001 U	0.01 U	0.01 U
Acetone	mg/L	15,000	1,000,000 (D)	31,000	1.7	2.1	1,000,000 (D,S)	0.73	1,000,000 (D,S)	0.02 U	0.025 U [0.025 U]	NA	0.025 U	NA	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.025 U	0.03 U	0.03 U	R	0.02 U
Acrylonitrile	mg/L	6,400	ID	14	0.002 (M)	0.011	190	0.0026	34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	68	67	11	0.2 (X)	0.005 (A)	35	0.005 (A)	5.6	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromobenzene	mg/L	ID	ID	12	NA	0.05	390	0.018	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/L	ID	ID	14	ID	0.08 (A,W)	37	0.08 (A,W)	4.8	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	ID	ID	140	ID	0.08 (A,W)	3,100 (S)	0.08 (A,W)	470	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U
Bromomethane	mg/L	ID	ID	70	0.035	0.029	9	0.01	4	0.002 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.002 UJ	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.001 U	0.002 UJ	0.002 U	0.002 U	0.002 U
Carbon Disulfide	mg/L	13	ID	1,200 (S)	ID	2.3	550	0.8	250	0.005 U	0.005 U [0.005 U]	NA	0.005 U	NA	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon Tetrachloride	mg/L	ID	96	4.6	0.045 (X)	0.005 (A)	2.4	0.005 (A)	0.37	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	160	ID	86	0.025	0.1 (A)	470 (S)	0.1 (A)	210	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	110	ID	440	1.1 (X)	1.7	5,700 (S)	0.43	5,700 (S)	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 UJ	0.001 U
Chloroform	mg/L	ID	ID	150	0.35	0.08 (A,W)	180	0.08 (A,W)	28	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane	mg/L	36	210	490	ID	1.1	45	0.26	8.6	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U
cis-1,2-Dichloroethene	mg/L	530	ID	200	0.62	0.07 (A)	210	0.07 (A)	93	0.002	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.005 U [0.005 U]	NA	0.005 U	NA	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 UJ	0.001 U
Dibromochloromethane	mg/L	ID	ID	18	ID	0.08 (A,W)	110	0.08 (A,W)	14	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromomethane	mg/L	ID	ID	530	NA	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/L	ID	ID	300 (S)	ID	4.8	300 (S)	1.7	220	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	R	0.001 U
Diethyl ether	mg/L	650	61,000 (S)	35,000	ID	10 (E)	61,000 (S)	3.7 (E)	61,000 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	43	170 (S)	170 (S)	0.018	0.7 (E)	170 (S)	0.7 (E)	110	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Hexachloroethane	mg/L	ID	ID	1.9	0.0067 (X)	0.021	50 (S)	0.0073	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	29	ID	56 (S)	0.028	2.3	56 (S)	0.8	56 (S)	0.001 U	0.005 U [0.005 U]	NA	0.005 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U
m&p-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.002 U	0.002 U [0.002 U]	NA	0.002 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U
Methyl acetate	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.01 U	0.005 U [0.005 U]	NA	0.005 U	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.005 U	0.01 UJ	0.01 U	0.01 U	0.01 U
Methyl tert-butyl ether	mg/L	ID	ID	610	7.1 (X)	0.69 (E)	47,000 (S)	0.24 (E)	47,000 (S)	0.005 U	0.005 U [0.005 U]	NA	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methylcyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.02 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.001 U	0.02 U	0.02 U	0.02 U	0.02 U
Methylene Chloride	mg/L	ID	ID	220	1.5 (X)	0.005 (A)	1,400	0.005 (A)	220	0.005 U	0.005 U [0.005 U]	NA	0.005 UJ	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Naphthalene	mg/L	NA	31 (S)	31 (S)	0.011	1.5	31 (S)	0.52	31 (S)	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	ID	ID	5.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	ID	ID	15	ID	0.23	ID	0.08	ID	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
o-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-36-04 10/27/11	RFI-36-14 10/02/01	RFI-36-14 02/20/02	RFI-36-14 06/17/02	RFI-36-14 03/25/03	RFI-36-14 10/11/04	RFI-36-14 11/02/06	RFI-36-14 10/26/07	RFI-36-14 09/15/08	RFI-36-14 09/23/09	RFI-36-14 10/27/11	RFI-36-19 09/28/01	RFI-36-19 10/06/04	RFI-36-19 12/08/05	RFI-36-19 06/26/07	RFI-36-19 10/30/07
p-Isopropyltoluene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	ID	ID	4.4	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	140	310 (S)	9.7	0.08 (X)	0.1 (A)	310 (S)	0.1 (A)	170	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
tert-Butylbenzene	mg/L	ID	ID	8.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	ID	200 (S)	12	0.06 (X)	0.005 (A)	170	0.005 (A)	25	0.001 U	0.001 U [0.001 U]	NA	0.001 UJ	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrahydrofuran	mg/L	60	3,600	1,600	11 (X)	0.27	16,000	0.095	6,900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/L	61	ID	530 (S)	0.27	1 (E)	530 (S)	1 (E)	530 (S)	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.0002	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0001 J
trans-1,2-Dichloroethene	mg/L	230	ID	220	1.5 (X)	0.1 (A)	200	0.1 (A)	85	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ID	1,100 (S)	22	0.2 (X)	0.005 (A)	97	0.005 (A)	15	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane	mg/L	ID	1,100 (S)	1,100 (S)	NA	7.3	1,100 (S)	2.6	1,100 (S)	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0032	0.0008 J	0.001 U	0.001 UJ	0.003 J
Vinyl Chloride	mg/L	33	ID	1	0.013 (X)	0.002 (A)	13	0.002 (A)	1.1	0.001 U	0.001 U [0.001 U]	NA	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U
PCB																									
Total PCBs	mg/L	ID	ID	0.0033 (AA)	0.0002 (M	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	0.0001 U [0.0001 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved																									
Total PCBs (Dissolved)	mg/L	ID	ID	0.0033 (AA)	0.0002 (M)	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	0.0001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																									
Antimony	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	0.0012 U [0.0012 U]	NA	0.0012 U	0.0012 U [0.0012 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	**0.257 (NDW,RDW)**	0.0014 U [0.0016 J]	NA	0.00048 J	0.0038 [0.0035]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	0.29 J [0.35]	NA	0.11	0.026 [0.026]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	**0.00034 J [0.0069 (NDW,RDW)]**	NA	0.00040 UJ	0.00040 U [0.0004 U]	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	0.00038 J [0.00075]	NA	0.00010 J	0.00020 U [0.0002 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	0.00092 [0.0016]	NA	0.00048 J	0.00077 [0.00085]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	0.0024 [0.0036]	NA	0.00056	0.0019 [0.0018]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	0.0029 [0.0038]	NA	0.0028 U	0.0023 [0.0024]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	0.0015 J [0.005 U]	NA	0.029	0.0030 J [0.0033 J]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	0.00038 J [0.00017 J]	NA	0.00025 J	0.00040 U [0.00034 J]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	**1.5 J (RDW) [2.5 (RDW)]**	0.62	0.28 J	0.72 [0.72]	0.683	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	0.0002 U [0.0002 U]	NA	0.0002 U	0.0002 U [0.0002 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	0.011 [0.017]	0.0055	0.0033	0.011 [0.011]	0.012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	0.00049 J [0.0048 J]	NA	0.0032	0.0016 U [0.0016 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	0.00040 U [0.0004 U]	NA	0.00040 U	0.00037 J [0.00012 J]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	0.00020 U [0.00027 U]	NA	0.000088 J	0.000052 J [0.0002 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	0.00080 U [0.0008 U]	NA	0.00080 U	0.00012 J [0.0008 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	0.014 J [0.021]	NA	0.032	0.0083 [0.0089]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved																									
Antimony (Dissolved)	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	0.0012 U [0.0012 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	0.0010 U [0.001 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	0.25 [0.24]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	0.00040 U [0.0004 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	0.00039 [0.00037]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	0.00060 U [0.0006 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	0.0020 [0.0021]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	0.0050 U [0.0018 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	0.0013 J [0.0015 J]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	0.00040 U [0.0004 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	**1.5 (RDW) [1.5 (RDW)]**	0.65	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	0.0002 U [0.0002 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	**0.0072 [0.17 (NDW,RDW)]**	0.0053	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	0.035 [0.032]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	0.00040 U [0.0004 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	0.00020 U [0.0002 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	0.00080 U [0.0008 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	0.017 [0.014]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-36-19 03/20/08	RFI-36-19 06/18/08	RFI-36-19 09/17/08	RFI-36-19 12/04/08	RFI-36-19 09/25/09	RFI-36-19 10/15/10	RFI-36-19 10/25/11	RFI-36-20 09/28/01	RFI-36-20 06/22/02	RFI-36-20 10/06/04	RFI-36-20 10/14/10	RFI-36-37 09/28/01	RFI-36-37 06/22/02	RFI-36-37 06/10/05	RFI-36-37 06/26/07	RFI-36-37 10/30/07
VOC																									
1,1,1,2-Tetrachloroethane	mg/L	ID	ID	30	ID	0.32	96	0.077	15	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/L	ID	1,300 (S)	1,300 (S)	0.089	0.2 (A)	1,300 (S)	0.2 (A)	660	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.0006 J	0.0001 J	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	ID	ID	4.7	0.078 (X)	0.035	77	0.0085	12	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/L	ID	170 (S)	170 (S)	0.032	170 (S)	170 (S)	170 (S)	170 (S)	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	NA	0.03 U	0.001 U	NA	0.03 U	NA	0.001 U	0.001 U	0.03 U	0.03 UJ	0.03 U
1,1,2-Trichloroethane	mg/L	NA	ID	21	0.33 (X)	0.005 (A)	110	0.005 (A)	17	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	380	ID	2,400	0.74	2.5	2,300	0.88	1,000	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.22 D	0.053	0.001	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	97	140	11	0.13	0.007 (A)	1.3	0.007 (A)	0.2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.0057	0.0015	0.002	0.001 U	0.001 U
1,2,3-Trichlorobenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/L	NA	ID	84	NA	0.12	18	0.042	8.3	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/L	NA	300 (S)	19	0.099 (X)	0.07 (A)	300 (S)	0.07 (A)	300 (S)	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.005 U	0.002 U	0.005 U	NA	0.002 U	0.005 U	0.005 U	0.005 U	0.002 U	0.002 U	0.002 U
1,2,4-Trimethylbenzene	mg/L	56 (S)	ID	56 (S)	0.017	2.9 (E)	56 (S)	1 (E)	56 (S)	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	NA	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U
1,2-Dibromoethane	mg/L	ID	ID	0.025	0.0057 (X)	0.00005 (A)	15	0.00005 (A)	2.4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	NA	160 (S)	160 (S)	0.013	0.6 (A)	160 (S)	0.6 (A)	160 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	2,500	ID	19	0.36 (X)	0.005 (A)	59	0.005 (A)	9.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.004	0.0017	0.001 U	0.001 U	0.001
1,2-Dichloropropane	mg/L	550	2,800 (S)	16	0.23 (X)	0.005 (A)	36	0.005 (A)	16	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	ID	ID	61 (S)	0.045	2.9 (E)	61 (S)	1 (E)	61 (S)	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ID	ID	2	0.028	0.019	41	0.0066	18	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	NA	ID	6.4	0.017	0.075 (A)	74 (S)	0.075 (A)	16	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone	mg/L	ID	240,000 (S)	240,000 (S)	2.2	38	240,000 (S)	13	240,000 (S)	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 U	0.03 U	0.02 U	0.025 U	NA	0.03 U	0.03 U	0.025 U	0.0026 J	0.03 U	0.02 U	0.02 U
2-Hexanone	mg/L	NA	ID	5,200	ID	2.9	8,700	1	4,200	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	NA	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
2-Methylnaphthalene	mg/L	ID	ID	25 (S)	0.019	0.75	25 (S)	0.26	25 (S)	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	ID	20,000 (S)	13,000	ID	5.2	20,000 (S)	1.8	20,000 (S)	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.01 U	0.05 U	NA	0.001 U	0.05 U	0.05 U	0.05 U	0.001 U	0.01 U	0.01 U
Acetone	mg/L	15,000	1,000,000 (D)	31,000	1.7	2.1	1,000,000 (D,S)	0.73	1,000,000 (D,S)	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 U	0.05 U	0.02 U	0.025 U	NA	0.03 U	0.05 U	0.025 U	0.025 U	0.03 U	R	0.02 U
Acrylonitrile	mg/L	6,400	ID	14	0.002 (M)	0.011	190	0.0026	34	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA
Benzene	mg/L	68	67	11	0.2 (X)	0.005 (A)	35	0.005 (A)	5.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.0032	0.001 U	**0.009 (NDW,RDW)**	**0.009 (NDW,RDW)**	**0.013 (NDW,RDW)**
Bromobenzene	mg/L	ID	ID	12	NA	0.05	390	0.018	180	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
Bromochloromethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
Bromodichloromethane	mg/L	ID	ID	14	ID	0.08 (A,W)	37	0.08 (A,W)	4.8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	ID	ID	140	ID	0.08 (A,W)	3,100 (S)	0.08 (A,W)	470	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane	mg/L	ID	ID	70	0.035	0.029	9	0.01	4	0.002 UJ	0.002 UJ	0.002 UJ	0.002 U	0.002 U	0.005 U	0.002 U	0.001 U	NA	0.002 UJ	0.005 U	0.001 U	0.001 U	0.002 U	0.002 U	0.002 U
Carbon Disulfide	mg/L	13	ID	1,200 (S)	ID	2.3	550	0.8	250	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon Tetrachloride	mg/L	ID	96	4.6	0.045 (X)	0.005 (A)	2.4	0.005 (A)	0.37	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	160	ID	86	0.025	0.1 (A)	470 (S)	0.1 (A)	210	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	110	ID	440	1.1 (X)	1.7	5,700 (S)	0.43	5,700 (S)	0.001 UJ	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	NA	0.001 UJ	0.005 U	0.18 D	0.1	0.005 J	0.001 UJ	0.001 U
Chloroform	mg/L	ID	ID	150	0.35	0.08 (A,W)	180	0.08 (A,W)	28	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane	mg/L	36	210	490	ID	1.1	45	0.26	8.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	NA	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U
cis-1,2-Dichloroethene	mg/L	530	ID	200	0.62	0.07 (A)	210	0.07 (A)	93	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.0028	0.001	0.0004 J	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.005 U	NA	0.001 U	NA	0.005 U	0.005 U	0.001 U	0.001 UJ	0.001 U
Dibromochloromethane	mg/L	ID	ID	18	ID	0.08 (A,W)	110	0.08 (A,W)	14	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	NA	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromomethane	mg/L	ID	ID	530	NA	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/L	ID	ID	300 (S)	ID	4.8	300 (S)	1.7	220	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	NA	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	R	0.001 U
Diethyl ether	mg/L	650	61,000 (S)	35,000	ID	10 (E)	61,000 (S)	3.7 (E)	61,000 (S)	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	43	170 (S)	170 (S)	0.018	0.7 (E)	170 (S)	0.7 (E)	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Hexachloroethane	mg/L	ID	ID	1.9	0.0067 (X)	0.021	50 (S)	0.0073	27	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA
Iodomethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	29	ID	56 (S)	0.028	2.3	56 (S)	0.8	56 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	NA	0.001 U	0.005 U	0.005 U	0.005 U	0.001 U	0.001 U	0.001 U
m&p-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U	0.002 U	NA	0.001 U	0.002 U	0.002 U	0.002 U	0.001 U	0.0003 J	0.001 U
Methyl acetate	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.005 U	NA	0.01 U	NA	0.005 U	0.005 U	0.01 U	0.01 U	0.01 U
Methyl tert-butyl ether	mg/L	ID	ID	610	7.1 (X)	0.69 (E)	47,000 (S)	0.24 (E)	47,000 (S)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methylcyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	0.02 U	0.001 U	NA	0.02 U	NA	0.001 U	0.001 U	0.02 U	0.02 U	0.02 U
Methylene Chloride	mg/L	ID	ID	220	1.5 (X)	0.005 (A)	1,400	0.005 (A)	220	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Naphthalene	mg/L	NA	31 (S)	31 (S)	0.011	1.5	31 (S)	0.52	31 (S)	NA	NA	NA	NA	NA	0.005 U	0.005 U	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	ID	ID	5.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	ID	ID	15	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	0.001 U	0.001 U	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
o-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-36-19 03/20/08	RFI-36-19 06/18/08	RFI-36-19 09/17/08	RFI-36-19 12/04/08	RFI-36-19 09/25/09	RFI-36-19 10/15/10	RFI-36-19 10/25/11	RFI-36-20 09/28/01	RFI-36-20 06/22/02	RFI-36-20 10/06/04	RFI-36-20 10/14/10	RFI-36-37 09/28/01	RFI-36-37 06/22/02	RFI-36-37 06/10/05	RFI-36-37 06/26/07	RFI-36-37 10/30/07
p-Isopropyltoluene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	ID	ID	4.4	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
Styrene	mg/L	140	310 (S)	9.7	0.08 (X)	0.1 (A)	310 (S)	0.1 (A)	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
tert-Butylbenzene	mg/L	ID	ID	8.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	ID	200 (S)	12	0.06 (X)	0.005 (A)	170	0.005 (A)	25	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrahydrofuran	mg/L	60	3,600	1,600	11 (X)	0.27	16,000	0.095	6,900	NA	NA	NA	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	NA	NA	NA	NA	NA
Toluene	mg/L	61	ID	530 (S)	0.27	1 (E)	530 (S)	1 (E)	530 (S)	0.001 U	0.001 U	0.0001 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0002 J
trans-1,2-Dichloroethene	mg/L	230	ID	220	1.5 (X)	0.1 (A)	200	0.1 (A)	85	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ID	1,100 (S)	22	0.2 (X)	0.005 (A)	97	0.005 (A)	15	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane	mg/L	ID	1,100 (S)	1,100 (S)	NA	7.3	1,100 (S)	2.6	1,100 (S)	0.002	0.002	0.002	0.002	0.001	0.001 U	0.002	0.0026	NA	0.002	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U
Vinyl Chloride	mg/L	33	ID	1	0.013 (X)	0.002 (A)	13	0.002 (A)	1.1	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.001 U	**0.0027 (NDW,RDW)**	0.00056 J	0.001 U	0.001 UJ	0.001 U
PCB																									
Total PCBs	mg/L	ID	ID	0.0033 (AA)	0.0002 (M	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00011 U	NA	NA	NA	NA
PCB-Dissolved																									
Total PCBs (Dissolved)	mg/L	ID	ID	0.0033 (AA)	0.0002 (M)	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00011 U	NA	NA	NA	NA
Inorganic																									
Antimony	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.0012 U	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.0010 U	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.023	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.00040 U	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.00020 U	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	0.00056 J	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.00014 J	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.0046	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	0.0014 J	NA	NA	NA	NA
Lead	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.000089 J	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.00054 J	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	0.0002 U	NA	NA	0.0002 U	NA	NA	NA	NA
Nickel	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.0028	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.0014 U	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.00040 UJ	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.00020 U	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.00080 U	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.0076	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved																									
Antimony (Dissolved)	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.0022	NA	NA	0.0012 U	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.0010 U	NA	NA	0.0031 U	NA	NA	NA	NA
Barium (Dissolved)	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.019	NA	NA	0.21	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.00040 U	NA	NA	0.00040 U	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.00020 U	NA	NA	0.00020 U	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	0.0013	NA	NA	0.00060 U	NA	NA	NA	NA
Cobalt (Dissolved)	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.00020 U	NA	NA	0.00093	NA	NA	NA	NA
Copper (Dissolved)	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.0039	NA	NA	0.00060 U	NA	NA	NA	NA
Cyanide (dissolved)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	0.005 U	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.00040 U	NA	NA	0.00040 U	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.00048 J	NA	NA	0.38	NA	NA	NA	NA
Mercury (Dissolved)	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	0.0002 U	NA	NA	0.0002 U	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.0023	NA	NA	0.0064	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.0014 U	NA	NA	0.0071	NA	NA	NA	NA
Silver (Dissolved)	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.00040 UJ	NA	NA	0.00040 U	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.00020 U	NA	NA	0.00020 U	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.00080 U	NA	NA	0.00080 U	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	0.0060 U	NA	NA	0.014	NA	NA	NA	NA

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-36-37 09/18/08	RFI-36-37 09/25/09	RFI-36-37 10/15/10	RFI-36-47 12/13/02	RFI-36-47 03/25/03	RFI-36-47 06/10/05	RFI-36-47 12/09/05	RFI-36-47 04/23/07	RFI-36-47 06/26/07	RFI-36-47 10/30/07	RFI-36-47 03/20/08	RFI-36-47 06/19/08	RFI-36-47 09/18/08	RFI-36-47 12/04/08
VOC																							
1,1,1,2-Tetrachloroethane	mg/L	ID	ID	30	ID	0.32	96	0.077	15	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/L	ID	1,300 (S)	1,300 (S)	0.089	0.2 (A)	1,300 (S)	0.2 (A)	660	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.19	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.118	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	ID	ID	4.7	0.078 (X)	0.035	77	0.0085	12	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.01 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/L	ID	170 (S)	170 (S)	0.032	170 (S)	170 (S)	170 (S)	170 (S)	0.03 U	0.03 U	NA	0.003 U	0.001 U	0.03 U	0.3 U	0.03 U	0.03 UJ	0.03 U [0.03 U]	0.03 U	0.03 U [0.03 U]	0.03 U	0.03 U
1,1,2-Trichloroethane	mg/L	NA	ID	21	0.33 (X)	0.005 (A)	110	0.005 (A)	17	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.01 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.0003 J	0.001 U
1,1-Dichloroethane	mg/L	380	ID	2,400	0.74	2.5	2,300	0.88	1,000	0.001 U	0.001 U	0.001 U	0.0085	0.004	0.006	0.56	0.003	0.014	0.019 [0.017]	0.01	0.012 [0.011]	0.112	0.012
1,1-Dichloroethene	mg/L	97	140	11	0.13	0.007 (A)	1.3	0.007 (A)	0.2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	**0.07 (NDW,RDW)**	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	**0.031 (NDW,RDW)**	0.001 U
1,2,3-Trichlorobenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/L	NA	ID	84	NA	0.12	18	0.042	8.3	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/L	NA	300 (S)	19	0.099 (X)	0.07 (A)	300 (S)	0.07 (A)	300 (S)	0.002 U	0.002 U	0.005 U	0.005 U	0.005 U	0.002 U	0.02 U	0.002 U	0.002 U	0.002 U [0.002 U]	0.002 U	0.002 U [0.002 U]	0.002 U	0.002 U
1,2,4-Trimethylbenzene	mg/L	56 (S)	ID	56 (S)	0.017	2.9 (E)	56 (S)	1 (E)	56 (S)	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.01 U	0.001 U	0.001 UJ	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
1,2-Dibromoethane	mg/L	ID	ID	0.025	0.0057 (X)	0.00005 (A)	15	0.00005 (A)	2.4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.01 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	NA	160 (S)	160 (S)	0.013	0.6 (A)	160 (S)	0.6 (A)	160 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.01 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	2,500	ID	19	0.36 (X)	0.005 (A)	59	0.005 (A)	9.6	0.001	0.001 U	0.003 U	0.001 U	0.001 U	0.001 U	0.01 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	550	2,800 (S)	16	0.23 (X)	0.005 (A)	36	0.005 (A)	16	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.01 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	ID	ID	61 (S)	0.045	2.9 (E)	61 (S)	1 (E)	61 (S)	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ID	ID	2	0.028	0.019	41	0.0066	18	0.001 U	0.0002	0.001 U	0.001 U	0.001 U	0.001 U	0.01 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	NA	ID	6.4	0.017	0.075 (A)	74 (S)	0.075 (A)	16	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.01 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
2-Butanone	mg/L	ID	240,000 (S)	240,000 (S)	2.2	38	240,000 (S)	13	240,000 (S)	0.02 U	0.02 U	0.03 U	0.025 U	0.025 U	0.03 U	0.3 U	0.02 U	0.02 U	0.02 U [0.02 U]	0.02 U	0.02 U [0.02 U]	0.02 U	0.02 UJ
2-Hexanone	mg/L	NA	ID	5,200	ID	2.9	8,700	1	4,200	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.5 U	0.05 U	0.05 U	0.05 U [0.05 U]	0.05 U	0.05 U [0.05 U]	0.05 UJ	0.05 UJ
2-Methylnaphthalene	mg/L	ID	ID	25 (S)	0.019	0.75	25 (S)	0.26	25 (S)	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	ID	20,000 (S)	13,000	ID	5.2	20,000 (S)	1.8	20,000 (S)	0.01 U	0.01 U	0.05 U	0.05 U	0.05 U	0.001 U	0.01 UJ	0.01 U	0.01 U	0.01 U [0.01 U]	0.01 U	0.01 U [0.01 U]	0.01 U	0.01 U
Acetone	mg/L	15,000	1,000,000 (D)	31,000	1.7	2.1	1,000,000 (D,S)	0.73	1,000,000 (D,S)	0.02 U	0.02 U	0.05 U	0.0013 J	0.025 U	0.03 U	0.3 U	0.02 UJ	R	0.02 U [0.02 U]	0.02 U	0.02 U [0.02 U]	0.02 U	0.02 UJ
Acrylonitrile	mg/L	6,400	ID	14	0.002 (M)	0.011	190	0.0026	34	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	68	67	11	0.2 (X)	0.005 (A)	35	0.005 (A)	5.6	**0.015 (NDW,RDW)**	**0.015 (NDW,RDW)**	**0.048 (NDW,RDW)**	0.001 U	0.001 U	0.001 U	0.01 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.0003 J	0.001 U
Bromobenzene	mg/L	ID	ID	12	NA	0.05	390	0.018	180	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/L	ID	ID	14	ID	0.08 (A,W)	37	0.08 (A,W)	4.8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.01 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
Bromoform	mg/L	ID	ID	140	ID	0.08 (A,W)	3,100 (S)	0.08 (A,W)	470	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.01 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
Bromomethane	mg/L	ID	ID	70	0.035	0.029	9	0.01	4	0.002 UJ	0.002 U	0.005 U	0.001 UJ	0.001 U	0.002 U	0.02 U	0.002 U	0.002 U	0.002 U [0.002 U]	0.002 UJ	0.002 UJ [0.002 UJ]	0.002 UJ	0.002 U
Carbon Disulfide	mg/L	13	ID	1,200 (S)	ID	2.3	550	0.8	250	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.05 U	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U	0.005 U [0.005 U]	0.005 U	0.005 U
Carbon Tetrachloride	mg/L	ID	96	4.6	0.045 (X)	0.005 (A)	2.4	0.005 (A)	0.37	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.01 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
Chlorobenzene	mg/L	160	ID	86	0.025	0.1 (A)	470 (S)	0.1 (A)	210	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.01 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
Chloroethane	mg/L	110	ID	440	1.1 (X)	1.7	5,700 (S)	0.43	5,700 (S)	0.001 UJ	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.12	0.001 U	0.001 UJ	0.001 U [0.001 U]	0.001 UJ	0.001 UJ [0.001 UJ]	0.026 J	0.001 U
Chloroform	mg/L	ID	ID	150	0.35	0.08 (A,W)	180	0.08 (A,W)	28	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.01 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
Chloromethane	mg/L	36	210	490	ID	1.1	45	0.26	8.6	0.001 U	0.001 U	0.005 U	0.001 UJ	0.001 U	0.001 U	0.01 U	0.001 U	0.001 UJ	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	530	ID	200	0.62	0.07 (A)	210	0.07 (A)	93	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.01	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.005	0.001 U
cis-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.01 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
Cyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	NA	0.003 U	0.005 U	0.001 U	0.01 U	0.001 UJ	0.001 UJ	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
Dibromochloromethane	mg/L	ID	ID	18	ID	0.08 (A,W)	110	0.08 (A,W)	14	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.01 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
Dibromomethane	mg/L	ID	ID	530	NA	0.23	ID	0.08	ID	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/L	ID	ID	300 (S)	ID	4.8	300 (S)	1.7	220	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.01 U	0.001 U	R	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
Diethyl ether	mg/L	650	61,000 (S)	35,000	ID	10 (E)	61,000 (S)	3.7 (E)	61,000 (S)	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	43	170 (S)	170 (S)	0.018	0.7 (E)	170 (S)	0.7 (E)	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.01 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
Hexachloroethane	mg/L	ID	ID	1.9	0.0067 (X)	0.021	50 (S)	0.0073	27	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	29	ID	56 (S)	0.028	2.3	56 (S)	0.8	56 (S)	0.001 U	0.001 U	0.005 U	0.005 U	0.005 U	0.001 U	0.01 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
m&p-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.002 U	0.002 U	0.002 U	0.001 U	0.01 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
Methyl acetate	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.01 U	0.01 U	NA	0.003 U	0.005 U	0.01 U	0.1 U	0.01 U	0.01 U	0.01 U [0.01 U]	0.01 U	0.01 U [0.01 U]	0.01 U	0.01 U
Methyl tert-butyl ether	mg/L	ID	ID	610	7.1 (X)	0.69 (E)	47,000 (S)	0.24 (E)	47,000 (S)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.05 U	0.005 U	0.0002 J	0.005 U [0.005 U]	0.005 U	0.005 U [0.005 U]	0.0004 J	0.005 U
Methylcyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.02 U	0.02 U	NA	0.003 U	0.001 UJ	0.02 U	0.2 U	0.02 U	0.02 U	0.02 U [0.02 U]	0.02 U	0.02 U [0.02 U]	0.02 U	0.02 U
Methylene Chloride	mg/L	ID	ID	220	1.5 (X)	0.005 (A)	1,400	0.005 (A)	220	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.05 U	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U	0.005 U [0.005 U]	0.005 U	0.005 U
Naphthalene	mg/L	NA	31 (S)	31 (S)	0.011	1.5	31 (S)	0.52	31 (S)	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	ID	ID	5.9	ID	0.23	ID	0.08	ID	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	ID	ID	15	ID	0.23	ID	0.08	ID	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.01 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-36-37 09/18/08	RFI-36-37 09/25/09	RFI-36-37 10/15/10	RFI-36-47 12/13/02	RFI-36-47 03/25/03	RFI-36-47 06/10/05	RFI-36-47 12/09/05	RFI-36-47 04/23/07	RFI-36-47 06/26/07	RFI-36-47 10/30/07	RFI-36-47 03/20/08	RFI-36-47 06/19/08	RFI-36-47 09/18/08	RFI-36-47 12/04/08
p-Isopropyltoluene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	ID	ID	4.4	ID	0.23	ID	0.08	ID	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	140	310 (S)	9.7	0.08 (X)	0.1 (A)	310 (S)	0.1 (A)	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.01 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
tert-Butylbenzene	mg/L	ID	ID	8.9	ID	0.23	ID	0.08	ID	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	ID	200 (S)	12	0.06 (X)	0.005 (A)	170	0.005 (A)	25	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.01 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
Tetrahydrofuran	mg/L	60	3,600	1,600	11 (X)	0.27	16,000	0.095	6,900	NA	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/L	61	ID	530 (S)	0.27	1 (E)	530 (S)	1 (E)	530 (S)	0.001 U	0.0002	0.001 U	0.001 U	0.001 U	0.001 U	0.01 U	0.0002 J	0.001 U	0.001 U [0.001 U]	0.001 U	0.0001 J [0.001 U]	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	230	ID	220	1.5 (X)	0.1 (A)	200	0.1 (A)	85	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.01 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.0004 J	0.001 U
trans-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.01 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ID	1,100 (S)	22	0.2 (X)	0.005 (A)	97	0.005 (A)	15	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.01 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
Trichlorofluoromethane	mg/L	ID	1,100 (S)	1,100 (S)	NA	7.3	1,100 (S)	2.6	1,100 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.01 U	0.001 U	0.001 UJ	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U
Vinyl Chloride	mg/L	33	ID	1	0.013 (X)	0.002 (A)	13	0.002 (A)	1.1	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	**0.02 (NDW,RDW)**	0.001 U	0.001 UJ	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	**0.003 (NDW,RDW)**	0.001 U
PCB																							
Total PCBs	mg/L	ID	ID	0.0033 (AA)	0.0002 (M	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved																							
Total PCBs (Dissolved)	mg/L	ID	ID	0.0033 (AA)	0.0002 (M)	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																							
Antimony	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved																							
Antimony (Dissolved)	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-36-47 10/15/10	RFI-36-48 12/13/02	RFI-36-48 02/28/05	RFI-36-48 06/10/05	RFI-36-48 12/09/05	RFI-36-48 09/30/07	RFI-36-48 03/20/08	RFI-36-48 06/19/08	RFI-36-48 09/17/08
VOC																		
1,1,1,2-Tetrachloroethane	mg/L	ID	ID	30	ID	0.32	96	0.077	15	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/L	ID	1,300 (S)	1,300 (S)	0.089	0.2 (A)	1,300 (S)	0.2 (A)	660	0.122	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.0002 J	0.0006 J	0.0009 J
1,1,2,2-Tetrachloroethane	mg/L	ID	ID	4.7	0.078 (X)	0.035	77	0.0085	12	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/L	ID	170 (S)	170 (S)	0.032	170 (S)	170 (S)	170 (S)	170 (S)	NA	0.003 U	0.03 U [0.03 U]	0.03 U	0.03 U [0.03 U]	0.03 U [0.03 U]	0.03 U	0.03 U	0.03 U
1,1,2-Trichloroethane	mg/L	NA	ID	21	0.33 (X)	0.005 (A)	110	0.005 (A)	17	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	380	ID	2,400	0.74	2.5	2,300	0.88	1,000	0.087	0.001 U	0.003 [0.002]	0.002	0.17 [0.183]	0.025 [0.024]	0.017	0.027	0.027
1,1-Dichloroethene	mg/L	97	140	11	0.13	0.007 (A)	1.3	0.007 (A)	0.2	**0.026 (NDW,RDW)**	0.001 U	0.001 U [0.001 U]	0.001 U	0.005 [0.005]	0.0006 J [0.0006 J]	0.0009 J	0.002	0.002
1,2,3-Trichlorobenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/L	NA	ID	84	NA	0.12	18	0.042	8.3	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/L	NA	300 (S)	19	0.099 (X)	0.07 (A)	300 (S)	0.07 (A)	300 (S)	0.005 U	0.005 U	0.002 U [0.002 U]	0.002 U	0.002 U [0.002 U]	0.002 U [0.002 U]	0.002 U	0.002 U	0.002 U
1,2,4-Trimethylbenzene	mg/L	56 (S)	ID	56 (S)	0.017	2.9 (E)	56 (S)	1 (E)	56 (S)	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.005 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U
1,2-Dibromoethane	mg/L	ID	ID	0.025	0.0057 (X)	0.00005 (A)	15	0.00005 (A)	2.4	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	NA	160 (S)	160 (S)	0.013	0.6 (A)	160 (S)	0.6 (A)	160 (S)	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	2,500	ID	19	0.36 (X)	0.005 (A)	59	0.005 (A)	9.6	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	550	2,800 (S)	16	0.23 (X)	0.005 (A)	36	0.005 (A)	16	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	ID	ID	61 (S)	0.045	2.9 (E)	61 (S)	1 (E)	61 (S)	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ID	ID	2	0.028	0.019	41	0.0066	18	0.001 U	0.00077 J	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	NA	ID	6.4	0.017	0.075 (A)	74 (S)	0.075 (A)	16	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U
2-Butanone	mg/L	ID	240,000 (S)	240,000 (S)	2.2	38	240,000 (S)	13	240,000 (S)	0.03 U	0.025 U	0.03 U [0.03 U]	0.03 U	0.03 U [0.03 U]	0.02 UJ [0.02 UJ]	0.02 U	0.02 U	0.02 U
2-Hexanone	mg/L	NA	ID	5,200	ID	2.9	8,700	1	4,200	0.05 U	0.05 U	0.05 UJ [0.05 UJ]	0.05 U	0.05 U [0.05 U]	0.05 U [0.05 U]	0.05 U	0.05 U	0.05 UJ
2-Methylnaphthalene	mg/L	ID	ID	25 (S)	0.019	0.75	25 (S)	0.26	25 (S)	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	ID	20,000 (S)	13,000	ID	5.2	20,000 (S)	1.8	20,000 (S)	0.05 U	0.05 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.01 UJ [0.01 UJ]	0.01 U	0.01 U	0.01 U
Acetone	mg/L	15,000	1,000,000 (D)	31,000	1.7	2.1	1,000,000 (D,S)	0.73	1,000,000 (D,S)	0.05 U	0.0017 J	0.03 U [0.03 U]	0.03 U	0.03 U [0.03 U]	0.02 UJ [0.02 UJ]	0.02 U	0.02 U	0.02 U
Acrylonitrile	mg/L	6,400	ID	14	0.002 (M)	0.011	190	0.0026	34	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	68	67	11	0.2 (X)	0.005 (A)	35	0.005 (A)	5.6	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U
Bromobenzene	mg/L	ID	ID	12	NA	0.05	390	0.018	180	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/L	ID	ID	14	ID	0.08 (A,W)	37	0.08 (A,W)	4.8	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	ID	ID	140	ID	0.08 (A,W)	3,100 (S)	0.08 (A,W)	470	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U
Bromomethane	mg/L	ID	ID	70	0.035	0.029	9	0.01	4	0.005 U	0.001 UJ	R [R]	0.002 U	0.002 U [0.002 U]	0.002 U [0.002 U]	0.002 UJ	0.002 UJ	0.002 UJ
Carbon Disulfide	mg/L	13	ID	1,200 (S)	ID	2.3	550	0.8	250	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U	0.005 U [0.005 U]	0.005 U [0.005 U]	0.005 U	0.005 U	0.005 U
Carbon Tetrachloride	mg/L	ID	96	4.6	0.045 (X)	0.005 (A)	2.4	0.005 (A)	0.37	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	160	ID	86	0.025	0.1 (A)	470 (S)	0.1 (A)	210	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	110	ID	440	1.1 (X)	1.7	5,700 (S)	0.43	5,700 (S)	0.01	0.001 U	0.002 [0.001]	0.001 U	0.005 [0.006]	0.001 U [0.001 U]	0.001 UJ	0.001 UJ	0.001 UJ
Chloroform	mg/L	ID	ID	150	0.35	0.08 (A,W)	180	0.08 (A,W)	28	0.001 U	0.001 U	0.001 UJ [0.001 UJ]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U
Chloromethane	mg/L	36	210	490	ID	1.1	45	0.26	8.6	0.005 U	0.001 UJ	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	530	ID	200	0.62	0.07 (A)	210	0.07 (A)	93	0.004	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.0002 J	0.0002 J
cis-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	0.003 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U
Dibromochloromethane	mg/L	ID	ID	18	ID	0.08 (A,W)	110	0.08 (A,W)	14	0.005 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U
Dibromomethane	mg/L	ID	ID	530	NA	0.23	ID	0.08	ID	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/L	ID	ID	300 (S)	ID	4.8	300 (S)	1.7	220	0.005 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U
Diethyl ether	mg/L	650	61,000 (S)	35,000	ID	10 (E)	61,000 (S)	3.7 (E)	61,000 (S)	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	43	170 (S)	170 (S)	0.018	0.7 (E)	170 (S)	0.7 (E)	110	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U
Hexachloroethane	mg/L	ID	ID	1.9	0.0067 (X)	0.021	50 (S)	0.0073	27	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	29	ID	56 (S)	0.028	2.3	56 (S)	0.8	56 (S)	0.005 U	0.005 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U
m&p-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.002 U	0.002 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U
Methyl acetate	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	0.003 U	0.01 U [0.01 U]	0.01 U	0.01 U [0.01 U]	0.01 UJ [0.01 UJ]	0.01 U	0.01 U	0.01 U
Methyl tert-butyl ether	mg/L	ID	ID	610	7.1 (X)	0.69 (E)	47,000 (S)	0.24 (E)	47,000 (S)	0.005 U	0.005 U	0.0002 J [0.0003 J]	0.005 U	0.004 J [0.004 J]	0.005 U [0.005 U]	0.005 U	0.005 U	0.005 U
Methylcyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	0.003 U	0.02 U [0.02 U]	0.02 U	0.02 U [0.02 U]	0.02 UJ [0.02 UJ]	0.02 U	0.02 U	0.02 U
Methylene Chloride	mg/L	ID	ID	220	1.5 (X)	0.005 (A)	1,400	0.005 (A)	220	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U	0.005 U [0.005 U]	0.005 UJ [0.005 UJ]	0.005 U	0.005 U	0.005 U
Naphthalene	mg/L	NA	31 (S)	31 (S)	0.011	1.5	31 (S)	0.52	31 (S)	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	ID	ID	5.9	ID	0.23	ID	0.08	ID	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	ID	ID	15	ID	0.23	ID	0.08	ID	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U

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RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-36-47 10/15/10	RFI-36-48 12/13/02	RFI-36-48 02/28/05	RFI-36-48 06/10/05	RFI-36-48 12/09/05	RFI-36-48 09/30/07	RFI-36-48 03/20/08	RFI-36-48 06/19/08	RFI-36-48 09/17/08
p-Isopropyltoluene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	ID	ID	4.4	ID	0.23	ID	0.08	ID	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	140	310 (S)	9.7	0.08 (X)	0.1 (A)	310 (S)	0.1 (A)	170	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U
tert-Butylbenzene	mg/L	ID	ID	8.9	ID	0.23	ID	0.08	ID	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	ID	200 (S)	12	0.06 (X)	0.005 (A)	170	0.005 (A)	25	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U
Tetrahydrofuran	mg/L	60	3,600	1,600	11 (X)	0.27	16,000	0.095	6,900	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/L	61	ID	530 (S)	0.27	1 (E)	530 (S)	1 (E)	530 (S)	0.001 U	0.00086 J	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	230	ID	220	1.5 (X)	0.1 (A)	200	0.1 (A)	85	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ID	1,100 (S)	22	0.2 (X)	0.005 (A)	97	0.005 (A)	15	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane	mg/L	ID	1,100 (S)	1,100 (S)	NA	7.3	1,100 (S)	2.6	1,100 (S)	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U [0.001 U]	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U
Vinyl Chloride	mg/L	33	ID	1	0.013 (X)	0.002 (A)	13	0.002 (A)	1.1	0.002	0.001 U	**0.005 (NDW,RDW) [0.006 (NDW,RDW)]**	**0.004 (NDW,RDW)**	**0.064 (NDW,RDW) [0.064 (NDW,RDW)]**	**0.003 (NDW,RDW) [0.003 (NDW,RDW)]**	**0.003 (NDW,RDW)**	0.002	**0.003 (NDW,RDW)**
PCB																		
Total PCBs	mg/L	ID	ID	0.0033 (AA)	0.0002 (M	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved																		
Total PCBs (Dissolved)	mg/L	ID	ID	0.0033 (AA)	0.0002 (M)	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																		
Antimony	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved																		
Antimony (Dissolved)	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-36-48 12/04/08	RFI-36-48 10/15/10	RFI-36-48 10/26/11	RFI-36-55 07/06/05	RFI-36-55 12/09/05	RFI-36-55 06/26/07	RFI-36-55 10/30/07	RFI-36-55 03/20/08	RFI-36-55 06/18/08	RFI-36-55 09/17/08	RFI-36-55 12/04/08	RFI-36-55R 10/27/11	RFI-36-56 07/21/05	RFI-36-56 12/09/05	RFI-36-56 06/26/07	RFI-36-56 10/30/07	RFI-36-56 03/20/08
VOC																										
1,1,1,2-Tetrachloroethane	mg/L	ID	ID	30	ID	0.32	96	0.077	15	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/L	ID	1,300 (S)	1,300 (S)	0.089	0.2 (A)	1,300 (S)	0.2 (A)	660	0.003	0.007	0.002	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	ID	ID	4.7	0.078 (X)	0.035	77	0.0085	12	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/L	ID	170 (S)	170 (S)	0.032	170 (S)	170 (S)	170 (S)	170 (S)	0.03 U	NA	0.03 U	0.03 U	0.03 U	0.03 UJ	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 UJ	0.03 U	0.03 U
1,1,2-Trichloroethane	mg/L	NA	ID	21	0.33 (X)	0.005 (A)	110	0.005 (A)	17	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	380	ID	2,400	0.74	2.5	2,300	0.88	1,000	0.016	0.049	0.015	0.001 U	0.001 U	0.002	0.002	0.013	0.033	0.045	0.061	0.121	0.004	0.005	0.004	0.004	0.0003 J
1,1-Dichloroethene	mg/L	97	140	11	0.13	0.007 (A)	1.3	0.007 (A)	0.2	0.004	0.006	0.003	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.003	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,3-Trichlorobenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/L	NA	ID	84	NA	0.12	18	0.042	8.3	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/L	NA	300 (S)	19	0.099 (X)	0.07 (A)	300 (S)	0.07 (A)	300 (S)	0.002 U	0.005 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
1,2,4-Trimethylbenzene	mg/L	56 (S)	ID	56 (S)	0.017	2.9 (E)	56 (S)	1 (E)	56 (S)	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U
1,2-Dibromoethane	mg/L	ID	ID	0.025	0.0057 (X)	0.00005 (A)	15	0.00005 (A)	2.4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	NA	160 (S)	160 (S)	0.013	0.6 (A)	160 (S)	0.6 (A)	160 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	2,500	ID	19	0.36 (X)	0.005 (A)	59	0.005 (A)	9.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	550	2,800 (S)	16	0.23 (X)	0.005 (A)	36	0.005 (A)	16	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	ID	ID	61 (S)	0.045	2.9 (E)	61 (S)	1 (E)	61 (S)	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ID	ID	2	0.028	0.019	41	0.0066	18	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	NA	ID	6.4	0.017	0.075 (A)	74 (S)	0.075 (A)	16	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone	mg/L	ID	240,000 (S)	240,000 (S)	2.2	38	240,000 (S)	13	240,000 (S)	0.02 UJ	0.03 U	0.02 U	0.03 U	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.03 U	0.03 U	0.02 U	0.02 U	0.02 U
2-Hexanone	mg/L	NA	ID	5,200	ID	2.9	8,700	1	4,200	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U
2-Methylnaphthalene	mg/L	ID	ID	25 (S)	0.019	0.75	25 (S)	0.26	25 (S)	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	ID	20,000 (S)	13,000	ID	5.2	20,000 (S)	1.8	20,000 (S)	0.01 U	0.05 U	0.01 U	0.001 U	0.001 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.001 U	0.001 U	0.01 U	0.01 U	0.01 U
Acetone	mg/L	15,000	1,000,000 (D)	31,000	1.7	2.1	1,000,000 (D,S)	0.73	1,000,000 (D,S)	0.02 UJ	0.05 U	0.02 U	0.03 U	0.03 U	0.007 J	0.005 J	0.02 U	0.003 J	0.02 U	0.02 UJ	0.02 U	0.03 U	0.03 U	R	0.02 U	0.02 U
Acrylonitrile	mg/L	6,400	ID	14	0.002 (M)	0.011	190	0.0026	34	NA	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	68	67	11	0.2 (X)	0.005 (A)	35	0.005 (A)	5.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromobenzene	mg/L	ID	ID	12	NA	0.05	390	0.018	180	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/L	ID	ID	14	ID	0.08 (A,W)	37	0.08 (A,W)	4.8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	ID	ID	140	ID	0.08 (A,W)	3,100 (S)	0.08 (A,W)	470	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane	mg/L	ID	ID	70	0.035	0.029	9	0.01	4	0.002 U	0.005 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 UJ	0.002 UJ	0.002 UJ	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 UJ
Carbon Disulfide	mg/L	13	ID	1,200 (S)	ID	2.3	550	0.8	250	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon Tetrachloride	mg/L	ID	96	4.6	0.045 (X)	0.005 (A)	2.4	0.005 (A)	0.37	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	160	ID	86	0.025	0.1 (A)	470 (S)	0.1 (A)	210	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	110	ID	440	1.1 (X)	1.7	5,700 (S)	0.43	5,700 (S)	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 UJ	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 UJ
Chloroform	mg/L	ID	ID	150	0.35	0.08 (A,W)	180	0.08 (A,W)	28	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane	mg/L	36	210	490	ID	1.1	45	0.26	8.6	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	530	ID	200	0.62	0.07 (A)	210	0.07 (A)	93	0.0004 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 UJ	0.001 U	0.001 U
Dibromochloromethane	mg/L	ID	ID	18	ID	0.08 (A,W)	110	0.08 (A,W)	14	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromomethane	mg/L	ID	ID	530	NA	0.23	ID	0.08	ID	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/L	ID	ID	300 (S)	ID	4.8	300 (S)	1.7	220	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	R	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	R	0.001 U	0.001 U
Diethyl ether	mg/L	650	61,000 (S)	35,000	ID	10 (E)	61,000 (S)	3.7 (E)	61,000 (S)	NA	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	43	170 (S)	170 (S)	0.018	0.7 (E)	170 (S)	0.7 (E)	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0001 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Hexachloroethane	mg/L	ID	ID	1.9	0.0067 (X)	0.021	50 (S)	0.0073	27	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	29	ID	56 (S)	0.028	2.3	56 (S)	0.8	56 (S)	0.001 U	0.005 U	0.001 U	0.0002 J	0.001 U	0.001	0.0009 J	0.0003 J	0.0003 J	0.0006 J	0.0007 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
m&p-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.002 U	0.002 U	0.001 U	0.001 U	0.0001 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methyl acetate	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.01 U	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Methyl tert-butyl ether	mg/L	ID	ID	610	7.1 (X)	0.69 (E)	47,000 (S)	0.24 (E)	47,000 (S)	0.005 U	0.005 U	0.005 U	0.005 U	0.001 J	0.0002 J	0.0004 J	0.0003 J	0.005 U	0.0003 J	0.0004 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methylcyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.02 U	NA	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U
Methylene Chloride	mg/L	ID	ID	220	1.5 (X)	0.005 (A)	1,400	0.005 (A)	220	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Naphthalene	mg/L	NA	31 (S)	31 (S)	0.011	1.5	31 (S)	0.52	31 (S)	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	ID	ID	5.9	ID	0.23	ID	0.08	ID	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	ID	ID	15	ID	0.23	ID	0.08	ID	NA	0.001 U	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
o-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-36-48 12/04/08	RFI-36-48 10/15/10	RFI-36-48 10/26/11	RFI-36-55 07/06/05	RFI-36-55 12/09/05	RFI-36-55 06/26/07	RFI-36-55 10/30/07	RFI-36-55 03/20/08	RFI-36-55 06/18/08	RFI-36-55 09/17/08	RFI-36-55 12/04/08	RFI-36-55R 10/27/11	RFI-36-56 07/21/05	RFI-36-56 12/09/05	RFI-36-56 06/26/07	RFI-36-56 10/30/07	RFI-36-56 03/20/08
p-Isopropyltoluene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	ID	ID	4.4	ID	0.23	ID	0.08	ID	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	140	310 (S)	9.7	0.08 (X)	0.1 (A)	310 (S)	0.1 (A)	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
tert-Butylbenzene	mg/L	ID	ID	8.9	ID	0.23	ID	0.08	ID	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	ID	200 (S)	12	0.06 (X)	0.005 (A)	170	0.005 (A)	25	0.001 U	0.001 U	0.001 U	0.001 J	0.001 U	0.001 U	0.0002 J	0.005	**0.006 (NDW,RDW)**	0.005	0.0005 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrahydrofuran	mg/L	60	3,600	1,600	11 (X)	0.27	16,000	0.095	6,900	NA	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/L	61	ID	530 (S)	0.27	1 (E)	530 (S)	1 (E)	530 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	230	ID	220	1.5 (X)	0.1 (A)	200	0.1 (A)	85	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ID	1,100 (S)	22	0.2 (X)	0.005 (A)	97	0.005 (A)	15	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0003 J	0.0008 J	0.0005 J	0.0005 J	0.001 U
Trichlorofluoromethane	mg/L	ID	1,100 (S)	1,100 (S)	NA	7.3	1,100 (S)	2.6	1,100 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U
Vinyl Chloride	mg/L	33	ID	1	0.013 (X)	0.002 (A)	13	0.002 (A)	1.1	0.001 U	**0.003 (NDW,RDW)**	0.001 U	0.001 U	0.001 U	0.001 UJ	0.0009 J	0.0006 J	0.001 U	0.0002 J	0.001 J	**0.009 (NDW,RDW)**	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U
PCB																										
Total PCBs	mg/L	ID	ID	0.0033 (AA)	0.0002 (M	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved																										
Total PCBs (Dissolved)	mg/L	ID	ID	0.0033 (AA)	0.0002 (M)	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																										
Antimony	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved																										
Antimony (Dissolved)	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-36-56 06/18/08	RFI-36-56 09/17/08	RFI-36-56 12/04/08	RFI-36-56 10/24/11	RFI-44-05 09/14/01	RFI-44-05 12/20/02	RFI-44-05 03/24/03	RFI-44-05 10/05/04	RFI-44-05 10/26/10	RFI-44-05 10/21/11	RFI-81-08 09/24/01	RFI-81-08 06/17/02	RFI-81-08 04/01/03	RFI-81-08 10/07/04
VOC																							
1,1,1,2-Tetrachloroethane	mg/L	ID	ID	30	ID	0.32	96	0.077	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/L	ID	1,300 (S)	1,300 (S)	0.089	0.2 (A)	1,300 (S)	0.2 (A)	660	0.001 U	0.0002 J	0.0004 J	0.003	0.001 U	NA	NA	0.001 U	NA	NA	0.0012	0.0011	0.001 U	0.0004 J
1,1,2,2-Tetrachloroethane	mg/L	ID	ID	4.7	0.078 (X)	0.035	77	0.0085	12	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	NA	NA	0.001 UJ	0.001 U	0.001 U	0.001 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/L	ID	170 (S)	170 (S)	0.032	170 (S)	170 (S)	170 (S)	170 (S)	0.03 U	0.03 U	0.03 U	0.03 U	0.001 U	NA	NA	0.03 U	NA	NA	0.001 U	0.001 U	0.001 U	0.03 U
1,1,2-Trichloroethane	mg/L	NA	ID	21	0.33 (X)	0.005 (A)	110	0.005 (A)	17	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	380	ID	2,400	0.74	2.5	2,300	0.88	1,000	0.003	0.008	0.007	0.009	0.001 U	NA	NA	0.001 U	NA	NA	0.0031	0.0011	0.0047	0.002
1,1-Dichloroethene	mg/L	97	140	11	0.13	0.007 (A)	1.3	0.007 (A)	0.2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U
1,2,3-Trichlorobenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/L	NA	ID	84	NA	0.12	18	0.042	8.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/L	NA	300 (S)	19	0.099 (X)	0.07 (A)	300 (S)	0.07 (A)	300 (S)	0.002 U	0.002 U	0.002 U	0.002 U	0.005 U	NA	NA	0.002 U	NA	NA	0.005 U	0.005 U	0.005 U	0.002 U
1,2,4-Trimethylbenzene	mg/L	56 (S)	ID	56 (S)	0.017	2.9 (E)	56 (S)	1 (E)	56 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 UJ	0.001 U
1,2-Dibromoethane	mg/L	ID	ID	0.025	0.0057 (X)	0.00005 (A)	15	0.00005 (A)	2.4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	NA	160 (S)	160 (S)	0.013	0.6 (A)	160 (S)	0.6 (A)	160 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	2,500	ID	19	0.36 (X)	0.005 (A)	59	0.005 (A)	9.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	550	2,800 (S)	16	0.23 (X)	0.005 (A)	36	0.005 (A)	16	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	ID	ID	61 (S)	0.045	2.9 (E)	61 (S)	1 (E)	61 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ID	ID	2	0.028	0.019	41	0.0066	18	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	NA	ID	6.4	0.017	0.075 (A)	74 (S)	0.075 (A)	16	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone	mg/L	ID	240,000 (S)	240,000 (S)	2.2	38	240,000 (S)	13	240,000 (S)	0.02 U	0.02 U	0.02 U	0.02 U	0.025 U	NA	NA	0.03 U	NA	NA	0.025 U	0.025 U	0.025 U	0.03 U
2-Hexanone	mg/L	NA	ID	5,200	ID	2.9	8,700	1	4,200	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	NA	NA	0.05 UJ	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U
2-Methylnaphthalene	mg/L	ID	ID	25 (S)	0.019	0.75	25 (S)	0.26	25 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	ID	20,000 (S)	13,000	ID	5.2	20,000 (S)	1.8	20,000 (S)	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	NA	NA	0.001 U	NA	NA	0.05 U	0.05 U	0.05 U	0.001 U
Acetone	mg/L	15,000	1,000,000 (D)	31,000	1.7	2.1	1,000,000 (D,S)	0.73	1,000,000 (D,S)	0.02 U	0.02 U	0.02 UJ	0.02 U	0.025 U	NA	NA	0.006 J	NA	NA	0.025 U	0.025 U	0.025 U	0.03 U
Acrylonitrile	mg/L	6,400	ID	14	0.002 (M)	0.011	190	0.0026	34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	68	67	11	0.2 (X)	0.005 (A)	35	0.005 (A)	5.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U
Bromobenzene	mg/L	ID	ID	12	NA	0.05	390	0.018	180	NA	NA	NA	NA	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/L	ID	ID	14	ID	0.08 (A,W)	37	0.08 (A,W)	4.8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	ID	ID	140	ID	0.08 (A,W)	3,100 (S)	0.08 (A,W)	470	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 UJ	NA	NA	0.001 U	0.001 U	0.001 U	0.001 UJ
Bromomethane	mg/L	ID	ID	70	0.035	0.029	9	0.01	4	0.002 UJ	0.002 UJ	0.002 U	0.002 U	0.001 U	NA	NA	0.002 UJ	NA	NA	0.001 U	0.001 U	0.001 U	0.002 UJ
Carbon Disulfide	mg/L	13	ID	1,200 (S)	ID	2.3	550	0.8	250	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA	0.005 U	NA	NA	0.005 U	0.005 U	0.005 U	0.005 UJ
Carbon Tetrachloride	mg/L	ID	96	4.6	0.045 (X)	0.005 (A)	2.4	0.005 (A)	0.37	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	160	ID	86	0.025	0.1 (A)	470 (S)	0.1 (A)	210	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	110	ID	440	1.1 (X)	1.7	5,700 (S)	0.43	5,700 (S)	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U	NA	NA	0.001 UJ	NA	NA	0.001 UJ	0.001 U	0.001 U	0.001 UJ
Chloroform	mg/L	ID	ID	150	0.35	0.08 (A,W)	180	0.08 (A,W)	28	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane	mg/L	36	210	490	ID	1.1	45	0.26	8.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	NA	NA	0.001 UJ	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	530	ID	200	0.62	0.07 (A)	210	0.07 (A)	93	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	NA	NA	0.0036	0.0014	0.05	0.025
cis-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	NA	NA	0.001 U	NA	NA	0.005 U	0.005 U	0.005 U	0.001 UJ
Dibromochloromethane	mg/L	ID	ID	18	ID	0.08 (A,W)	110	0.08 (A,W)	14	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U
Dibromomethane	mg/L	ID	ID	530	NA	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/L	ID	ID	300 (S)	ID	4.8	300 (S)	1.7	220	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 UJ
Diethyl ether	mg/L	650	61,000 (S)	35,000	ID	10 (E)	61,000 (S)	3.7 (E)	61,000 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	43	170 (S)	170 (S)	0.018	0.7 (E)	170 (S)	0.7 (E)	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U
Hexachloroethane	mg/L	ID	ID	1.9	0.0067 (X)	0.021	50 (S)	0.0073	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	29	ID	56 (S)	0.028	2.3	56 (S)	0.8	56 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	NA	NA	0.001 U	NA	NA	0.005 U	0.005 U	0.005 U	0.001 U
m&p-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U	NA	NA	0.001 U	NA	NA	0.002 U	0.002 U	0.002 U	0.001 U
Methyl acetate	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.01 U	0.01 U	0.01 U	0.01 U	0.005 U	NA	NA	0.01 U	NA	NA	0.005 U	0.005 U	0.005 U	0.01 U
Methyl tert-butyl ether	mg/L	ID	ID	610	7.1 (X)	0.69 (E)	47,000 (S)	0.24 (E)	47,000 (S)	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA	0.005 U	NA	NA	0.005 U	0.005 U	0.005 U	0.005 U
Methylcyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.02 U	0.02 U	0.02 U	0.02 U	0.001 U	NA	NA	0.02 U	NA	NA	0.001 U	0.001 U	0.001 U	0.02 U
Methylene Chloride	mg/L	ID	ID	220	1.5 (X)	0.005 (A)	1,400	0.005 (A)	220	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	NA	0.005 U	NA	NA	0.005 U	0.005 UJ	0.005 U	0.005 U
Naphthalene	mg/L	NA	31 (S)	31 (S)	0.011	1.5	31 (S)	0.52	31 (S)	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	ID	ID	5.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	ID	ID	15	ID	0.23	ID	0.08	ID	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-36-56 06/18/08	RFI-36-56 09/17/08	RFI-36-56 12/04/08	RFI-36-56 10/24/11	RFI-44-05 09/14/01	RFI-44-05 12/20/02	RFI-44-05 03/24/03	RFI-44-05 10/05/04	RFI-44-05 10/26/10	RFI-44-05 10/21/11	RFI-81-08 09/24/01	RFI-81-08 06/17/02	RFI-81-08 04/01/03	RFI-81-08 10/07/04
p-Isopropyltoluene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	ID	ID	4.4	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	140	310 (S)	9.7	0.08 (X)	0.1 (A)	310 (S)	0.1 (A)	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U
tert-Butylbenzene	mg/L	ID	ID	8.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	ID	200 (S)	12	0.06 (X)	0.005 (A)	170	0.005 (A)	25	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	NA	NA	0.001 UJ	0.001 UJ	0.001 U	0.001 U
Tetrahydrofuran	mg/L	60	3,600	1,600	11 (X)	0.27	16,000	0.095	6,900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/L	61	ID	530 (S)	0.27	1 (E)	530 (S)	1 (E)	530 (S)	0.0001 J	0.0001 J	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	230	ID	220	1.5 (X)	0.1 (A)	200	0.1 (A)	85	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.0047	0.003 J
trans-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ID	1,100 (S)	22	0.2 (X)	0.005 (A)	97	0.005 (A)	15	0.0002 J	0.0007 J	0.0004 J	0.001 U	0.001 U	NA	NA	0.001 U	NA	NA	**0.011 (NDW,RDW)**	**0.0077 (NDW,RDW)**	0.0026	0.002
Trichlorofluoromethane	mg/L	ID	1,100 (S)	1,100 (S)	NA	7.3	1,100 (S)	2.6	1,100 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl Chloride	mg/L	33	ID	1	0.013 (X)	0.002 (A)	13	0.002 (A)	1.1	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 U	NA	NA	**0.0067 (NDW,RDW)**	0.0006 J	**0.029 (NDW,RDW)**	**0.008 (NDW,RDW)**
PCB																							
Total PCBs	mg/L	ID	ID	0.0033 (AA)	0.0002 (M	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	0.0001 U	0.00012 U	0.0001 U [0.0001 U]	NA	NA	NA	0.00011 U	NA	NA	NA
PCB-Dissolved																							
Total PCBs (Dissolved)	mg/L	ID	ID	0.0033 (AA)	0.0002 (M)	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	**0.00109 (NDW,RDW)**	0.00011 U	NA	NA	NA	NA	0.00011 U	NA	NA	NA
Inorganic																							
Antimony	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	**0.042 J (NDW,RDW)**	0.0027	0.005 U	NA	NA	NA	0.0012 U	0.0012 U	NA
Arsenic	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	**0.033 J (NDW,RDW)**	0.0069	NA	NA	NA	NA	0.0011 J	0.0073	NA
Barium	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	0.29	0.043 J	NA	NA	NA	NA	0.13	1.0	NA
Beryllium	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	0.00040 U	0.00040 U	NA	NA	NA	NA	0.00040 UJ	0.00040 U	NA
Cadmium	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	0.0043 J	0.00013 J	NA	NA	NA	NA	0.00020 U	0.00020 U	NA
Chromium Total	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	**0.38 J (NDW,RDW)**	0.0027	0.005	NA	NA	NA	0.00054 J	0.0013	NA
Cobalt	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	0.025 J	0.0042	NA	NA	NA	NA	0.00058	0.0033	NA
Copper	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	0.22 J	0.0099	NA	NA	NA	NA	0.0044	0.0033	NA
Cyanide (total)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	0.0067 JDM	0.019	NA	0.005 U	0.005 U	0.0019 J	0.005 U	0.0028 J	NA
Lead	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	**0.075 J (NDW,RDW)**	0.0016	0.003 U	NA	NA	NA	0.00067	0.00039 J	0.003 U
Manganese	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	0.41	0.14	NA	NA	NA	NA	**1.4 J (RDW)**	**3.3 J (NDW,RDW)**	**1.36 (RDW)**
Mercury	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	0.0002 U	0.0002 U	NA	NA	NA	0.0002 U	0.0002 U	0.0002 U	NA
Nickel	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	**0.51 J (NDW,RDW)**	0.012	0.026	NA	NA	NA	0.015	0.031	NA
Selenium	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	0.034	0.0096	0.005 U	NA	NA	NA	0.0014 U	0.0019 J	NA
Silver	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	0.000085 J	0.00040 U	NA	NA	NA	NA	0.00040 U	0.00040 U	NA
Thallium	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	0.00020 U	0.00020 U	NA	NA	NA	NA	0.00020 U	0.00020 U	NA
Vanadium	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	**0.0050 J (RDW)**	0.0016	NA	NA	NA	NA	0.00080 U	0.00080 U	NA
Zinc	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	0.62 J	0.042 U	NA	NA	NA	NA	0.012	0.027	NA
Inorganic-Dissolved																							
Antimony (Dissolved)	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	0.0012 U	**0.029 J (NDW,RDW)**	NA	NA	NA	NA	0.0012 U	0.0012 U	NA	NA
Arsenic (Dissolved)	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	0.0031	**0.036 J (NDW,RDW)**	NA	NA	NA	NA	0.0078 J	0.0010	NA	NA
Barium (Dissolved)	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	0.22	0.18 J	NA	NA	NA	NA	0.43 J	0.14	NA	NA
Beryllium (Dissolved)	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	0.00040 U	R	NA	NA	NA	NA	0.00040 U	0.00040 UJ	NA	NA
Cadmium (Dissolved)	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	0.00020 U	0.0022 J	NA	NA	NA	NA	0.00020 U	0.00020 U	NA	NA
Chromium Total (Dissolved)	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	0.0020 U	**0.22 J (NDW,RDW)**	NA	NA	NA	NA	0.00086	0.0020	NA	NA
Cobalt (Dissolved)	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	0.0022	0.017 J	NA	NA	NA	NA	0.0023	0.00060	NA	NA
Copper (Dissolved)	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	0.0034 U	0.13 J	NA	NA	NA	NA	0.015	0.0050	NA	NA
Cyanide (dissolved)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	0.005 U	0.0054 J	NA	NA	NA	NA	0.0027 J	0.005 U	NA	NA
Lead (Dissolved)	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	0.00040 U	**0.018 J (NDW,RDW)**	NA	NA	NA	NA	0.00040 U	0.00040 U	NA	NA
Manganese (Dissolved)	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	0.15	0.43 J	NA	NA	NA	NA	**1.9 J (RDW)**	**1.6 (RDW)**	NA	NA
Mercury (Dissolved)	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	0.0002 U	R	NA	NA	NA	NA	0.0002 U	0.0002 U	NA	NA
Nickel (Dissolved)	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	0.027	**0.36 J (NDW,RDW)**	NA	NA	NA	NA	0.016	0.015	NA	NA
Selenium (Dissolved)	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	**0.052 (NDW,RDW)**	**0.051 J (NDW,RDW)**	NA	NA	NA	NA	0.0023 U	0.0014 U	NA	NA
Silver (Dissolved)	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	0.00040 U	R	NA	NA	NA	NA	0.00040 UJ	0.00040 U	NA	NA
Thallium (Dissolved)	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	0.00020 U	R	NA	NA	NA	NA	0.00020 U	0.00020 U	NA	NA
Vanadium (Dissolved)	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	0.00080 U	**0.0074 J (RDW)**	NA	NA	NA	NA	0.00080 U	0.00080 U	NA	NA
Zinc (Dissolved)	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	0.014 J	0.19 J	NA	NA	NA	NA	0.021	0.014	NA	NA

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-81-08 02/24/05	RFI-81-08 10/18/10	RFI-81-50 04/04/05	RFI-81-50 11/02/06	RFI-81-50 10/31/07	RFI-81-50 09/16/08	RFI-81-50 09/24/09	RFI-81-50 10/18/10	RFI-81-50 10/24/11	RFI-81-51 04/04/05	RFI-81-51 10/29/07	RFI-81-51 09/16/08	RFI-81-51 09/24/09
VOC																						
1,1,1,2-Tetrachloroethane	mg/L	ID	ID	30	ID	0.32	96	0.077	15	NA	0.001 U	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/L	ID	1,300 (S)	1,300 (S)	0.089	0.2 (A)	1,300 (S)	0.2 (A)	660	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U [0.001 U]	0.0008 J	0.002	0.005 U
1,1,2,2-Tetrachloroethane	mg/L	ID	ID	4.7	0.078 (X)	0.035	77	0.0085	12	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U [0.001 U]	0.001 U	0.001 U	0.005 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/L	ID	170 (S)	170 (S)	0.032	170 (S)	170 (S)	170 (S)	170 (S)	0.03 U	NA	NA	0.03 U	0.03 U	0.03 U	0.03 U	NA	NA	0.03 U [0.03 U]	0.03 U	0.03 U	0.2 U
1,1,2-Trichloroethane	mg/L	NA	ID	21	0.33 (X)	0.005 (A)	110	0.005 (A)	17	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U [0.001 U]	0.001 U	0.001 U	0.005 U
1,1-Dichloroethane	mg/L	380	ID	2,400	0.74	2.5	2,300	0.88	1,000	0.002	0.002	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.004 [0.004]	0.004	0.001	0.005
1,1-Dichloroethene	mg/L	97	140	11	0.13	0.007 (A)	1.3	0.007 (A)	0.2	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.0006 J [0.0005 J]	0.0004 J	0.001 U	0.005 U
1,2,3-Trichlorobenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	0.005 U	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/L	NA	ID	84	NA	0.12	18	0.042	8.3	NA	0.001 U	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	0.001 U	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/L	NA	300 (S)	19	0.099 (X)	0.07 (A)	300 (S)	0.07 (A)	300 (S)	0.002 U	0.005 U	NA	0.002 U	0.002 U	0.002 U	0.002 U	0.005 U	NA	0.002 U [0.002 U]	0.002 U	0.002 U	0.01 U
1,2,4-Trimethylbenzene	mg/L	56 (S)	ID	56 (S)	0.017	2.9 (E)	56 (S)	1 (E)	56 (S)	NA	0.001 U	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.005 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	NA	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.005 U
1,2-Dibromoethane	mg/L	ID	ID	0.025	0.0057 (X)	0.00005 (A)	15	0.00005 (A)	2.4	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U [0.001 U]	0.001 U	0.001 U	0.005 U
1,2-Dichlorobenzene	mg/L	NA	160 (S)	160 (S)	0.013	0.6 (A)	160 (S)	0.6 (A)	160 (S)	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U [0.001 U]	0.001 U	0.001 U	0.005 U
1,2-Dichloroethane	mg/L	2,500	ID	19	0.36 (X)	0.005 (A)	59	0.005 (A)	9.6	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U [0.001 U]	0.001 U	0.001 U	0.005 U
1,2-Dichloropropane	mg/L	550	2,800 (S)	16	0.23 (X)	0.005 (A)	36	0.005 (A)	16	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U [0.001 U]	0.001 U	0.001 U	0.005 U
1,3,5-Trimethylbenzene	mg/L	ID	ID	61 (S)	0.045	2.9 (E)	61 (S)	1 (E)	61 (S)	NA	0.001 U	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ID	ID	2	0.028	0.019	41	0.0066	18	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U [0.001 U]	0.001 U	0.001 U	0.005 U
1,4-Dichlorobenzene	mg/L	NA	ID	6.4	0.017	0.075 (A)	74 (S)	0.075 (A)	16	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U [0.001 U]	0.001 U	0.001 U	0.005 U
2-Butanone	mg/L	ID	240,000 (S)	240,000 (S)	2.2	38	240,000 (S)	13	240,000 (S)	0.03 U	0.03 UJ	NA	0.02 UJ	0.02 U	0.02 U	0.02 U	0.03 UJ	NA	0.03 U [0.03 U]	0.02 U	0.02 U	0.1 U
2-Hexanone	mg/L	NA	ID	5,200	ID	2.9	8,700	1	4,200	0.05 U	0.05 U	NA	0.05 UJ	0.05 U	0.05 UJ	0.05 U	0.05 UJ	NA	0.05 U [0.05 U]	0.05 U	0.05 UJ	0.3 U
2-Methylnaphthalene	mg/L	ID	ID	25 (S)	0.019	0.75	25 (S)	0.26	25 (S)	NA	0.005 U	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	ID	20,000 (S)	13,000	ID	5.2	20,000 (S)	1.8	20,000 (S)	0.001 U	0.05 U	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	NA	0.001 U [0.001 U]	0.01 U	0.01 U	0.05 U
Acetone	mg/L	15,000	1,000,000 (D)	31,000	1.7	2.1	1,000,000 (D,S)	0.73	1,000,000 (D,S)	0.008 J	0.05 UJ	NA	0.02 UJ	0.02 U	0.02 U	0.02 U	0.05 UJ	NA	0.03 U [0.03 U]	0.02 U	0.02 UJ	0.1 U
Acrylonitrile	mg/L	6,400	ID	14	0.002 (M)	0.011	190	0.0026	34	NA	0.002 U	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA
Benzene	mg/L	68	67	11	0.2 (X)	0.005 (A)	35	0.005 (A)	5.6	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U [0.001 U]	0.001 U	0.001 U	0.0006
Bromobenzene	mg/L	ID	ID	12	NA	0.05	390	0.018	180	NA	0.001 U	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
Bromochloromethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	0.001 U	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
Bromodichloromethane	mg/L	ID	ID	14	ID	0.08 (A,W)	37	0.08 (A,W)	4.8	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U [0.001 U]	0.001 U	0.001 U	0.005 U
Bromoform	mg/L	ID	ID	140	ID	0.08 (A,W)	3,100 (S)	0.08 (A,W)	470	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.005 U
Bromomethane	mg/L	ID	ID	70	0.035	0.029	9	0.01	4	R	0.005 U	NA	0.002 U	0.002 U	0.002 UJ	0.002 U	0.005 U	NA	R [R]	0.002 U	0.002 UJ	0.01 U
Carbon Disulfide	mg/L	13	ID	1,200 (S)	ID	2.3	550	0.8	250	0.005 U	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 UJ [0.005 UJ]	0.005 U	0.005 U	0.03 U
Carbon Tetrachloride	mg/L	ID	96	4.6	0.045 (X)	0.005 (A)	2.4	0.005 (A)	0.37	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U [0.001 U]	0.001 U	0.001 U	0.005 U
Chlorobenzene	mg/L	160	ID	86	0.025	0.1 (A)	470 (S)	0.1 (A)	210	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U [0.001 U]	0.001 U	0.001 U	0.005 U
Chloroethane	mg/L	110	ID	440	1.1 (X)	1.7	5,700 (S)	0.43	5,700 (S)	0.001 U	0.005 U	NA	0.001 U	0.001 U	0.001 UJ	0.001 U	0.005 U	NA	0.001 U [0.001 U]	0.001 U	0.001 UJ	0.005 U
Chloroform	mg/L	ID	ID	150	0.35	0.08 (A,W)	180	0.08 (A,W)	28	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U [0.001 U]	0.001 U	0.001 U	0.005 U
Chloromethane	mg/L	36	210	490	ID	1.1	45	0.26	8.6	0.001 UJ	0.005 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	NA	0.001 U [0.001 U]	0.001 U	0.001 UJ	0.005 U
cis-1,2-Dichloroethene	mg/L	530	ID	200	0.62	0.07 (A)	210	0.07 (A)	93	0.024	0.008	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	**0.162 (NDW,RDW) [0.159 (NDW,RDW)]**	**0.161 (NDW,RDW)**	0.003	**0.229 (NDW,RDW)**
cis-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	NA	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U [0.001 U]	0.001 U	0.001 U	0.005 U
Cyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 UJ	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	NA	NA	0.001 UJ [0.001 UJ]	0.001 U	0.001 UJ	0.005 U
Dibromochloromethane	mg/L	ID	ID	18	ID	0.08 (A,W)	110	0.08 (A,W)	14	0.001 U	0.005 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	NA	0.001 U [0.001 U]	0.001 U	0.001 U	0.005 U
Dibromomethane	mg/L	ID	ID	530	NA	0.23	ID	0.08	ID	NA	0.005 U	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/L	ID	ID	300 (S)	ID	4.8	300 (S)	1.7	220	0.001 U	0.005 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	NA	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.005 U
Diethyl ether	mg/L	650	61,000 (S)	35,000	ID	10 (E)	61,000 (S)	3.7 (E)	61,000 (S)	NA	0.01 U	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	43	170 (S)	170 (S)	0.018	0.7 (E)	170 (S)	0.7 (E)	110	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U [0.001 U]	0.001 U	0.001 U	0.005 U
Hexachloroethane	mg/L	ID	ID	1.9	0.0067 (X)	0.021	50 (S)	0.0073	27	NA	0.005 U	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA
Iodomethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	0.001 U	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	29	ID	56 (S)	0.028	2.3	56 (S)	0.8	56 (S)	0.001 U	0.005 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	NA	0.001 U [0.001 U]	0.001 U	0.001 U	0.005 U
m&p-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.002 U	NA	0.0001 J	0.001 U	0.001 U	0.0003	0.002 U	NA	0.001 U [0.001 U]	0.001 U	0.001 U	0.005 U
Methyl acetate	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.01 U	NA	NA	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	0.01 U [0.01 U]	0.01 U	0.01 U	0.05 U
Methyl tert-butyl ether	mg/L	ID	ID	610	7.1 (X)	0.69 (E)	47,000 (S)	0.24 (E)	47,000 (S)	0.005 U	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 U [0.005 U]	0.005 U	0.005 U	0.03 U
Methylcyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.02 U	NA	NA	0.02 U	0.02 U	0.02 U	0.02 U	NA	NA	0.02 UJ [0.02 UJ]	0.02 U	0.02 U	0.1 U
Methylene Chloride	mg/L	ID	ID	220	1.5 (X)	0.005 (A)	1,400	0.005 (A)	220	0.005 U	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 U [0.005 U]	0.005 U	0.005 U	0.03 U
Naphthalene	mg/L	NA	31 (S)	31 (S)	0.011	1.5	31 (S)	0.52	31 (S)	NA	0.005 U	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	ID	ID	5.9	ID	0.23	ID	0.08	ID	NA	0.001 U	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	ID	ID	15	ID	0.23	ID	0.08	ID	NA	0.001 U	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
o-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U [0.001 U]	0.001 U	0.001 U	0.005 U

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RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-81-08 02/24/05	RFI-81-08 10/18/10	RFI-81-50 04/04/05	RFI-81-50 11/02/06	RFI-81-50 10/31/07	RFI-81-50 09/16/08	RFI-81-50 09/24/09	RFI-81-50 10/18/10	RFI-81-50 10/24/11	RFI-81-51 04/04/05	RFI-81-51 10/29/07	RFI-81-51 09/16/08	RFI-81-51 09/24/09
p-Isopropyltoluene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	0.005 U	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	ID	ID	4.4	ID	0.23	ID	0.08	ID	NA	0.001 U	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
Styrene	mg/L	140	310 (S)	9.7	0.08 (X)	0.1 (A)	310 (S)	0.1 (A)	170	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U [0.001 U]	0.001 U	0.001 UJ	0.005 U
tert-Butylbenzene	mg/L	ID	ID	8.9	ID	0.23	ID	0.08	ID	NA	0.001 U	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	ID	200 (S)	12	0.06 (X)	0.005 (A)	170	0.005 (A)	25	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U [0.001 U]	0.002	**0.006 (NDW,RDW)**	0.001
Tetrahydrofuran	mg/L	60	3,600	1,600	11 (X)	0.27	16,000	0.095	6,900	NA	0.09 U	NA	NA	NA	NA	NA	0.09 U	NA	NA	NA	NA	NA
Toluene	mg/L	61	ID	530 (S)	0.27	1 (E)	530 (S)	1 (E)	530 (S)	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.0002	0.001 U	NA	0.001 U [0.001 U]	0.001 U	0.001 U	0.005 U
trans-1,2-Dichloroethene	mg/L	230	ID	220	1.5 (X)	0.1 (A)	200	0.1 (A)	85	0.002	0.002	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.007 [0.006]	0.006	0.001 U	0.01
trans-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U [0.001 U]	0.001 U	0.001 U	0.005 U
trans-1,4-Dichloro-2-butene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	0.001 U	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ID	1,100 (S)	22	0.2 (X)	0.005 (A)	97	0.005 (A)	15	0.002	0.005	NA	0.0004 J	0.0002 J	0.001 U	0.0008	0.001 U	NA	0.0008 J [0.0008 J]	**0.025 (NDW,RDW)**	**0.07 (NDW,RDW)**	**0.01 (NDW,RDW)**
Trichlorofluoromethane	mg/L	ID	1,100 (S)	1,100 (S)	NA	7.3	1,100 (S)	2.6	1,100 (S)	0.001 U	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U [0.001 U]	0.001 U	0.001 U	0.005 U
Vinyl Chloride	mg/L	33	ID	1	0.013 (X)	0.002 (A)	13	0.002 (A)	1.1	**0.012 J (NDW,RDW)**	0.001	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	**0.064 (NDW,RDW) [0.065 (NDW,RDW)]**	**0.054 (NDW,RDW)**	0.0003 J	**0.068 (NDW,RDW)**
PCB																						
Total PCBs	mg/L	ID	ID	0.0033 (AA)	0.0002 (M	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved																						
Total PCBs (Dissolved)	mg/L	ID	ID	0.0033 (AA)	0.0002 (M)	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																						
Antimony	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	0.003 U [0.003 U]	NA	0.003 U	NA	0.003 U	NA	0.003 U	NA	NA	NA	NA
Manganese	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved																						
Antimony (Dissolved)	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-81-51 10/24/11	RFI-84-06R 04/02/03	RFI-84-06R 04/03/03	RFI-84-06R 02/25/05	RFI-84-06R 07/22/05	RFI-84-06R 12/08/05	RFI-84-06R 11/01/06	RFI-84-06R 04/24/07	RFI-84-06R 06/26/07	RFI-84-06R 10/26/07	RFI-84-06R 03/17/08	RFI-84-06R 06/17/08	RFI-84-06R 09/10/08	RFI-84-06R 12/03/08
VOC																							
1,1,1,2-Tetrachloroethane	mg/L	ID	ID	30	ID	0.32	96	0.077	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	mg/L	ID	1,300 (S)	1,300 (S)	0.089	0.2 (A)	1,300 (S)	0.2 (A)	660	0.002	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	ID	ID	4.7	0.078 (X)	0.035	77	0.0085	12	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/L	ID	170 (S)	170 (S)	0.032	170 (S)	170 (S)	170 (S)	170 (S)	0.03 U	0.001 U	NA	NA	0.03 U	0.03 U	0.03 U	0.03 U	0.03 UJ	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U
1,1,2-Trichloroethane	mg/L	NA	ID	21	0.33 (X)	0.005 (A)	110	0.005 (A)	17	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	380	ID	2,400	0.74	2.5	2,300	0.88	1,000	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.0004 J	0.0008 J	0.0007 J	0.0005 J	0.0007 J	0.0008 J	0.0007 J
1,1-Dichloroethene	mg/L	97	140	11	0.13	0.007 (A)	1.3	0.007 (A)	0.2	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,3-Trichlorobenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	mg/L	NA	ID	84	NA	0.12	18	0.042	8.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	mg/L	NA	300 (S)	19	0.099 (X)	0.07 (A)	300 (S)	0.07 (A)	300 (S)	0.002 U	0.005 U	NA	NA	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 UJ	0.002 U	0.002 U	0.002 U
1,2,4-Trimethylbenzene	mg/L	56 (S)	ID	56 (S)	0.017	2.9 (E)	56 (S)	1 (E)	56 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dibromoethane	mg/L	ID	ID	0.025	0.0057 (X)	0.00005 (A)	15	0.00005 (A)	2.4	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	NA	160 (S)	160 (S)	0.013	0.6 (A)	160 (S)	0.6 (A)	160 (S)	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.0001 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	2,500	ID	19	0.36 (X)	0.005 (A)	59	0.005 (A)	9.6	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	550	2,800 (S)	16	0.23 (X)	0.005 (A)	36	0.005 (A)	16	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	ID	ID	61 (S)	0.045	2.9 (E)	61 (S)	1 (E)	61 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	mg/L	ID	ID	2	0.028	0.019	41	0.0066	18	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	NA	ID	6.4	0.017	0.075 (A)	74 (S)	0.075 (A)	16	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone	mg/L	ID	240,000 (S)	240,000 (S)	2.2	38	240,000 (S)	13	240,000 (S)	0.02 U	0.025 U	NA	NA	0.03 U	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ
2-Hexanone	mg/L	NA	ID	5,200	ID	2.9	8,700	1	4,200	0.05 U	0.05 U	NA	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ
2-Methylnaphthalene	mg/L	ID	ID	25 (S)	0.019	0.75	25 (S)	0.26	25 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	mg/L	ID	20,000 (S)	13,000	ID	5.2	20,000 (S)	1.8	20,000 (S)	0.01 U	0.05 U	NA	NA	0.001 U	0.001 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Acetone	mg/L	15,000	1,000,000 (D)	31,000	1.7	2.1	1,000,000 (D,S)	0.73	1,000,000 (D,S)	0.02 U	0.025 U	NA	NA	0.03 U	0.03 U	0.02 U	0.01 J	0.004 J	0.02 U	0.004 J	0.02 U	0.02 U	0.02 UJ
Acrylonitrile	mg/L	6,400	ID	14	0.002 (M)	0.011	190	0.0026	34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	mg/L	68	67	11	0.2 (X)	0.005 (A)	35	0.005 (A)	5.6	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U	0.003	0.005	**0.007 (NDW,RDW)**	0.001	**0.006 (NDW,RDW)**	0.004	0.002	0.002
Bromobenzene	mg/L	ID	ID	12	NA	0.05	390	0.018	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	mg/L	ID	ID	14	ID	0.08 (A,W)	37	0.08 (A,W)	4.8	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	ID	ID	140	ID	0.08 (A,W)	3,100 (S)	0.08 (A,W)	470	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane	mg/L	ID	ID	70	0.035	0.029	9	0.01	4	0.002 U	0.001 U	NA	NA	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U
Carbon Disulfide	mg/L	13	ID	1,200 (S)	ID	2.3	550	0.8	250	0.005 U	0.005 U	NA	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon Tetrachloride	mg/L	ID	96	4.6	0.045 (X)	0.005 (A)	2.4	0.005 (A)	0.37	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	160	ID	86	0.025	0.1 (A)	470 (S)	0.1 (A)	210	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	110	ID	440	1.1 (X)	1.7	5,700 (S)	0.43	5,700 (S)	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroform	mg/L	ID	ID	150	0.35	0.08 (A,W)	180	0.08 (A,W)	28	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane	mg/L	36	210	490	ID	1.1	45	0.26	8.6	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U
cis-1,2-Dichloroethene	mg/L	530	ID	200	0.62	0.07 (A)	210	0.07 (A)	93	0.003	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.005 U	NA	NA	0.001 UJ	0.001 U	0.001 UJ	0.001 UJ	0.002 J	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U
Dibromochloromethane	mg/L	ID	ID	18	ID	0.08 (A,W)	110	0.08 (A,W)	14	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Dibromomethane	mg/L	ID	ID	530	NA	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	mg/L	ID	ID	300 (S)	ID	4.8	300 (S)	1.7	220	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	R	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 U
Diethyl ether	mg/L	650	61,000 (S)	35,000	ID	10 (E)	61,000 (S)	3.7 (E)	61,000 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	mg/L	43	170 (S)	170 (S)	0.018	0.7 (E)	170 (S)	0.7 (E)	110	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.0002 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Hexachloroethane	mg/L	ID	ID	1.9	0.0067 (X)	0.021	50 (S)	0.0073	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	mg/L	29	ID	56 (S)	0.028	2.3	56 (S)	0.8	56 (S)	0.001 U	0.005 U	NA	NA	0.001 U	0.001 U	0.0003 J	0.0004 J	0.0008 J	0.0002 J	0.0003 J	0.0004 J	0.0003 J	0.0003 J
m&p-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.002 U	0.002 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Methyl acetate	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.01 U	0.005 U	NA	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U
Methyl tert-butyl ether	mg/L	ID	ID	610	7.1 (X)	0.69 (E)	47,000 (S)	0.24 (E)	47,000 (S)	0.005 U	0.005 U	NA	NA	0.0003 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methylcyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.02 U	0.001 U	NA	NA	0.02 U	0.02 U	0.02 U	0.0003 J	0.0007 J	0.02 U	0.02 UJ	0.0003 J	0.0002 J	0.0003 J
Methylene Chloride	mg/L	ID	ID	220	1.5 (X)	0.005 (A)	1,400	0.005 (A)	220	0.005 U	0.005 U	NA	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Naphthalene	mg/L	NA	31 (S)	31 (S)	0.011	1.5	31 (S)	0.52	31 (S)	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	mg/L	ID	ID	5.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	mg/L	ID	ID	15	ID	0.23	ID	0.08	ID	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-81-51 10/24/11	RFI-84-06R 04/02/03	RFI-84-06R 04/03/03	RFI-84-06R 02/25/05	RFI-84-06R 07/22/05	RFI-84-06R 12/08/05	RFI-84-06R 11/01/06	RFI-84-06R 04/24/07	RFI-84-06R 06/26/07	RFI-84-06R 10/26/07	RFI-84-06R 03/17/08	RFI-84-06R 06/17/08	RFI-84-06R 09/10/08	RFI-84-06R 12/03/08
p-Isopropyltoluene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	mg/L	ID	ID	4.4	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	mg/L	140	310 (S)	9.7	0.08 (X)	0.1 (A)	310 (S)	0.1 (A)	170	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
tert-Butylbenzene	mg/L	ID	ID	8.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	mg/L	ID	200 (S)	12	0.06 (X)	0.005 (A)	170	0.005 (A)	25	**0.007 (NDW,RDW)**	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrahydrofuran	mg/L	60	3,600	1,600	11 (X)	0.27	16,000	0.095	6,900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	mg/L	61	ID	530 (S)	0.27	1 (E)	530 (S)	1 (E)	530 (S)	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	230	ID	220	1.5 (X)	0.1 (A)	200	0.1 (A)	85	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	mg/L	ID	1,100 (S)	22	0.2 (X)	0.005 (A)	97	0.005 (A)	15	**0.067 (NDW,RDW)**	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane	mg/L	ID	1,100 (S)	1,100 (S)	NA	7.3	1,100 (S)	2.6	1,100 (S)	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl Chloride	mg/L	33	ID	1	0.013 (X)	0.002 (A)	13	0.002 (A)	1.1	0.001 U	0.001 U	NA	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
PCB																							
Total PCBs	mg/L	ID	ID	0.0033 (AA)	0.0002 (M	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	0.00011 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved																							
Total PCBs (Dissolved)	mg/L	ID	ID	0.0033 (AA)	0.0002 (M)	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	0.00011 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																							
Antimony	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	0.00059 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	0.0035 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	0.070	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	0.00040 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	0.000049 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	0.0028	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	0.0018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	0.013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	**0.061(GSI)**	**0.062(GSI)**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	0.00094	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	0.051 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	0.0092	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	0.0029 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	0.00040 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	0.000048 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	0.0040	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	0.020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved																							
Antimony (Dissolved)	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	0.00094 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	0.0030	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	0.058	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	0.00040 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	0.000090 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	0.0066	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	0.0010	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	0.013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	**0.071(GSI)**	NA	**0.058(GSI)**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	0.00017 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	0.050	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	0.00020 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	0.0078	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	0.0040	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	**0.00024 J(GSI)**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	0.00017 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	0.0016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	0.0095	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-84-06R 10/19/10	RFI-84-06R 10/21/11	RFI-84-06RD 07/21/05	RFI-84-06RD 12/08/05	RFI-84-06RD 11/02/06	RFI-84-06RD 04/24/07	RFI-84-06RD 06/27/07	RFI-84-06RD 10/26/07	RFI-84-06RD 03/17/08	RFI-84-06RD 06/17/08	RFI-84-06RD 09/10/08	RFI-84-06RD 12/03/08	RFI-84-06RD 10/19/10	RFI-84-06RD 10/21/11	RFI-84-09D 07/22/05
VOC																								
1,1,1,2-Tetrachloroethane	mg/L	ID	ID	30	ID	0.32	96	0.077	15	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA
1,1,1-Trichloroethane	mg/L	ID	1,300 (S)	1,300 (S)	0.089	0.2 (A)	1,300 (S)	0.2 (A)	660	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	ID	ID	4.7	0.078 (X)	0.035	77	0.0085	12	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/L	ID	170 (S)	170 (S)	0.032	170 (S)	170 (S)	170 (S)	170 (S)	NA	NA	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	NA	NA	0.03 U
1,1,2-Trichloroethane	mg/L	NA	ID	21	0.33 (X)	0.005 (A)	110	0.005 (A)	17	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
1,1-Dichloroethane	mg/L	380	ID	2,400	0.74	2.5	2,300	0.88	1,000	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
1,1-Dichloroethene	mg/L	97	140	11	0.13	0.007 (A)	1.3	0.007 (A)	0.2	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
1,2,3-Trichlorobenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA
1,2,3-Trichloropropane	mg/L	NA	ID	84	NA	0.12	18	0.042	8.3	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA
1,2,3-Trimethylbenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA
1,2,4-Trichlorobenzene	mg/L	NA	300 (S)	19	0.099 (X)	0.07 (A)	300 (S)	0.07 (A)	300 (S)	0.005 U	NA	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 UJ	0.002 U	0.002 U	0.002 U	0.005 U	NA	0.002 U
1,2,4-Trimethylbenzene	mg/L	56 (S)	ID	56 (S)	0.017	2.9 (E)	56 (S)	1 (E)	56 (S)	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA
1,2-Dibromo-3-chloropropane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.005 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	NA	0.001 U
1,2-Dibromoethane	mg/L	ID	ID	0.025	0.0057 (X)	0.00005 (A)	15	0.00005 (A)	2.4	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
1,2-Dichlorobenzene	mg/L	NA	160 (S)	160 (S)	0.013	0.6 (A)	160 (S)	0.6 (A)	160 (S)	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
1,2-Dichloroethane	mg/L	2,500	ID	19	0.36 (X)	0.005 (A)	59	0.005 (A)	9.6	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
1,2-Dichloropropane	mg/L	550	2,800 (S)	16	0.23 (X)	0.005 (A)	36	0.005 (A)	16	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
1,3,5-Trimethylbenzene	mg/L	ID	ID	61 (S)	0.045	2.9 (E)	61 (S)	1 (E)	61 (S)	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA
1,3-Dichlorobenzene	mg/L	ID	ID	2	0.028	0.019	41	0.0066	18	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
1,4-Dichlorobenzene	mg/L	NA	ID	6.4	0.017	0.075 (A)	74 (S)	0.075 (A)	16	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
2-Butanone	mg/L	ID	240,000 (S)	240,000 (S)	2.2	38	240,000 (S)	13	240,000 (S)	0.03 U	NA	0.03 U	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.03 U	NA	0.03 U
2-Hexanone	mg/L	NA	ID	5,200	ID	2.9	8,700	1	4,200	0.05 U	NA	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U	NA	0.05 U
2-Methylnaphthalene	mg/L	ID	ID	25 (S)	0.019	0.75	25 (S)	0.26	25 (S)	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA
4-Methyl-2-pentanone	mg/L	ID	20,000 (S)	13,000	ID	5.2	20,000 (S)	1.8	20,000 (S)	0.05 U	NA	0.001 U	0.001 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	NA	0.001 U
Acetone	mg/L	15,000	1,000,000 (D)	31,000	1.7	2.1	1,000,000 (D,S)	0.73	1,000,000 (D,S)	0.05 U	NA	0.03 U	0.03 U	0.02 U	0.02 UJ	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.05 U	NA	0.03 U
Acrylonitrile	mg/L	6,400	ID	14	0.002 (M)	0.011	190	0.0026	34	0.002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA
Benzene	mg/L	68	67	11	0.2 (X)	0.005 (A)	35	0.005 (A)	5.6	0.002	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
Bromobenzene	mg/L	ID	ID	12	NA	0.05	390	0.018	180	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA
Bromochloromethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA
Bromodichloromethane	mg/L	ID	ID	14	ID	0.08 (A,W)	37	0.08 (A,W)	4.8	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
Bromoform	mg/L	ID	ID	140	ID	0.08 (A,W)	3,100 (S)	0.08 (A,W)	470	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
Bromomethane	mg/L	ID	ID	70	0.035	0.029	9	0.01	4	0.005 U	NA	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.005 U	NA	0.002 U
Carbon Disulfide	mg/L	13	ID	1,200 (S)	ID	2.3	550	0.8	250	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 U
Carbon Tetrachloride	mg/L	ID	96	4.6	0.045 (X)	0.005 (A)	2.4	0.005 (A)	0.37	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
Chlorobenzene	mg/L	160	ID	86	0.025	0.1 (A)	470 (S)	0.1 (A)	210	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
Chloroethane	mg/L	110	ID	440	1.1 (X)	1.7	5,700 (S)	0.43	5,700 (S)	0.005 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	NA	0.001 U
Chloroform	mg/L	ID	ID	150	0.35	0.08 (A,W)	180	0.08 (A,W)	28	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
Chloromethane	mg/L	36	210	490	ID	1.1	45	0.26	8.6	0.005 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.005 U	NA	0.001 U
cis-1,2-Dichloroethene	mg/L	530	ID	200	0.62	0.07 (A)	210	0.07 (A)	93	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.004
cis-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
Cyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.001 UJ	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	NA	NA	0.001 UJ
Dibromochloromethane	mg/L	ID	ID	18	ID	0.08 (A,W)	110	0.08 (A,W)	14	0.005 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	NA	0.001 U
Dibromomethane	mg/L	ID	ID	530	NA	0.23	ID	0.08	ID	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA
Dichlorodifluoromethane	mg/L	ID	ID	300 (S)	ID	4.8	300 (S)	1.7	220	0.005 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.005 U	NA	0.001 U
Diethyl ether	mg/L	650	61,000 (S)	35,000	ID	10 (E)	61,000 (S)	3.7 (E)	61,000 (S)	0.01 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA
Ethylbenzene	mg/L	43	170 (S)	170 (S)	0.018	0.7 (E)	170 (S)	0.7 (E)	110	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
Hexachloroethane	mg/L	ID	ID	1.9	0.0067 (X)	0.021	50 (S)	0.0073	27	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA
Iodomethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA
Isopropylbenzene	mg/L	29	ID	56 (S)	0.028	2.3	56 (S)	0.8	56 (S)	0.005 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	NA	0.001 U
m&p-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.002 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.0001 J	0.0001 J	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U	NA	0.001 U
Methyl acetate	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	NA	0.01 U
Methyl tert-butyl ether	mg/L	ID	ID	610	7.1 (X)	0.69 (E)	47,000 (S)	0.24 (E)	47,000 (S)	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.002 J
Methylcyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 U	0.02 U	0.02 U	NA	NA	0.02 U
Methylene Chloride	mg/L	ID	ID	220	1.5 (X)	0.005 (A)	1,400	0.005 (A)	220	0.005 U	NA	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	NA	0.005 U
Naphthalene	mg/L	NA	31 (S)	31 (S)	0.011	1.5	31 (S)	0.52	31 (S)	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA
n-Butylbenzene	mg/L	ID	ID	5.9	ID	0.23	ID	0.08	ID	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA
n-Propylbenzene	mg/L	ID	ID	15	ID	0.23	ID	0.08	ID	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA
o-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-84-06R 10/19/10	RFI-84-06R 10/21/11	RFI-84-06RD 07/21/05	RFI-84-06RD 12/08/05	RFI-84-06RD 11/02/06	RFI-84-06RD 04/24/07	RFI-84-06RD 06/27/07	RFI-84-06RD 10/26/07	RFI-84-06RD 03/17/08	RFI-84-06RD 06/17/08	RFI-84-06RD 09/10/08	RFI-84-06RD 12/03/08	RFI-84-06RD 10/19/10	RFI-84-06RD 10/21/11	RFI-84-09D 07/22/05
p-Isopropyltoluene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA
sec-Butylbenzene	mg/L	ID	ID	4.4	ID	0.23	ID	0.08	ID	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA
Styrene	mg/L	140	310 (S)	9.7	0.08 (X)	0.1 (A)	310 (S)	0.1 (A)	170	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
tert-Butylbenzene	mg/L	ID	ID	8.9	ID	0.23	ID	0.08	ID	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA
Tetrachloroethene	mg/L	ID	200 (S)	12	0.06 (X)	0.005 (A)	170	0.005 (A)	25	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
Tetrahydrofuran	mg/L	60	3,600	1,600	11 (X)	0.27	16,000	0.095	6,900	0.09 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.09 U	NA	NA
Toluene	mg/L	61	ID	530 (S)	0.27	1 (E)	530 (S)	1 (E)	530 (S)	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
trans-1,2-Dichloroethene	mg/L	230	ID	220	1.5 (X)	0.1 (A)	200	0.1 (A)	85	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
trans-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA
Trichloroethene	mg/L	ID	1,100 (S)	22	0.2 (X)	0.005 (A)	97	0.005 (A)	15	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
Trichlorofluoromethane	mg/L	ID	1,100 (S)	1,100 (S)	NA	7.3	1,100 (S)	2.6	1,100 (S)	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
Vinyl Chloride	mg/L	33	ID	1	0.013 (X)	0.002 (A)	13	0.002 (A)	1.1	0.001 U	NA	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	NA	0.001 U
PCB																								
Total PCBs	mg/L	ID	ID	0.0033 (AA)	0.0002 (M	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved																								
Total PCBs (Dissolved)	mg/L	ID	ID	0.0033 (AA)	0.0002 (M)	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																								
Antimony	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	**0.088(GSI) [0.086(GSI)]**	**0.068(GSI)**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA
Lead	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	0.005 U [0.005 U]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	0.0005 U [0.0005 U]	0.0005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved																								
Antimony (Dissolved)	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-84-09D 12/08/05	RFI-84-09D 11/01/06	RFI-84-09D 04/24/07	RFI-84-09D 06/28/07	RFI-84-09D 10/26/07	RFI-84-09D 03/18/08	RFI-84-09D 06/17/08	RFI-84-09D 09/11/08	RFI-84-09D 12/03/08	RFI-84-09D 10/19/10	RFI-84-09D 10/21/11
VOC																				
1,1,1,2-Tetrachloroethane	mg/L	ID	ID	30	ID	0.32	96	0.077	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
1,1,1-Trichloroethane	mg/L	ID	1,300 (S)	1,300 (S)	0.089	0.2 (A)	1,300 (S)	0.2 (A)	660	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	ID	ID	4.7	0.078 (X)	0.035	77	0.0085	12	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/L	ID	170 (S)	170 (S)	0.032	170 (S)	170 (S)	170 (S)	170 (S)	0.03 U	0.03 U	0.03 U [0.03 U]	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	NA	0.03 U
1,1,2-Trichloroethane	mg/L	NA	ID	21	0.33 (X)	0.005 (A)	110	0.005 (A)	17	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	380	ID	2,400	0.74	2.5	2,300	0.88	1,000	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	97	140	11	0.13	0.007 (A)	1.3	0.007 (A)	0.2	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,3-Trichlorobenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA
1,2,3-Trichloropropane	mg/L	NA	ID	84	NA	0.12	18	0.042	8.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
1,2,3-Trimethylbenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
1,2,4-Trichlorobenzene	mg/L	NA	300 (S)	19	0.099 (X)	0.07 (A)	300 (S)	0.07 (A)	300 (S)	0.002 U	0.002 U	0.002 U [0.002 U]	0.002 U	0.002 U	0.002 UJ	0.002 U	0.002 U	0.002 U	0.005 U	0.002 U
1,2,4-Trimethylbenzene	mg/L	56 (S)	ID	56 (S)	0.017	2.9 (E)	56 (S)	1 (E)	56 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
1,2-Dibromo-3-chloropropane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U
1,2-Dibromoethane	mg/L	ID	ID	0.025	0.0057 (X)	0.00005 (A)	15	0.00005 (A)	2.4	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	NA	160 (S)	160 (S)	0.013	0.6 (A)	160 (S)	0.6 (A)	160 (S)	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	2,500	ID	19	0.36 (X)	0.005 (A)	59	0.005 (A)	9.6	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	550	2,800 (S)	16	0.23 (X)	0.005 (A)	36	0.005 (A)	16	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	ID	ID	61 (S)	0.045	2.9 (E)	61 (S)	1 (E)	61 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
1,3-Dichlorobenzene	mg/L	ID	ID	2	0.028	0.019	41	0.0066	18	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	NA	ID	6.4	0.017	0.075 (A)	74 (S)	0.075 (A)	16	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone	mg/L	ID	240,000 (S)	240,000 (S)	2.2	38	240,000 (S)	13	240,000 (S)	0.03 U	0.02 U	0.02 U [0.02 U]	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.03 U	0.02 U
2-Hexanone	mg/L	NA	ID	5,200	ID	2.9	8,700	1	4,200	0.05 U	0.05 U	0.05 U [0.05 U]	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U
2-Methylnaphthalene	mg/L	ID	ID	25 (S)	0.019	0.75	25 (S)	0.26	25 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA
4-Methyl-2-pentanone	mg/L	ID	20,000 (S)	13,000	ID	5.2	20,000 (S)	1.8	20,000 (S)	0.001 U	0.01 U	0.01 U [0.01 U]	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.01 U
Acetone	mg/L	15,000	1,000,000 (D)	31,000	1.7	2.1	1,000,000 (D,S)	0.73	1,000,000 (D,S)	0.03 U	0.02 U	0.009 J [0.01 J]	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.05 U	0.02 U
Acrylonitrile	mg/L	6,400	ID	14	0.002 (M)	0.011	190	0.0026	34	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA
Benzene	mg/L	68	67	11	0.2 (X)	0.005 (A)	35	0.005 (A)	5.6	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromobenzene	mg/L	ID	ID	12	NA	0.05	390	0.018	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
Bromochloromethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
Bromodichloromethane	mg/L	ID	ID	14	ID	0.08 (A,W)	37	0.08 (A,W)	4.8	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	ID	ID	140	ID	0.08 (A,W)	3,100 (S)	0.08 (A,W)	470	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane	mg/L	ID	ID	70	0.035	0.029	9	0.01	4	0.002 U	0.002 U	0.002 U [0.002 U]	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.005 U	0.002 U
Carbon Disulfide	mg/L	13	ID	1,200 (S)	ID	2.3	550	0.8	250	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon Tetrachloride	mg/L	ID	96	4.6	0.045 (X)	0.005 (A)	2.4	0.005 (A)	0.37	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	160	ID	86	0.025	0.1 (A)	470 (S)	0.1 (A)	210	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	110	ID	440	1.1 (X)	1.7	5,700 (S)	0.43	5,700 (S)	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U
Chloroform	mg/L	ID	ID	150	0.35	0.08 (A,W)	180	0.08 (A,W)	28	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane	mg/L	36	210	490	ID	1.1	45	0.26	8.6	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.005 U	0.001 U
cis-1,2-Dichloroethene	mg/L	530	ID	200	0.62	0.07 (A)	210	0.07 (A)	93	0.004	0.004	0.003 [0.003]	0.004	0.003	0.003	0.003	0.003	0.004	0.003	0.004
cis-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 UJ	0.001 UJ [0.001 UJ]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	NA	0.001 U
Dibromochloromethane	mg/L	ID	ID	18	ID	0.08 (A,W)	110	0.08 (A,W)	14	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U
Dibromomethane	mg/L	ID	ID	530	NA	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA
Dichlorodifluoromethane	mg/L	ID	ID	300 (S)	ID	4.8	300 (S)	1.7	220	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.005 U	0.001 U
Diethyl ether	mg/L	650	61,000 (S)	35,000	ID	10 (E)	61,000 (S)	3.7 (E)	61,000 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA
Ethylbenzene	mg/L	43	170 (S)	170 (S)	0.018	0.7 (E)	170 (S)	0.7 (E)	110	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Hexachloroethane	mg/L	ID	ID	1.9	0.0067 (X)	0.021	50 (S)	0.0073	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA
Iodomethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
Isopropylbenzene	mg/L	29	ID	56 (S)	0.028	2.3	56 (S)	0.8	56 (S)	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U
m&p-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.0001 J	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U
Methyl acetate	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.01 U	0.01 U	0.01 U [0.01 U]	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U
Methyl tert-butyl ether	mg/L	ID	ID	610	7.1 (X)	0.69 (E)	47,000 (S)	0.24 (E)	47,000 (S)	0.003 J	0.003 J	0.002 J [0.002 J]	0.002 J	0.001 J	0.001 J	0.001 J	0.001 J	0.001 J	0.005 U	0.005 U
Methylcyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.02 U	0.02 U	0.02 U [0.02 U]	0.02 U	0.02 U	0.02 UJ	0.02 U	0.02 U	0.02 U	NA	0.02 U
Methylene Chloride	mg/L	ID	ID	220	1.5 (X)	0.005 (A)	1,400	0.005 (A)	220	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Naphthalene	mg/L	NA	31 (S)	31 (S)	0.011	1.5	31 (S)	0.52	31 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U
n-Butylbenzene	mg/L	ID	ID	5.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
n-Propylbenzene	mg/L	ID	ID	15	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	0.001 U
o-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

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RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-84-09D 12/08/05	RFI-84-09D 11/01/06	RFI-84-09D 04/24/07	RFI-84-09D 06/28/07	RFI-84-09D 10/26/07	RFI-84-09D 03/18/08	RFI-84-09D 06/17/08	RFI-84-09D 09/11/08	RFI-84-09D 12/03/08	RFI-84-09D 10/19/10	RFI-84-09D 10/21/11
p-Isopropyltoluene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA
sec-Butylbenzene	mg/L	ID	ID	4.4	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
Styrene	mg/L	140	310 (S)	9.7	0.08 (X)	0.1 (A)	310 (S)	0.1 (A)	170	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
tert-Butylbenzene	mg/L	ID	ID	8.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
Tetrachloroethene	mg/L	ID	200 (S)	12	0.06 (X)	0.005 (A)	170	0.005 (A)	25	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrahydrofuran	mg/L	60	3,600	1,600	11 (X)	0.27	16,000	0.095	6,900	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.09 U	NA
Toluene	mg/L	61	ID	530 (S)	0.27	1 (E)	530 (S)	1 (E)	530 (S)	0.001 U	0.001 U	0.001 U [0.001 U]	0.0002 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	230	ID	220	1.5 (X)	0.1 (A)	200	0.1 (A)	85	0.001 U	0.001 U	0.0002 J [0.0002 J]	0.0002 J	0.0001 J	0.0001 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA
Trichloroethene	mg/L	ID	1,100 (S)	22	0.2 (X)	0.005 (A)	97	0.005 (A)	15	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane	mg/L	ID	1,100 (S)	1,100 (S)	NA	7.3	1,100 (S)	2.6	1,100 (S)	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl Chloride	mg/L	33	ID	1	0.013 (X)	0.002 (A)	13	0.002 (A)	1.1	**0.003 (NDW,RDW)**	**0.003 (NDW,RDW)**	**0.003 (NDW,RDW) [0.003 (NDW,RDW)]**	**0.003 (NDW,RDW)**	**0.003 (NDW,RDW)**	**0.003 (NDW,RDW)**	**0.003 (NDW,RDW)**	0.002	**0.003 J (NDW,RDW)**	0.002	0.001 U
PCB																				
Total PCBs	mg/L	ID	ID	0.0033 (AA)	0.0002 (M	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved																				
Total PCBs (Dissolved)	mg/L	ID	ID	0.0033 (AA)	0.0002 (M)	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																				
Antimony	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved																				
Antimony (Dissolved)	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-84-09S 07/22/05	RFI-84-09S 12/08/05	RFI-84-09S 11/01/06	RFI-84-09S 04/24/07	RFI-84-09S 06/28/07	RFI-84-09S 10/26/07	RFI-84-09S 03/17/08	RFI-84-09S 06/17/08	RFI-84-09S 09/11/08	RFI-84-09S 12/03/08	RFI-84-09S 10/19/10	RFI-84-09S 10/21/11	RFI-84-11S 07/28/05	RFI-84-11S 11/01/06	RFI-84-11S 03/17/08	RFI-84-11S 09/11/08	RFI-84-11S 10/19/10
VOC																										
1,1,1,2-Tetrachloroethane	mg/L	ID	ID	30	ID	0.32	96	0.077	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	0.001 U
1,1,1-Trichloroethane	mg/L	ID	1,300 (S)	1,300 (S)	0.089	0.2 (A)	1,300 (S)	0.2 (A)	660	0.001 U	0.001 U	0.002	0.001	0.0005 J	0.0001 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0001 J	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	ID	ID	4.7	0.078 (X)	0.035	77	0.0085	12	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/L	ID	170 (S)	170 (S)	0.032	170 (S)	170 (S)	170 (S)	170 (S)	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	NA	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	NA
1,1,2-Trichloroethane	mg/L	NA	ID	21	0.33 (X)	0.005 (A)	110	0.005 (A)	17	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	380	ID	2,400	0.74	2.5	2,300	0.88	1,000	0.001 U	0.001 U	0.001 U	0.0005 J	0.0004 J	0.0004 J	0.001 U	0.001 U	0.0003 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0003 J	0.0003 J	0.001 U
1,1-Dichloroethene	mg/L	97	140	11	0.13	0.007 (A)	1.3	0.007 (A)	0.2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,3-Trichlorobenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	0.005 U
1,2,3-Trichloropropane	mg/L	NA	ID	84	NA	0.12	18	0.042	8.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	0.001 U
1,2,3-Trimethylbenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	0.001 U
1,2,4-Trichlorobenzene	mg/L	NA	300 (S)	19	0.099 (X)	0.07 (A)	300 (S)	0.07 (A)	300 (S)	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 UJ	0.002 U	0.002 U	0.002 U	0.005 U	0.002 U	0.002 U	0.002 U	0.002 UJ	0.002 U	0.005 U
1,2,4-Trimethylbenzene	mg/L	56 (S)	ID	56 (S)	0.017	2.9 (E)	56 (S)	1 (E)	56 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	0.001 U
1,2-Dibromo-3-chloropropane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
1,2-Dibromoethane	mg/L	ID	ID	0.025	0.0057 (X)	0.00005 (A)	15	0.00005 (A)	2.4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	NA	160 (S)	160 (S)	0.013	0.6 (A)	160 (S)	0.6 (A)	160 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	2,500	ID	19	0.36 (X)	0.005 (A)	59	0.005 (A)	9.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	550	2,800 (S)	16	0.23 (X)	0.005 (A)	36	0.005 (A)	16	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	ID	ID	61 (S)	0.045	2.9 (E)	61 (S)	1 (E)	61 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	0.001 U
1,3-Dichlorobenzene	mg/L	ID	ID	2	0.028	0.019	41	0.0066	18	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	NA	ID	6.4	0.017	0.075 (A)	74 (S)	0.075 (A)	16	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone	mg/L	ID	240,000 (S)	240,000 (S)	2.2	38	240,000 (S)	13	240,000 (S)	0.03 U	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.03 U	0.02 U	0.03 U	0.02 U	0.02 U	0.02 U	0.03 U
2-Hexanone	mg/L	NA	ID	5,200	ID	2.9	8,700	1	4,200	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 U
2-Methylnaphthalene	mg/L	ID	ID	25 (S)	0.019	0.75	25 (S)	0.26	25 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	0.005 U
4-Methyl-2-pentanone	mg/L	ID	20,000 (S)	13,000	ID	5.2	20,000 (S)	1.8	20,000 (S)	0.001 U	0.001 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.05 U	0.01 U	0.001 U	0.01 U	0.01 U	0.01 U	0.05 U
Acetone	mg/L	15,000	1,000,000 (D)	31,000	1.7	2.1	1,000,000 (D,S)	0.73	1,000,000 (D,S)	0.03 U	0.03 U	0.02 U	0.02 UJ	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.05 U	0.02 U	0.03 UJ	0.02 U	0.02 U	0.02 U	0.05 U
Acrylonitrile	mg/L	6,400	ID	14	0.002 (M)	0.011	190	0.0026	34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	0.002 U
Benzene	mg/L	68	67	11	0.2 (X)	0.005 (A)	35	0.005 (A)	5.6	0.001 U	0.001 U	0.0008 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromobenzene	mg/L	ID	ID	12	NA	0.05	390	0.018	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	0.001 U
Bromochloromethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	0.001 U
Bromodichloromethane	mg/L	ID	ID	14	ID	0.08 (A,W)	37	0.08 (A,W)	4.8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	ID	ID	140	ID	0.08 (A,W)	3,100 (S)	0.08 (A,W)	470	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane	mg/L	ID	ID	70	0.035	0.029	9	0.01	4	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.005 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.005 U
Carbon Disulfide	mg/L	13	ID	1,200 (S)	ID	2.3	550	0.8	250	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon Tetrachloride	mg/L	ID	96	4.6	0.045 (X)	0.005 (A)	2.4	0.005 (A)	0.37	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	160	ID	86	0.025	0.1 (A)	470 (S)	0.1 (A)	210	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	110	ID	440	1.1 (X)	1.7	5,700 (S)	0.43	5,700 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
Chloroform	mg/L	ID	ID	150	0.35	0.08 (A,W)	180	0.08 (A,W)	28	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane	mg/L	36	210	490	ID	1.1	45	0.26	8.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0003 J	0.001 UJ	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
cis-1,2-Dichloroethene	mg/L	530	ID	200	0.62	0.07 (A)	210	0.07 (A)	93	0.001 U	0.001 U	0.0003 J	0.0003 J	0.0005 J	0.0008 J	0.0004 J	0.0004 J	0.0006 J	0.0008 J	0.001 U	0.001 U	0.001 U	0.0009 J	0.0007 J	0.0008 J	0.003
cis-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 UJ	0.001 U	0.001 UJ	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	NA	0.001 U	0.001 UJ	0.001 UJ	0.001 U	0.001 UJ	NA
Dibromochloromethane	mg/L	ID	ID	18	ID	0.08 (A,W)	110	0.08 (A,W)	14	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
Dibromomethane	mg/L	ID	ID	530	NA	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	0.005 U
Dichlorodifluoromethane	mg/L	ID	ID	300 (S)	ID	4.8	300 (S)	1.7	220	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.005 U
Diethyl ether	mg/L	650	61,000 (S)	35,000	ID	10 (E)	61,000 (S)	3.7 (E)	61,000 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	0.01 U
Ethylbenzene	mg/L	43	170 (S)	170 (S)	0.018	0.7 (E)	170 (S)	0.7 (E)	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Hexachloroethane	mg/L	ID	ID	1.9	0.0067 (X)	0.021	50 (S)	0.0073	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	0.005 U
Iodomethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	0.001 U
Isopropylbenzene	mg/L	29	ID	56 (S)	0.028	2.3	56 (S)	0.8	56 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0002 J	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U
m&p-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U
Methyl acetate	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.01 UJ	0.01 U	0.01 U	0.01 U	NA
Methyl tert-butyl ether	mg/L	ID	ID	610	7.1 (X)	0.69 (E)	47,000 (S)	0.24 (E)	47,000 (S)	0.005 U	0.005 U	0.005 U	0.005 U	0.0005 J	0.0004 J	0.0003 J	0.0002 J	0.0005 J	0.0006 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methylcyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 U	0.02 U	0.02 U	NA	0.02 U	0.02 U	0.02 U	0.02 UJ	0.02 U	NA
Methylene Chloride	mg/L	ID	ID	220	1.5 (X)	0.005 (A)	1,400	0.005 (A)	220	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Naphthalene	mg/L	NA	31 (S)	31 (S)	0.011	1.5	31 (S)	0.52	31 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	0.005 U
n-Butylbenzene	mg/L	ID	ID	5.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	0.001 U
n-Propylbenzene	mg/L	ID	ID	15	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	0.001 U	NA	NA	NA	NA	0.001 U
o-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-84-09S 07/22/05	RFI-84-09S 12/08/05	RFI-84-09S 11/01/06	RFI-84-09S 04/24/07	RFI-84-09S 06/28/07	RFI-84-09S 10/26/07	RFI-84-09S 03/17/08	RFI-84-09S 06/17/08	RFI-84-09S 09/11/08	RFI-84-09S 12/03/08	RFI-84-09S 10/19/10	RFI-84-09S 10/21/11	RFI-84-11S 07/28/05	RFI-84-11S 11/01/06	RFI-84-11S 03/17/08	RFI-84-11S 09/11/08	RFI-84-11S 10/19/10
p-Isopropyltoluene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	0.005 U
sec-Butylbenzene	mg/L	ID	ID	4.4	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	0.001 U
Styrene	mg/L	140	310 (S)	9.7	0.08 (X)	0.1 (A)	310 (S)	0.1 (A)	170	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
tert-Butylbenzene	mg/L	ID	ID	8.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	0.001 U
Tetrachloroethene	mg/L	ID	200 (S)	12	0.06 (X)	0.005 (A)	170	0.005 (A)	25	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0005 J	0.001 U	0.0006 J	0.0004 J	0.001 U
Tetrahydrofuran	mg/L	60	3,600	1,600	11 (X)	0.27	16,000	0.095	6,900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.09 U	NA	NA	NA	NA	NA	0.09 U
Toluene	mg/L	61	ID	530 (S)	0.27	1 (E)	530 (S)	1 (E)	530 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	230	ID	220	1.5 (X)	0.1 (A)	200	0.1 (A)	85	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0001 J	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	0.001 U
Trichloroethene	mg/L	ID	1,100 (S)	22	0.2 (X)	0.005 (A)	97	0.005 (A)	15	0.001 U	0.001 U	0.0008 J	0.0005 J	0.0004 J	0.0002 J	0.001 U	0.0001 J	0.0002 J	0.001 U	0.001 U	0.001 U	0.0008 J	0.002	0.001	0.002	0.002
Trichlorofluoromethane	mg/L	ID	1,100 (S)	1,100 (S)	NA	7.3	1,100 (S)	2.6	1,100 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl Chloride	mg/L	33	ID	1	0.013 (X)	0.002 (A)	13	0.002 (A)	1.1	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0004 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
PCB																										
Total PCBs	mg/L	ID	ID	0.0033 (AA)	0.0002 (M	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved																										
Total PCBs (Dissolved)	mg/L	ID	ID	0.0033 (AA)	0.0002 (M)	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																										
Antimony	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved																										
Antimony (Dissolved)	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-84-11S 10/21/11	RFI-84-12 12/03/08	RFI-84-12 09/23/09	RFI-84-12 10/19/10	RFI-84-12 10/21/11	RFI-86-01R 06/25/02	RFI-86-01R 04/02/03	RFI-86-01R 10/07/04	RFI-86-01R 10/28/10	RFI-86-01R 10/25/11	RFI-86-16R 09/16/03	RFI-86-16R 10/06/04	RFI-86-16R 06/27/07	RFI-86-16R 10/29/07	RFI-86-16R 09/15/08	RFI-86-16R 10/18/10	RFI-86-16R 10/24/11
VOC																										
1,1,1,2-Tetrachloroethane	mg/L	ID	ID	30	ID	0.32	96	0.077	15	NA	NA	NA	0.001 U	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	0.001 U	NA
1,1,1-Trichloroethane	mg/L	ID	1,300 (S)	1,300 (S)	0.089	0.2 (A)	1,300 (S)	0.2 (A)	660	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	ID	ID	4.7	0.078 (X)	0.035	77	0.0085	12	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/L	ID	170 (S)	170 (S)	0.032	170 (S)	170 (S)	170 (S)	170 (S)	0.03 U	0.03 U	0.03 U	NA	0.03 U	0.001 U	0.001 U	0.03 U	NA	0.03 U	0.001 U	0.03 U	0.03 U	0.03 U	0.03 U	NA	0.03 U
1,1,2-Trichloroethane	mg/L	NA	ID	21	0.33 (X)	0.005 (A)	110	0.005 (A)	17	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethane	mg/L	380	ID	2,400	0.74	2.5	2,300	0.88	1,000	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,1-Dichloroethene	mg/L	97	140	11	0.13	0.007 (A)	1.3	0.007 (A)	0.2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2,3-Trichlorobenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.005 U	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	0.005 U	NA
1,2,3-Trichloropropane	mg/L	NA	ID	84	NA	0.12	18	0.042	8.3	NA	NA	NA	0.001 U	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	0.001 U	NA
1,2,3-Trimethylbenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.001 U	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	0.001 U	NA
1,2,4-Trichlorobenzene	mg/L	NA	300 (S)	19	0.099 (X)	0.07 (A)	300 (S)	0.07 (A)	300 (S)	0.002 U	0.002 U	0.002 U	0.005 U	0.002 U	0.005 U	0.005 U	0.002 U	0.005 U	0.002 U	0.005 U	0.002 U	0.002 U	0.002 U	0.002 U	0.005 U	0.002 U
1,2,4-Trimethylbenzene	mg/L	56 (S)	ID	56 (S)	0.017	2.9 (E)	56 (S)	1 (E)	56 (S)	NA	NA	NA	0.001 U	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	0.001 U	NA
1,2-Dibromo-3-chloropropane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U
1,2-Dibromoethane	mg/L	ID	ID	0.025	0.0057 (X)	0.00005 (A)	15	0.00005 (A)	2.4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichlorobenzene	mg/L	NA	160 (S)	160 (S)	0.013	0.6 (A)	160 (S)	0.6 (A)	160 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloroethane	mg/L	2,500	ID	19	0.36 (X)	0.005 (A)	59	0.005 (A)	9.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,2-Dichloropropane	mg/L	550	2,800 (S)	16	0.23 (X)	0.005 (A)	36	0.005 (A)	16	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,3,5-Trimethylbenzene	mg/L	ID	ID	61 (S)	0.045	2.9 (E)	61 (S)	1 (E)	61 (S)	NA	NA	NA	0.001 U	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	0.001 U	NA
1,3-Dichlorobenzene	mg/L	ID	ID	2	0.028	0.019	41	0.0066	18	0.001 U	0.001 U	0.0002	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
1,4-Dichlorobenzene	mg/L	NA	ID	6.4	0.017	0.075 (A)	74 (S)	0.075 (A)	16	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
2-Butanone	mg/L	ID	240,000 (S)	240,000 (S)	2.2	38	240,000 (S)	13	240,000 (S)	0.02 U	0.02 UJ	0.02 U	0.03 U	0.02 U	0.025 UJ	0.025 U	0.03 U	0.03 U	0.02 U	0.025 U	0.03 U	0.02 U	0.02 U	0.02 U	0.03 UJ	0.02 U
2-Hexanone	mg/L	NA	ID	5,200	ID	2.9	8,700	1	4,200	0.05 U	0.05 UJ	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ	0.05 U
2-Methylnaphthalene	mg/L	ID	ID	25 (S)	0.019	0.75	25 (S)	0.26	25 (S)	NA	NA	NA	0.005 U	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	0.005 U	NA
4-Methyl-2-pentanone	mg/L	ID	20,000 (S)	13,000	ID	5.2	20,000 (S)	1.8	20,000 (S)	0.01 U	0.01 U	0.01 U	0.05 U	0.01 U	0.05 U	0.05 U	0.001 U	0.05 U	0.01 U	0.05 U	0.001 U	0.01 U	0.01 U	0.01 U	0.05 U	0.01 U
Acetone	mg/L	15,000	1,000,000 (D)	31,000	1.7	2.1	1,000,000 (D,S)	0.73	1,000,000 (D,S)	0.02 U	0.02 UJ	0.02 U	0.05 U	0.02 U	0.025 U	0.025 U	0.03 UJ	0.05 U	0.02 U	0.025 U	0.03 U	0.02 U	0.02 U	0.02 U	0.05 UJ	0.02 U
Acrylonitrile	mg/L	6,400	ID	14	0.002 (M)	0.011	190	0.0026	34	NA	NA	NA	0.002 U	NA	NA	NA	NA	0.002 U	NA	NA	NA	NA	NA	NA	0.002 U	NA
Benzene	mg/L	68	67	11	0.2 (X)	0.005 (A)	35	0.005 (A)	5.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromobenzene	mg/L	ID	ID	12	NA	0.05	390	0.018	180	NA	NA	NA	0.001 U	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	0.001 U	NA
Bromochloromethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.001 U	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	0.001 U	NA
Bromodichloromethane	mg/L	ID	ID	14	ID	0.08 (A,W)	37	0.08 (A,W)	4.8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromoform	mg/L	ID	ID	140	ID	0.08 (A,W)	3,100 (S)	0.08 (A,W)	470	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Bromomethane	mg/L	ID	ID	70	0.035	0.029	9	0.01	4	0.002 U	0.002 U	0.002 U	0.005 U	0.002 U	0.001 U	0.001 U	0.002 UJ	0.005 U	0.002 U	0.001 U	0.002 UJ	0.002 U	0.002 U	0.002 U	0.005 U	0.002 U
Carbon Disulfide	mg/L	13	ID	1,200 (S)	ID	2.3	550	0.8	250	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Carbon Tetrachloride	mg/L	ID	96	4.6	0.045 (X)	0.005 (A)	2.4	0.005 (A)	0.37	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chlorobenzene	mg/L	160	ID	86	0.025	0.1 (A)	470 (S)	0.1 (A)	210	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloroethane	mg/L	110	ID	440	1.1 (X)	1.7	5,700 (S)	0.43	5,700 (S)	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.005 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U
Chloroform	mg/L	ID	ID	150	0.35	0.08 (A,W)	180	0.08 (A,W)	28	0.001 U	0.0002 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Chloromethane	mg/L	36	210	490	ID	1.1	45	0.26	8.6	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U
cis-1,2-Dichloroethene	mg/L	530	ID	200	0.62	0.07 (A)	210	0.07 (A)	93	0.002	0.0003 J	0.002	0.002	0.001	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
cis-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Cyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	NA	0.001 U	0.005 U	0.005 U	0.001 U	NA	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 UJ	NA	0.001 U
Dibromochloromethane	mg/L	ID	ID	18	ID	0.08 (A,W)	110	0.08 (A,W)	14	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U
Dibromomethane	mg/L	ID	ID	530	NA	0.23	ID	0.08	ID	NA	NA	NA	0.005 U	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	0.005 U	NA
Dichlorodifluoromethane	mg/L	ID	ID	300 (S)	ID	4.8	300 (S)	1.7	220	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.005 U	0.001 U
Diethyl ether	mg/L	650	61,000 (S)	35,000	ID	10 (E)	61,000 (S)	3.7 (E)	61,000 (S)	NA	NA	NA	0.01 U	NA	NA	NA	NA	0.01 U	NA	NA	NA	NA	NA	NA	0.01 U	NA
Ethylbenzene	mg/L	43	170 (S)	170 (S)	0.018	0.7 (E)	170 (S)	0.7 (E)	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Hexachloroethane	mg/L	ID	ID	1.9	0.0067 (X)	0.021	50 (S)	0.0073	27	NA	NA	NA	0.005 U	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	0.005 U	NA
Iodomethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.001 U	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	0.001 U	NA
Isopropylbenzene	mg/L	29	ID	56 (S)	0.028	2.3	56 (S)	0.8	56 (S)	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U	0.005 U	0.005 U	0.001 U	0.005 U	0.001 U	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.005 U	0.001 U
m&p-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.002 U	0.001 U	0.001 U	0.002 U	0.002 U	0.002 U	0.002 U	0.001 U	0.002 U	0.002 U	0.002 U	0.001 U	0.001 U	0.001 U	0.001 U	0.002 U	0.002 U
Methyl acetate	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.01 U	0.01 U	0.01 U	NA	0.01 U	0.005 U	0.005 U	0.01 U	NA	0.01 U	0.005 U	0.01 UJ	0.01 U	0.01 U	0.01 U	NA	0.01 U
Methyl tert-butyl ether	mg/L	ID	ID	610	7.1 (X)	0.69 (E)	47,000 (S)	0.24 (E)	47,000 (S)	0.005 U	0.001 J	0.0009	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Methylcyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.02 U	0.02 U	0.02 U	NA	0.02 U	0.001 U	0.001 U	0.02 U	NA	0.02 U	0.001 U	0.02 U	0.02 U	0.02 U	0.02 U	NA	0.02 U
Methylene Chloride	mg/L	ID	ID	220	1.5 (X)	0.005 (A)	1,400	0.005 (A)	220	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.0003 J	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U
Naphthalene	mg/L	NA	31 (S)	31 (S)	0.011	1.5	31 (S)	0.52	31 (S)	0.005 U	NA	NA	0.005 U	0.005 U	NA	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	0.005 U	0.005 U
n-Butylbenzene	mg/L	ID	ID	5.9	ID	0.23	ID	0.08	ID	NA	NA	NA	0.001 U	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	0.001 U	NA
n-Propylbenzene	mg/L	ID	ID	15	ID	0.23	ID	0.08	ID	0.001 U	NA	NA	0.001 U	0.001 U	NA	NA	NA	0.001 U	0.001 U	NA	NA	NA	NA	NA	0.001 U	0.001 U
o-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-84-11S 10/21/11	RFI-84-12 12/03/08	RFI-84-12 09/23/09	RFI-84-12 10/19/10	RFI-84-12 10/21/11	RFI-86-01R 06/25/02	RFI-86-01R 04/02/03	RFI-86-01R 10/07/04	RFI-86-01R 10/28/10	RFI-86-01R 10/25/11	RFI-86-16R 09/16/03	RFI-86-16R 10/06/04	RFI-86-16R 06/27/07	RFI-86-16R 10/29/07	RFI-86-16R 09/15/08	RFI-86-16R 10/18/10	RFI-86-16R 10/24/11
p-Isopropyltoluene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.005 U	NA	NA	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	0.005 U	NA
sec-Butylbenzene	mg/L	ID	ID	4.4	ID	0.23	ID	0.08	ID	NA	NA	NA	0.001 U	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	0.001 U	NA
Styrene	mg/L	140	310 (S)	9.7	0.08 (X)	0.1 (A)	310 (S)	0.1 (A)	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
tert-Butylbenzene	mg/L	ID	ID	8.9	ID	0.23	ID	0.08	ID	NA	NA	NA	0.001 U	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	0.001 U	NA
Tetrachloroethene	mg/L	ID	200 (S)	12	0.06 (X)	0.005 (A)	170	0.005 (A)	25	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Tetrahydrofuran	mg/L	60	3,600	1,600	11 (X)	0.27	16,000	0.095	6,900	NA	NA	NA	0.09 U	NA	NA	NA	NA	0.09 U	NA	NA	NA	NA	NA	NA	0.09 U	NA
Toluene	mg/L	61	ID	530 (S)	0.27	1 (E)	530 (S)	1 (E)	530 (S)	0.001 U	0.001	0.0002	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	mg/L	230	ID	220	1.5 (X)	0.1 (A)	200	0.1 (A)	85	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	0.001 U	NA	NA	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	0.001 U	NA
Trichloroethene	mg/L	ID	1,100 (S)	22	0.2 (X)	0.005 (A)	97	0.005 (A)	15	0.001	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Trichlorofluoromethane	mg/L	ID	1,100 (S)	1,100 (S)	NA	7.3	1,100 (S)	2.6	1,100 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl Chloride	mg/L	33	ID	1	0.013 (X)	0.002 (A)	13	0.002 (A)	1.1	0.001 U	0.002 J	0.002	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
PCB																										
Total PCBs	mg/L	ID	ID	0.0033 (AA)	0.0002 (M	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved																										
Total PCBs (Dissolved)	mg/L	ID	ID	0.0033 (AA)	0.0002 (M)	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																										
Antimony	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	0.0012 U	0.0012 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	0.0011	0.0018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	0.016	0.061	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	0.00040 U	0.00040 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	0.00092	0.00037	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	0.00089	0.0017	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	0.0048	0.0040	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	0.0039	0.0050	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	0.005 U	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	0.00075	0.0013	NA	0.003 U [0.003 UJ]	0.003 U	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	**0.90 (RDW)**	0.47 J	NA	0.019 [0.018]	0.005 U	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	0.0002 U	0.0002 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	0.015	0.030	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	0.005 U	0.005 U	0.0023 J	0.0054	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	0.00040 UJ	0.00040 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	0.00020 U	0.00020 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	0.00022 J	0.00021 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	0.060	0.22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved																										
Antimony (Dissolved)	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-94-10 12/15/03	RFI-94-10 10/08/04	RFI-94-10 10/25/11	RFI-94-11 04/07/05	RFI-94-11 12/08/05	RFI-94-11 06/28/07	RFI-94-11 11/02/07	RFI-94-11 03/27/08	RFI-94-11 06/19/08	RFI-94-11 09/12/08	RFI-94-11 12/05/08	RFI-94-11 10/18/10
VOC																					
1,1,1,2-Tetrachloroethane	mg/L	ID	ID	30	ID	0.32	96	0.077	15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U
1,1,1-Trichloroethane	mg/L	ID	1,300 (S)	1,300 (S)	0.089	0.2 (A)	1,300 (S)	0.2 (A)	660	0.001 U	0.0003 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
1,1,2,2-Tetrachloroethane	mg/L	ID	ID	4.7	0.078 (X)	0.035	77	0.0085	12	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
1,1,2-trichloro-1,2,2-trifluoroethane	mg/L	ID	170 (S)	170 (S)	0.032	170 (S)	170 (S)	170 (S)	170 (S)	0.001 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U	0.03 U [0.03 U]	NA
1,1,2-Trichloroethane	mg/L	NA	ID	21	0.33 (X)	0.005 (A)	110	0.005 (A)	17	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
1,1-Dichloroethane	mg/L	380	ID	2,400	0.74	2.5	2,300	0.88	1,000	0.001 U	0.0004 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
1,1-Dichloroethene	mg/L	97	140	11	0.13	0.007 (A)	1.3	0.007 (A)	0.2	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
1,2,3-Trichlorobenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U
1,2,3-Trichloropropane	mg/L	NA	ID	84	NA	0.12	18	0.042	8.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U
1,2,3-Trimethylbenzene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U
1,2,4-Trichlorobenzene	mg/L	NA	300 (S)	19	0.099 (X)	0.07 (A)	300 (S)	0.07 (A)	300 (S)	0.005 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U [0.002 U]	0.005 U
1,2,4-Trimethylbenzene	mg/L	56 (S)	ID	56 (S)	0.017	2.9 (E)	56 (S)	1 (E)	56 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U
1,2-Dibromo-3-chloropropane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.005 U
1,2-Dibromoethane	mg/L	ID	ID	0.025	0.0057 (X)	0.00005 (A)	15	0.00005 (A)	2.4	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
1,2-Dichlorobenzene	mg/L	NA	160 (S)	160 (S)	0.013	0.6 (A)	160 (S)	0.6 (A)	160 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
1,2-Dichloroethane	mg/L	2,500	ID	19	0.36 (X)	0.005 (A)	59	0.005 (A)	9.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
1,2-Dichloropropane	mg/L	550	2,800 (S)	16	0.23 (X)	0.005 (A)	36	0.005 (A)	16	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
1,3,5-Trimethylbenzene	mg/L	ID	ID	61 (S)	0.045	2.9 (E)	61 (S)	1 (E)	61 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U
1,3-Dichlorobenzene	mg/L	ID	ID	2	0.028	0.019	41	0.0066	18	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
1,4-Dichlorobenzene	mg/L	NA	ID	6.4	0.017	0.075 (A)	74 (S)	0.075 (A)	16	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
2-Butanone	mg/L	ID	240,000 (S)	240,000 (S)	2.2	38	240,000 (S)	13	240,000 (S)	0.025 U	0.03 U	0.02 U	0.03 U	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U [0.02 U]	0.03 U
2-Hexanone	mg/L	NA	ID	5,200	ID	2.9	8,700	1	4,200	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 U	0.05 UJ	0.05 UJ [0.05 UJ]	0.05 U
2-Methylnaphthalene	mg/L	ID	ID	25 (S)	0.019	0.75	25 (S)	0.26	25 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U
4-Methyl-2-pentanone	mg/L	ID	20,000 (S)	13,000	ID	5.2	20,000 (S)	1.8	20,000 (S)	0.05 U	0.001 U	0.01 U	0.001 U	0.001 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U [0.01 U]	0.05 U
Acetone	mg/L	15,000	1,000,000 (D)	31,000	1.7	2.1	1,000,000 (D,S)	0.73	1,000,000 (D,S)	0.025 U	0.03 U	0.02 U	0.03 UJ	0.03 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 UJ [0.02 UJ]	0.05 U
Acrylonitrile	mg/L	6,400	ID	14	0.002 (M)	0.011	190	0.0026	34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.002 U
Benzene	mg/L	68	67	11	0.2 (X)	0.005 (A)	35	0.005 (A)	5.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Bromobenzene	mg/L	ID	ID	12	NA	0.05	390	0.018	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U
Bromochloromethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U
Bromodichloromethane	mg/L	ID	ID	14	ID	0.08 (A,W)	37	0.08 (A,W)	4.8	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Bromoform	mg/L	ID	ID	140	ID	0.08 (A,W)	3,100 (S)	0.08 (A,W)	470	0.001 U	0.001 UJ	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Bromomethane	mg/L	ID	ID	70	0.035	0.029	9	0.01	4	0.001 U	0.002 UJ	0.002 U	R	0.002 U	0.002 U	0.002 U	0.002 UJ	0.002 UJ	0.002 U	0.002 U [0.002 U]	0.005 U
Carbon Disulfide	mg/L	13	ID	1,200 (S)	ID	2.3	550	0.8	250	0.005 U	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U
Carbon Tetrachloride	mg/L	ID	96	4.6	0.045 (X)	0.005 (A)	2.4	0.005 (A)	0.37	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Chlorobenzene	mg/L	160	ID	86	0.025	0.1 (A)	470 (S)	0.1 (A)	210	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Chloroethane	mg/L	110	ID	440	1.1 (X)	1.7	5,700 (S)	0.43	5,700 (S)	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 UJ	0.001 U	0.001 U [0.001 U]	0.005 U
Chloroform	mg/L	ID	ID	150	0.35	0.08 (A,W)	180	0.08 (A,W)	28	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Chloromethane	mg/L	36	210	490	ID	1.1	45	0.26	8.6	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.005 U
cis-1,2-Dichloroethene	mg/L	530	ID	200	0.62	0.07 (A)	210	0.07 (A)	93	0.001 U	0.0007 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
cis-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Cyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.005 U	0.001 U	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ	0.001 U [0.001 U]	NA
Dibromochloromethane	mg/L	ID	ID	18	ID	0.08 (A,W)	110	0.08 (A,W)	14	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.005 U
Dibromomethane	mg/L	ID	ID	530	NA	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U
Dichlorodifluoromethane	mg/L	ID	ID	300 (S)	ID	4.8	300 (S)	1.7	220	0.001 U	0.001 UJ	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.005 U
Diethyl ether	mg/L	650	61,000 (S)	35,000	ID	10 (E)	61,000 (S)	3.7 (E)	61,000 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.01 U
Ethylbenzene	mg/L	43	170 (S)	170 (S)	0.018	0.7 (E)	170 (S)	0.7 (E)	110	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Hexachloroethane	mg/L	ID	ID	1.9	0.0067 (X)	0.021	50 (S)	0.0073	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U
Iodomethane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U
Isopropylbenzene	mg/L	29	ID	56 (S)	0.028	2.3	56 (S)	0.8	56 (S)	0.005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.005 U
m&p-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.002 U	0.001 U	0.002 U	0.001 U	0.001 U	0.0002 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.002 U
Methyl acetate	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.005 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U	0.01 U [0.01 U]	NA
Methyl tert-butyl ether	mg/L	ID	ID	610	7.1 (X)	0.69 (E)	47,000 (S)	0.24 (E)	47,000 (S)	0.005 U	0.005 U	0.005 U	0.005 UJ	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U
Methylcyclohexane	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U	0.02 U [0.02 U]	NA
Methylene Chloride	mg/L	ID	ID	220	1.5 (X)	0.005 (A)	1,400	0.005 (A)	220	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U	0.005 U [0.005 U]	0.005 U
Naphthalene	mg/L	NA	31 (S)	31 (S)	0.011	1.5	31 (S)	0.52	31 (S)	NA	NA	0.005 U	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U
n-Butylbenzene	mg/L	ID	ID	5.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U
n-Propylbenzene	mg/L	ID	ID	15	ID	0.23	ID	0.08	ID	NA	NA	0.001 U	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U
o-Xylene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: / Date Collected:	Units	FE	GAI	GCC	GSI	NDW	NGVIA	RDW	RGVIA	RFI-94-10 12/15/03	RFI-94-10 10/08/04	RFI-94-10 10/25/11	RFI-94-11 04/07/05	RFI-94-11 12/08/05	RFI-94-11 06/28/07	RFI-94-11 11/02/07	RFI-94-11 03/27/08	RFI-94-11 06/19/08	RFI-94-11 09/12/08	RFI-94-11 12/05/08	RFI-94-11 10/18/10
p-Isopropyltoluene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.005 U
sec-Butylbenzene	mg/L	ID	ID	4.4	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U
Styrene	mg/L	140	310 (S)	9.7	0.08 (X)	0.1 (A)	310 (S)	0.1 (A)	170	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 UJ [0.001 U]	0.001 U
tert-Butylbenzene	mg/L	ID	ID	8.9	ID	0.23	ID	0.08	ID	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U
Tetrachloroethene	mg/L	ID	200 (S)	12	0.06 (X)	0.005 (A)	170	0.005 (A)	25	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Tetrahydrofuran	mg/L	60	3,600	1,600	11 (X)	0.27	16,000	0.095	6,900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.09 U
Toluene	mg/L	61	ID	530 (S)	0.27	1 (E)	530 (S)	1 (E)	530 (S)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0002 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
trans-1,2-Dichloroethene	mg/L	230	ID	220	1.5 (X)	0.1 (A)	200	0.1 (A)	85	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
trans-1,3-Dichloropropene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
trans-1,4-Dichloro-2-butene	mg/L	- -	- -	- -	- -	- -	- -	- -	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.001 U
Trichloroethene	mg/L	ID	1,100 (S)	22	0.2 (X)	0.005 (A)	97	0.005 (A)	15	0.0025	0.003	0.001	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Trichlorofluoromethane	mg/L	ID	1,100 (S)	1,100 (S)	NA	7.3	1,100 (S)	2.6	1,100 (S)	0.001 U	0.0009 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
Vinyl Chloride	mg/L	33	ID	1	0.013 (X)	0.002 (A)	13	0.002 (A)	1.1	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U [0.001 U]	0.001 U
PCB																					
Total PCBs	mg/L	ID	ID	0.0033 (AA)	0.0002 (M	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB-Dissolved																					
Total PCBs (Dissolved)	mg/L	ID	ID	0.0033 (AA)	0.0002 (M)	0.0005 (A)	0.045 (S)	0.0005 (A)	0.045 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																					
Antimony	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (total)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic-Dissolved																					
Antimony (Dissolved)	mg/L	ID	ID	68	0.13 (X)	0.006 (A)	NLV	0.006 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	mg/L	ID	ID	4.3	0.01	0.01 (A)	NLV	0.01 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	mg/L	ID	ID	14,000	1.308 (G)	2 (A)	NLV	2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	mg/L	ID	ID	290	0.0323 (G)	0.004 (A)	NLV	0.004 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	mg/L	ID	ID	190	0.0048 (G,X)	0.005 (A)	NLV	0.005 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	mg/L	- -	- -	460	0.011	0.1 (A)	- -	0.1 (A)	- -	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	mg/L	ID	ID	2,400	0.1	0.1	NLV	0.04	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	mg/L	ID	ID	7,400	0.0216 (G)	4 (E)	NLV	1.4 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cyanide (dissolved)	mg/L	ID	ID	57	0.0052	0.2 (A)	NLV	0.2 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	mg/L	ID	ID	ID	0.0309 (G,X)	0.004 (L)	NLV	0.004 (L)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	mg/L	ID	ID	9,100	4.767 (G,X)	2.5 (E)	NLV	0.86 (E)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	mg/L	ID	ID	0.056 (S)	0.0000013	0.002 (A)	0.056 (S)	0.002 (A)	0.056 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	mg/L	ID	ID	74,000	0.1243 (G)	0.1 (A)	NLV	0.1 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	mg/L	ID	ID	970	0.005	0.05 (A)	NLV	0.05 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	mg/L	ID	ID	1,500	0.0002 (M)	0.098	NLV	0.034	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	mg/L	ID	ID	13	0.0037 (X)	0.002 (A)	NLV	0.002 (A)	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	mg/L	ID	ID	970	0.012	0.062	NLV	0.0045	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	mg/L	ID	ID	110,000	0.2827 (G)	5 (E)	NLV	2.4	NLV	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

General Notes:

Samples were collected by ARCADIS., and submitted Merit Laboratories, for analysis of MDEQ List volatile organic compounds, select inorganics and PCBs.
Duplicate results are presented in brackets.
Groundwater concentrations are presented in milligrams per liter (mg/L).
Total Xylenes reported as the sum of m&p-Xylene and o-Xylene.
Highlighted cells represent constituent concentrations that exceed at least one of the listed Michigan Part 201 Criteria:

RDW = Residential Drinking Water criteria, updated March 2011.
NDW = Non-Residential Drinking Water criteria, updated March 2011.
GSI = Groundwater/Surface Water Interaction criteria, updated December 2010.
GCC = Groundwater Contact criteria, updated March 2011.
GAI = Groundwater Acute Inhalation Screening Level, updated March 2011.
RGVIA = Residential Groundwater Volatilization to Indoor Air Inhalation criteria, updated March 2011.
NGVIA = Non-Residential Groundwater Volatilization to Indoor Air Inhalation criteria, updated March 2011.
FE = Flammability and Explosivity Screening Level, updated March 2011.

GSI criteria compared to samples located within 500 feet of the Flint River, which includes wells: RFI-94-11, RFI-94-10, RFI-84-11S, RFI-84-09S, RFI-84-09D, RFI-84-12, RFI-17-02D, RFI-17-02, RFI-84-06R, RFI-09-48, RFI-09-46, MW-23, MW-26.

Data Qualifiers:

U = Not detected. The value represents the associated detection limit.
NS = Not analyzed for this constituent.
D = Concentration is based on a diluted sample analysis.
J = The compound/constituent was positively identified; however, the associated numerical value is an estimated concentration only.
E = Measured concentration exceeded the linear range of the instrument. A diluted sample analysis was run; however, the undiluted result was chosen as representative of the sample concentration.
R = Indicates that the previously reported detection limit or sample result has been rejected due to a major deficiency in the data generation procedure. The data shall not be used for any qualitative or quantitative purposes.
Y = Elevated reporting limit due to high target concentration.

MDEQ Criteria Qualifiers:

ID = *Inadequate data* to develop criterion.
NA = Criterion or value is *not available* or, as is the case for Csat, *not applicable*.
{A} = Criterion is the State of Michigan Drinking Water Standard established pursuant to Section 5 of the Safe Drinking Water Act, Act No. 399 of the Public Acts of 1976.
{D} = Calculated criterion exceeds 100%, hence it is reduced to 100% (i.e., 1.0E+9 ppb). Evaluation of free phase contaminant, environmental impacts, adverse aesthetics and acute or local toxicity is required.
{E} = Criterion is the aesthetic drinking water value, as required by Sec. 20120(1)(5). A Notice of Aesthetic Impact may be employed as an institutional control mechanism where groundwater concentrations exceed the aesthetic DWC, but do not exceed the applicable health-based DWC. Health-based DWC are provided in the table below.

Hazardous Substance	CAS #	Residential Health-Based DWC	Non-Residential Health-Based DWC
Aluminum	7429905	300	4,100
Copper	7440508	1,400	4,000
Diethyl ether	60297	3,700	10,000
Ethylbenzene	100414	700	700
Iron	7439896	2,000	5,600
Manganese	7439965	860	2,500
Methyl-tert-butyl ether (MTBE)	1634044	240	690
Toluene	108883	1,000	1,000
1,2,4-Trimethylbenzene	95636	1,000	2,900
1,3,5-Trimethylbenzene	108678	1,000	2,900
Xylenes	1330207	10,000	10,000

{G} = GSI criterion is pH or water hardness dependent. The Final Chronic Value (FCV) for the protection of aquatic life must be calculated based on the pH or hardness of the receiving surface water. Where water hardness exceeds 400 mg CaCO3/L, use 400 mg CaCO3/L for the FCV calculation. The FCV formula provides values in units of ug/L (ppb). The generic GSI criterion is the lesser of the calculated FCV, the wildlife value (WV), and the surface water human non-drinking water value (HNDV). The soil GSI protection criteria for these hazardous substances are the greater of the 20 X GSI and the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.

Hazardous Substance	FCV Formula (ug/L)	FCV Conversion Factor (CF)	WV (ug/L)	HNDV (ug/L)
Barium[x]	EXP(1.0629*(LnH)+1.1869)	NA	NA	1.6E+5
Beryllium	EXP(2.5279*(LnH)-10.7689)	NA	NA	1,200
Cadmium[x]	(EXP(0.7852*(LnH)-2.715))*CF	1.101672-((LnH)*0.04184)	NA	130
Chromium (III)[x]	(EXP(0.819*(LnH)+0.6848))*CF	0.86	NA	9,400
Copper	(EXP(0.8545*(LnH)-1.702))*CF	0.96	NA	64,000
Lead[x]	(EXP(1.273*(LnH)-3.296))*CF	1.46203-((LnH)*0.14571)	NA	190
Manganese	EXP(0.8784*(LnH)+2.226)	NA	NA	59,000
Nickel	(EXP(0.846*(LnH)+0.0584))*CF	0.997	NA	2.1E+5
Pentachlorophenol[x]	EXP(1.005*(pH)-5.134)	NA	NA	2.8
Zinc	(EXP(0.8473*(LnH)+0.884))*CF	0.986	NA	22,000

Where,

EXP(x) = The base of the natural logarithm raised to power x (e^x).
LnH = The natural logarithm of water hardness in mg $CaCO_3$/L.
SS = Total suspended solids in mg/L.
* = The multiplication symbol.
[x] = The GSI criterion developed here may not be protective for surface water that is used as a drinking water source. Refer to footnote {X} for further guidance.

Table 7. 2011 Annual Groundwater Sampling Event and Historical Groundwater Analytical Data, 2011 CMI Annual Report
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MDEQ Criteria Qualifiers (Cont'd.):

A spreadsheet that may be used to calculate GSI and GSI PC for {G} footnoted hazardous substances is available at http://www.deq.state.mi.us/erd.

{I} = Hazardous substance may exhibit the characteristic of ignitability as defined in 40 CFR 261.21.
{J} = Hazardous substance may be present in several isomer forms. Isomer-specific concentrations must be added together for comparison to criteria.
{M} = Calculated criterion is below the analytical Target Detection Limit (TDL), therefore, the criterion defaults to the TDL.
{R} = Hazardous substance may exhibit the characteristic of reactivity as defined in 40 CFR 261.23.
{S} = Criterion defaults to the chemical-specific water solubility limit.
{W} = Concentrations of trihalomethanes in groundwater must be added together to determine compliance with the State of Michigan Drinking Water Standard of 100 ug/L. Concentrations of trihalomethanes in soil must be added together to det compliance with the DWPC of 2,000 ug/kg.
{X} = The GSI criterion shown is not protective for surface water that is used as a drinking water source. For groundwater discharges to the Great Lakes and their connecting waters or discharges in close proximity to water supply intake(s) in inl surface waters, the generic GSI criterion is the Surface Water Human Drinking Water Value (HDV) listed in the table below except for those HDV indicated with an asterisk. For HDV with an asterisk, the generic GSI criterion is the lesser of HDV, the WV and the calculated FCV (see formulas in footnote {G}). Soil protection criteria based on the HDV are listed below except for those values with an asterisk. Soil GSI protection criteria for compounds with an asterisk are the gre the 20 X GSI and GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.

Hazardous Substance	Chemical Abstract Service Number	Surface Water Human Drinking Water Values (HDV) (ug/L)	Soil GSI Protection Criteria for HDV (ug/Kg)
Acrylonitrile	107131	2.0 (M); 0.87	100 (M); 17
Alachlor	15972608	3.5	91
Antimony	7440360	2	1,400
Arsenic	7440382	50	23,000
Atrazine	1912249	4.3	86
Barium	7440393	1,900*	*
Benzene	71432	12	240
bis(2-Chloroethyl)ether	111444	1 (M); 0.79	100 (M); 20
Bromate	15541454	10 (M); 0.5	200 (M); 10
Butyl benzyl phthalate	85687	6.9	13,000
Cadmium	7440439	2.5*	*
Carbon tetrachloride	56235	5.6	110
Chloride	16887006	50,000	1,000,000
Chloroform	67663	77	1,500
Chromium (III)	16065831	120*	*
Cyanazine	21725462	2 (M); 0.93	200 (M); 40
3,3'-Dichlorobenzidine	91941	0.3 (M); 0.14	2,000 (M); 7.7
1,2-Dichloroethane	107062	6	120
1,1-Dichloroethylene	75354	24	480
1,2-Dichloropropane	78875	9.1	180
N,N-Dimethylacetamide	127195	700	14,000
1,4-Dioxane	123911	34	680
Ethylene dibromide	106934	0.05 (M); 0.006	20 (M); 1.0
Ethylene glycol	107211	56,000	1,100,000
Heptachlor	76448	0.01 (M); 0.0017	NLL
beta-Hexachlorocyclohexane	319857	0.024	20 (M)
Hexachloroethane	67721	5.3	310
Isophorone	78591	310	6,200
Isopropyl alcohol	67630	28,000	560,000
Lead	7439921	14*	*
Manganese	7439965	3600	72,000
Methyl-tert-butyl ether (MTBE)	1634044	100	2,000
Methylene chloride	75092	47	940
Mirex	2385855	0.02 (M); 1.6E-5	NLL
Molybdenum	7439987	120	2,400
Nitrobenzene	98953	4.7	330 (M); 94
Pentachlorophenol	87865	1.8*	*
1,2,4,5-Tetrachlorobenzene	95943	2.8	3,300
1,1,1,2-Tetrachloroethane	630206	19	380
1,1,2,2-Tetrachloroethane	79345	3.2	64
Tetrachloroethylene	127184	11	220
Tetrahydrofuran	109999	350	7,000
Thallium	7440280	2.0 (M); 1.2	2,300
1,1,2-Trichloroethane	79005	12	240
Trichloroethylene	79016	29	580

Table 8. 2011 NPMP Monitoring Points and Rationale, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Outfall	Monitoring Point	Current Frequency	Sample Type	Analytes	Sampling Rationale
001	MP001	Monthly	Dry weather - Grab	VOCs (MDNRE List) Metals [1] Cyanide	Select VOCs and metals were detected in the sample collected from Outfall 001 in support of the 2010 NPDES Permit (permit); therefore, the NPMP samples collected from Outfall 001 have been analyzed for VOCs (MDNRE list) and metals [1]. Cyanide was not detected in the sample collected from Outfall 001 in support of the permit; however, cyanide was detected above criteria in groundwater samples collected from the Outfall 001 drainage area; therefore, the NPMP samples collected from Outfall 001 have been analyzed for cyanide in order to monitor the storm sewers for possible infiltration of cyanide impacted groundwater. TSS was added in February 2011 to monitor the trend between total suspended solids and metal concentrations.
		Yearly [2]	Dry weather - Grab	SVOCs (MDNRE List)	SVOCs were not detected in the sample collected from Outfall 001 in support of the permit and therefore were not included in the NPMP monthly sampling. However, SVOCs were detected above criteria in groundwater samples collected from the Outfall 001 drainage area; therefore, a yearly sample has been collected from Outfall 001 and analyzed for SVOCs (MDNRE List) in order to monitor the storm sewers for possible infiltration of SVOC impacted groundwater.
002	MP002	Monthly	Dry weather - Grab	VOCs (MDNRE List) Metals [1] Cyanide	Select VOCs and metals were detected in the sample collected from Outfall 002 in support of the permit; therefore, the NPMP samples collected from Outfall 002 have been analyzed for VOCs (MDNRE list) and metals[1]. Cyanide was not detected in the sample collected from Outfall 002 in support of the permit; however, cyanide was detected above criteria in groundwater samples collected from the Outfall 002 drainage area; therefore, the NPMP samples collected from Outfall 002 have been analyzed for cyanide in order to monitor the storm sewers for possible infiltration of cyanide impacted groundwater. TSS was added in February 2011 to monitor the trend between total suspended solids and metal concentrations.
		Yearly [2]	Dry weather - Grab	SVOCs (MDNRE List)	SVOCs were not detected in the sample collected from Outfall 002 in support of the permit and therefore were not included in the NPMP monthly sampling. However, SVOCs were detected above criteria in groundwater samples collected from the Outfall 002 drainage area; therefore, a yearly sample has been collected from Outfall 002 and analyzed for SVOCs (MDNRE List) in order to monitor the storm sewers for possible infiltration of SVOC impacted groundwater.
003	MP003	Monthly	Dry weather - Grab	VOCs (MDNRE List) Metals [1] Cyanide	Select metals were detected in the sample collected from Outfall 003 in support of the permit; therefore, the NPMP samples collected from Outfall 003 have been analyzed for metals[1]. VOCs and cyanide were not detected in the sample from Outfall 003 in support of the permit; however, VOCs and cyanide were detected above criteria in groundwater samples collected from the Outfall 003 drainage area; therefore, the NPMP samples collected from Outfall 003 have been analyzed for VOCs and cyanide in order to monitor the storm sewers for possible infiltration of impacted groundwater. Oil and grease was not detected in the sample collected from Outfall 001 in support of the permit and there is not a GSI criteria for this analyte; therefore, oil and grease will not be analyzed for in the NPMP.
		Monthly	Dry weather - 24-hr Composite	PCBs	PCBs were not detected in the sample collected from Outfall 003 in support of the permit. However due to the presence of PCB-containing LNAPL in the Outfall 003 drainage area and the presence of oil in the storm sewer, the NPMP samples collected from Outfall 003 will be analyzed for PCBs.
		Yearly [2]	Dry weather - Grab	SVOCs (MDNRE List)	SVOCs were not detected in the sample collected from Outfall 003 in support of the permit and therefore were not included in the NPMP monthly sampling. However, SVOCs were detected above criteria in groundwater samples collected from the Outfall 003 drainage area; therefore, a yearly sample will be collected from Outfall 003 and analyzed for SVOCs(MDNRE List) in order to monitor the storm sewers for possible infiltration of SVOC impacted groundwater.

Table 8. 2011 NPMP Monitoring Points and Rationale, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Outfall	Monitoring Point	Current Frequency	Sample Type	Analytes	Sampling Rationale
005	MP005	Monthly	Dry weather - Grab	Metals [1] Cyanide	Select metals were detected in the sample collected from Outfall 005 in support of the permit; therefore, the NPMP samples collected from Outfall 005 will be analyzed for metals[1]. Cyanide was not detected in the sample collected from Outfall 005 in support of the permit; however, cyanide was detected above criteria in groundwater samples collected from the Outfall 005 drainage area; therefore, the NPMP samples collected from Outfall 005 will be analyzed for cyanide in order to monitor the storm sewers for possible infiltration of cyanide impacted groundwater. TSS was added in February 2011 to monitor the trend between total suspended solids and metal concentrations.
		Monthly	Dry weather - 24-hr Composite	PCBs	PCBs were not detected in the sample collected from Outfall 005 in support of the permit. However due to the presence of PCB-containing LNAPL in the Outfall 005 drainage area and the presence of oil in the storm sewer, the NPMP samples collected from Outfall 005 have been analyzed for PCBs.
		Yearly [2]	Dry weather - Grab	SVOCs (MDNRE List)	SVOCs were not detected in the sample collected from Outfall 005 in support of the permit and therefore were not included in the NPMP monthly sampling. However, SVOCs were detected above criteria in groundwater samples collected from the Outfall 005 drainage area; therefore, a yearly sample has been collected from Outfall 005 and analyzed for SVOCs (MDNRE List) in order to monitor the storm sewers for possible infiltration of SVOC impacted groundwater.
006	MP006	Monthly	Dry weather - Grab	VOCs (MDNRE List) Metals [1] Cyanide	Select VOCs and metals were detected in the sample collected from Outfall 006 in support of the 2010 NPDES Permit (permit); therefore, the NPMP samples collected from Outfall 006 have been analyzed for VOCs (MDNRE list) and metals [1]. Cyanide was not detected in the sample collected from Outfall 006 in support of the permit; however, cyanide was detected above criteria in groundwater samples collected from the Outfall 006 drainage area; therefore, the NPMP samples collected from Outfall 006 have been analyzed for cyanide in order to monitor the storm sewers for possible infiltration of cyanide impacted groundwater. TSS was added in February 2011 to monitor the trend between total suspended solids and metal concentrations.
007	MP007	Monthly	Dry weather - Grab	VOCs (MDNRE List) Metals [1] Cyanide	Select VOCs and metals were detected in the sample collected from Outfall 007 in support of the permit; therefore, the NPMP samples collected from Outfall 007 have been analyzed for VOCs (MDNRE list) and metals[1]. Cyanide was not detected in the sample collected from Outfall 007 in support of the permit; however, cyanide was detected above criteria in groundwater samples collected from the Outfall 007 drainage area; therefore, the NPMP samples collected from Outfall 007 have been analyzed for cyanide in order to monitor the storm sewers for possible infiltration of cyanide impacted groundwater. TSS was added in February 2011 to monitor the trend between total suspended solids and metal concentrations.
		Yearly [2]	Dry weather - Grab	SVOCs (MDNRE List)	SVOCs were not detected in the sample collected from Outfall 007 in support of the permit and therefore were not included in the NPMP monthly sampling. However, SVOCs were detected above criteria in groundwater samples collected from the Outfall 007 drainage area; therefore, a yearly sample has been collected from Outfall 007 and analyzed for SVOCs (MDNRE List) in order to monitor the storm sewers for possible infiltration of SVOC impacted groundwater.

Table 8. 2011 NPMP Monitoring Points and Rationale, 2011 CMI Annual Report
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Outfall	Monitoring Point	Current Frequency	Sample Type	Analytes	Sampling Rationale
009	MP009	Monthly	Dry weather - Grab	VOCs (MDNRE List) Metals [1] Cyanide	Select VOCs and metals were detected in the sample collected from Outfall 009 in support of the 2010 NPDES Permit (permit); therefore, the NPMP samples collected from Outfall 009 have been analyzed for VOCs (MDNRE list) and metals [1]. Cyanide was not detected in the sample collected from Outfall 009 in support of the permit; however, cyanide was detected above criteria in groundwater samples collected from the Outfall 009 drainage area; therefore, the NPMP samples collected from Outfall 009 have been analyzed for cyanide in order to monitor the storm sewers for possible infiltration of cyanide impacted groundwater. TSS was added in February 2011 to monitor the trend between total suspended solids and metal concentrations.
		Yearly [2]	Dry weather - Grab	SVOCs (MDNRE List)	SVOCs were not detected in the sample collected from Outfall 009 in support of the permit and therefore were not included in the NPMP monthly sampling. However, SVOCs were detected above criteria in groundwater samples collected from the Outfall 009 drainage area; therefore, a yearly sample has been collected from Outfall 009 and analyzed for SVOCs (MDNRE List) in order to monitor the storm sewers for possible infiltration of SVOC impacted groundwater.
010	MP010	Monthly	Dry weather - Grab	VOCs (MDNRE List) Metals [1] Cyanide	Select VOCs, metals, and cyanide were detected in the sample collected from Outfall 010 in support of the 2010 NPDES Permit (permit); therefore, the NPMP samples collected from Outfall 010 have been analyzed for VOCs (MDNRE list), metals [1], and cyanide. TSS was added in February 2011 to monitor the trend between total suspended solids and metal concentrations.
		Yearly [2]	Dry weather - Grab	SVOCs (MDNRE List)	SVOCs were not detected in the sample collected from Outfall 010 in support of the permit and therefore were not included in the NPMP monthly sampling. However, SVOCs were detected above criteria in groundwater samples collected from the Outfall 010 drainage area; therefore, a yearly sample has been collected from Outfall 010 and analyzed for SVOCs (MDNRE List) in order to monitor the storm sewers for possible infiltration of SVOC impacted groundwater.
011	DP011	Monthly	Dry weather - Grab	VOCs (MDNRE List) Metals [1] Cyanide	Select VOCs, metals, and cyanide were detected in the sample collected from Outfall 011 in support of the 2010 NPDES Permit (permit); therefore, the NPMP samples collected from Outfall 011 have been analyzed for VOCs (MDNRE list), metals [1], and cyanide. TSS was added in February 2011 to monitor the trend between total suspended solids and metal concentrations.
		Yearly [2]	Dry weather - Grab	SVOCs (MDNRE List)	SVOCs were not detected in the sample collected from Outfall 011 in support of the permit and therefore were not included in the NPMP monthly sampling. However, SVOCs were detected above criteria in groundwater samples collected from the Outfall 011 drainage area; therefore, a yearly sample has been collected from Outfall 011 and analyzed for SVOCs (MDNRE List) in order to monitor the storm sewers for possible infiltration of SVOC impacted groundwater.
013	MP013	Monthly	Dry weather - Grab	Metals [1] Cyanide	Select metals and cyanide were detected in the sample collected from Outfall 013 in support of the permit; therefore, the NPMP samples collected from Outfall 013 has been analyzed for metals[1] and cyanide. TSS was added in February 2011 to monitor the trend between total suspended solids and metal concentrations.

Notes:

1. Metals analysis to include - Ag, As, Ba, Be, Cd, Cr (total), Co, Cu, Hg, Mn, Ni, Pb, Sb, Se,Tl, V, and Zn
2. SVOCs will be collected on a yearly basis for the first three years of the NPMP (ending in 2012).
3. Upgradient sampling locations (MH 1-7, MH 3-31, MH 3-51, MH 4-21, and MH 13-14) collected in August 2011 were analyzed for select metals[1] and cyanide.

Table 9. NPMP Summary of 2011 Data, 2011 CMI Annual Report
RACER Trust, Buick City Site, Flint, Michigan

Sample Name: / Date Collected:	GSI	Units	Outfall 001 02/24/11	Outfall 001 03/24/11	Outfall 001 05/31/11	Outfall 001 06/27/11	Outfall 001 07/14/11	Outfall 001 08/15/11	Outfall 001 09/14/11	Outfall 001 10/12/11	Outfall 001 11/02/11	Outfall 001 12/13/11	Outfall 002 01/26/11	Outfall 002 02/24/11	Outfall 002 03/24/11	Outfall 002 04/29/11	Outfall 002 05/31/11	Outfall 002 06/27/11	Outfall 002 07/14/11	Outfall 002 08/15/11
VOC																				
1,1,1,2-Tetrachloroethane	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
1,1,1-Trichloroethane	89	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	11	9	6 [6]	8	4	4	5	22 [29]
1,1,2,2-Tetrachloroethane	78	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
1,1,2-Trichloroethane	330	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
1,1-Dichloroethane	740	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	25	17	12 [12]	8	8	8	13	13 [14]
1,1-Dichloroethene	130	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	1 [2]
1,2,3-Trichlorobenzene	- -	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5	<5	<5 [<5]
1,2,3-Trichloropropane	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
1,2,3-Trimethylbenzene	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
1,2,4-Trichlorobenzene	99	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5	<5	<5 [<5]
1,2,4-Trimethylbenzene	17	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
1,2-Dibromo-3-chloropropane	- -	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5	<5	<5 [<5]
1,2-Dibromoethane	5.7	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
1,2-Dichlorobenzene	13	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
1,2-Dichloroethane	360	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
1,2-Dichloropropane	230	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
1,3,5-Trimethylbenzene	45	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
1,3-Dichlorobenzene	28	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
1,4-Dichlorobenzene	17	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
2-Butanone	2,200	ug/L	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<30	<25	<25 [<25]	<25	<25	<25	<25	<25 [<25]
2-Hexanone	- -	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50 [<50]	<50	<50	<50	<50	<50 [<50]
2-Methylnaphthalene	19	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5	<5	<5 [<5]
4-Methyl-2-pentanone	- -	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50 [<50]	<50	<50	<50	<50	<50 [<50]
Acetone	1,700	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50 [<50]	<50	<50	<50	<50	<50 [<50]
Acrylonitrile	2	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2 [<2]	<2	<2	<2	<2	<2 [<2]
Benzene	200	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
Bromobenzene	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
Bromochloromethane	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
Bromodichloromethane	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
Bromoform	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
Bromomethane	35	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5	<5	<5 [<5]
Carbon Disulfide	- -	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5	<5	<5 [<5]
Carbon Tetrachloride	45	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
Chlorobenzene	25	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
Chloroethane	1,100	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	17	19	15 [14]	9	12	15	16	12 [11]
Chloroform	350	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
Chloromethane	- -	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5	<5	<5 [<5]
cis-1,2-Dichloroethene	620	ug/L	<1	1	<1	<1	<1	<1	2	2	1	1	12	9	6 [6]	3	5	5	8	8 [7]
cis-1,3-Dichloropropene	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
Dibromochloromethane	- -	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5	<5	<5 [<5]
Dibromomethane	- -	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5	<5	<5 [<5]
Dichlorodifluoromethane	- -	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5	<5	<5 [<5]
Diethyl ether	- -	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10 [<10]	<10	<10	<10	<10	<10 [<10]
Ethylbenzene	18	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
Hexachloroethane	6.7	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5	<5	<5 [<5]
Iodomethane	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
Isopropylbenzene	28	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5	<5	<5 [<5]
m&p-Xylene	- -	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2 [<2]	<2	2	3	<2	<2 [<2]
Methyl tert-butyl ether	7,100	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5	<5	<5 [<5]
Methylene Chloride	1,500	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5	<5	<5 [<5]
Naphthalene	11	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5	<5	<5 [<5]
n-Butylbenzene	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
n-Propylbenzene	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
o-Xylene	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	1	<1	<1 [<1]
p-Isopropyltoluene	- -	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5	<5	<5 [<5]
sec-Butylbenzene	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
Styrene	80	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
tert-Butylbenzene	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
Tetrachloroethene	60	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
Tetrahydrofuran	11,000	ug/L	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90 [<90]	<90	<90	<90	<90	<90 [<90]
Toluene	270	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	4	<1	1 [<1]

Table 9. NPMP Summary of 2011 Data, 2011 CMI Annual Report
RACER Trust, Buick City Site, Flint, Michigan

Sample Name: Date Collected:	GSI	Units	Outfall 001 02/24/11	Outfall 001 03/24/11	Outfall 001 05/31/11	Outfall 001 06/27/11	Outfall 001 07/14/11	Outfall 001 08/15/11	Outfall 001 09/14/11	Outfall 001 10/12/11	Outfall 001 11/02/11	Outfall 001 12/13/11	Outfall 002 01/26/11	Outfall 002 02/24/11	Outfall 002 03/24/11	Outfall 002 04/29/11	Outfall 002 05/31/11	Outfall 002 06/27/11	Outfall 002 07/14/11	Outfall 002 08/15/11
trans-1,2-Dichloroethene	1,500	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
trans-1,3-Dichloropropene	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
trans-1,4-Dichloro-2-butene	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
Trichloroethene	200	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	3	3	2 [2]	2	3	2	3	2 [2]
Trichlorofluoromethane	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
Vinyl Chloride	13	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	2	<1 [1]	<1	<1	<1	<1	<1 [<1]
SVOC																				
1,2,4-Trichlorobenzene	99	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	13	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	28	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	17	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	5	ug/L	NA	NA	NA	NA	NA	NA	NA	<4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	11	ug/L	NA	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	380	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	18	ug/L	NA	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	19	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	0.3	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	7.4	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	38	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	1	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	25	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	67	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	4	ug/L	NA	NA	NA	NA	NA	NA	NA	<4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	110	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	9.7	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	1.6	ug/L	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	12	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.053	ug/L	NA	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	1,300	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	11	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	180	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 9. NPMP Summary of 2011 Data, 2011 CMI Annual Report
RACER Trust, Buick City Site, Flint, Michigan

Sample Name: Date Collected:	GSI	Units	Outfall 001 02/24/11	Outfall 001 03/24/11	Outfall 001 05/31/11	Outfall 001 06/27/11	Outfall 001 07/14/11	Outfall 001 08/15/11	Outfall 001 09/14/11	Outfall 001 10/12/11	Outfall 001 11/02/11	Outfall 001 12/13/11	Outfall 002 01/26/11	Outfall 002 02/24/11	Outfall 002 03/24/11	Outfall 002 04/29/11	Outfall 002 05/31/11	Outfall 002 06/27/11	Outfall 002 07/14/11	Outfall 002 08/15/11
N-Nitroso-di-n-propylamine	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	2.8	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	2	ug/L	NA	NA	NA	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	450	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB																				
Aroclor-1016	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																				
Antimony	130	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5	<5	<5 [<5]
Arsenic	10	ug/L	<2	<2	<2	<2	2	<2	3	<2	<2	<2	**19**	10	6 [7]	5	6	6	7	10 [10]
Barium	1,308	ug/L	126	92	66	83	152	63	70	25	80	87	534	454	231 [234]	196	254	222	311	298 [298]
Beryllium	32.3	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
Cadmium	4.8	ug/L	2	1.6	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	1.8	1.4 [1.5]	<0.5	<0.5	<0.5	<0.5	0.7 [0.7]
Chromium Total	11	ug/L	**45**	<5	<5	<5	**28**	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5	11	<5 [<5]
Cobalt	100	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5	<5	<5 [<5]
Copper	21.6	ug/L	**31**	6	<4	4	**22**	<4	6	12	<4	<4	10	<4	8 [8]	14	6	<4	5	<4 [<4]
Cyanide (total)	5.2	ug/L	**12**	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5	<5	**10 [7]**
Lead	30.9	ug/L	27	16	<3	5	**73**	14	20	**37**	<3	10	12	8	14 [13]	17	6	<3	<3	15 [13]
Manganese	4,767	ug/L	95	35	10	18	298	<5	13	43	7	7	945	689	394 [394]	346	454	406	477	529 [527]
Mercury	1.3	ng/L	**13**	**4.6**	**1.8**	**2.9**	**12**	**1.4**	1.2	**210**	**3.1**	**1.6**	0.81	0.52	**5.6 [5.1]**	**4.6**	**2.7**	**88**	**2.0**	**2.3**
Nickel	124.3	ug/L	<5	<5	<5	<5	12	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5	9	<5 [<5]
Selenium	5	ug/L	<5	<5	<5	<5	**6**	<5	<5	<5	<5	<5	<5	**7**	<5 [<5]	<5	<5	<5	<5	<5 [<5]
Silver	0.2	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 [<0.5]	<0.5	<0.5	<0.5	**0.6**	<0.5 [<0.5]
Thallium	3.7	ug/L	<1	<1	<1	<1	<1	<1	<2	<1	<2	<2	<1	<1	<1 [<1]	<1	<1	<1	<1	<1 [<1]
Titanium	- -	ug/L	NA	NA	<20	<20	61	<20	<20	<20	<20	NA	NA	NA	NA	NA	<20	<20	<20	<20 [<20]
Vanadium	12	ug/L	<4	<4	<4	<4	5	<4	<4	<4	<4	<4	<4	<4	<4 [<4]	<4	<4	<4	<4	<4 [7]
Zinc	282.7	ug/L	235	36	<5	38	240	11	21	31	28	7	35	<5	28 [28]	29	15	13	8	8 [8]
Miscellaneous																				
Total Suspended Solids (TSS)	- -	ug/L	64,000	10,000	3,000	123,000	53,000	1,000	3,000	32,000	<1,000	4,000	NA	7,000	11,000 [13,000]	24,000	11,000	32,000	8,000	12,000 [12,000]
Inorganic-Dissolved																				
Antimony (Dissolved)	130	ug/L	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	10	ug/L	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	1,308	ug/L	91	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	430	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	32.3	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	4.8	ug/L	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.8	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	11	ug/L	**37**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	100	ug/L	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	21.6	ug/L	9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	30.9	ug/L	5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	4,767	ug/L	41	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	682	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	1.3	ng/L	1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.51	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	124.3	ug/L	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	5	ug/L	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**6**	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	0.2	ug/L	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.5	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	3.7	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	12	ug/L	<4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	282.7	ug/L	46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA

Table 9. NPMP Summary of 2011 Data, 2011 CMI Annual Report
RACER Trust, Buick City Site, Flint, Michigan

Sample Name: Date Collected:	GSI	Units	Outfall 002 09/14/11	Outfall 002 10/12/11	Outfall 002 11/02/11	Outfall 002 12/13/11	Outfall 003 01/26/11	Outfall 003 01/26/11	Outfall 003 02/24/11	Outfall 003 02/25/11	Outfall 003 03/24/11	Outfall 003 03/29/11	Outfall 003 04/29/11	Outfall 003 04/26/11	Outfall 003 05/31/11	Outfall 003 05/12/11	Outfall 003 06/27/11	Outfall 003 06/28/11	Outfall 003 07/14/11	Outfall 003 07/13/11
VOC																				
1,1,1,2-Tetrachloroethane	- -	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
1,1,1-Trichloroethane	89	ug/L	5	5 [5]	5 [5]	5 [5]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
1,1,2,2-Tetrachloroethane	78	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
1,1,2-Trichloroethane	330	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
1,1-Dichloroethane	740	ug/L	8	12 [11]	11 [11]	9 [10]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
1,1-Dichloroethene	130	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
1,2,3-Trichlorobenzene	- -	ug/L	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA
1,2,3-Trichloropropane	- -	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
1,2,3-Trimethylbenzene	- -	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
1,2,4-Trichlorobenzene	99	ug/L	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA
1,2,4-Trimethylbenzene	17	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
1,2-Dibromo-3-chloropropane	- -	ug/L	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA
1,2-Dibromoethane	5.7	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
1,2-Dichlorobenzene	13	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
1,2-Dichloroethane	360	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
1,2-Dichloropropane	230	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
1,3,5-Trimethylbenzene	45	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
1,3-Dichlorobenzene	28	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
1,4-Dichlorobenzene	17	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
2-Butanone	2,200	ug/L	<25	<25 [<25]	<25 [<25]	<25 [<25]	<30	NA	<25	NA	<25	NA	<25	NA	<25	NA	<25	NA	<25	NA
2-Hexanone	- -	ug/L	<50	<50 [<50]	<50 [<50]	<50 [<50]	<50	NA	<50	NA	<50	NA	<50	NA	<50	NA	<50	NA	<50	NA
2-Methylnaphthalene	19	ug/L	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA
4-Methyl-2-pentanone	- -	ug/L	<50	<50 [<50]	<50 [<50]	<50 [<50]	<50	NA	<50	NA	<50	NA	<50	NA	<50	NA	<50	NA	<50	NA
Acetone	1,700	ug/L	<50	<50 [<50]	<50 [<50]	<50 [<50]	<50	NA	<50	NA	<50	NA	<50	NA	<50	NA	<50	NA	<50	NA
Acrylonitrile	2	ug/L	<2	<2 [<2]	<2 [<2]	<2 [<2]	<2	NA	<2	NA	<2	NA	<2	NA	<2	NA	<2	NA	<2	NA
Benzene	200	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
Bromobenzene	- -	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
Bromochloromethane	- -	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
Bromodichloromethane	- -	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
Bromoform	- -	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
Bromomethane	35	ug/L	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA
Carbon Disulfide	- -	ug/L	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA
Carbon Tetrachloride	45	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
Chlorobenzene	25	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
Chloroethane	1,100	ug/L	8	14 [14]	14 [14]	13 [15]	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA
Chloroform	350	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
Chloromethane	- -	ug/L	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA
cis-1,2-Dichloroethene	620	ug/L	5	10 [10]	9 [9]	19 [20]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
cis-1,3-Dichloropropene	- -	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
Dibromochloromethane	- -	ug/L	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA
Dibromomethane	- -	ug/L	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA
Dichlorodifluoromethane	- -	ug/L	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA
Diethyl ether	- -	ug/L	<10	<10 [<10]	<10 [<10]	<10 [<10]	<10	NA	<10	NA	<10	NA	<10	NA	<10	NA	<10	NA	<10	NA
Ethylbenzene	18	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
Hexachloroethane	6.7	ug/L	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA
Iodomethane	- -	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
Isopropylbenzene	28	ug/L	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA
m&p-Xylene	- -	ug/L	<2	<2 [<2]	<2 [<2]	<2 [<2]	<2	NA	<2	NA	<2	NA	<2	NA	<2	NA	<2	NA	<2	NA
Methyl tert-butyl ether	7,100	ug/L	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA
Methylene Chloride	1,500	ug/L	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA
Naphthalene	11	ug/L	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA
n-Butylbenzene	- -	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
n-Propylbenzene	- -	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
o-Xylene	- -	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
p-Isopropyltoluene	- -	ug/L	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA
sec-Butylbenzene	- -	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
Styrene	80	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
tert-Butylbenzene	- -	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
Tetrachloroethene	60	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
Tetrahydrofuran	11,000	ug/L	<90	<90 [<90]	<90 [<90]	<90 [<90]	<90	NA	<90	NA	<90	NA	<90	NA	<90	NA	<90	NA	<90	NA
Toluene	270	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA

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Sample Name: Date Collected:	GSI	Units	Outfall 002 09/14/11	Outfall 002 10/12/11	Outfall 002 11/02/11	Outfall 002 12/13/11	Outfall 003 01/26/11	Outfall 003 01/26/11	Outfall 003 02/24/11	Outfall 003 02/25/11	Outfall 003 03/24/11	Outfall 003 03/29/11	Outfall 003 04/29/11	Outfall 003 04/26/11	Outfall 003 05/31/11	Outfall 003 05/12/11	Outfall 003 06/27/11	Outfall 003 06/28/11	Outfall 003 07/14/11	Outfall 003 07/13/11
trans-1,2-Dichloroethene	1,500	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
trans-1,3-Dichloropropene	- -	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
trans-1,4-Dichloro-2-butene	- -	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
Trichloroethene	200	ug/L	<1	2 [2]	2 [2]	4 [4]	<1	NA	<1	NA	<1	NA	1	NA	2	NA	2	NA	1	NA
Trichlorofluoromethane	- -	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
Vinyl Chloride	13	ug/L	<1	<1 [<1]	<1 [<1]	1 [1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
SVOC																				
1,2,4-Trichlorobenzene	99	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	13	ug/L	NA	<1 [<1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	- -	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	28	ug/L	NA	<1 [<1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	17	ug/L	NA	<1 [<1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	- -	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	- -	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	5	ug/L	NA	<4 [<4]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	11	ug/L	NA	<10 [<10]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	380	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	- -	ug/L	NA	<25 [<25]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	- -	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	- -	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	- -	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	18	ug/L	NA	<10 [<10]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	19	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	- -	ug/L	NA	<10 [<10]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	- -	ug/L	NA	<25 [<25]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	- -	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	- -	ug/L	NA	<20 [<20]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	0.3	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	- -	ug/L	NA	<25 [<25]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	- -	ug/L	NA	<20 [<20]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	- -	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	7.4	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	- -	ug/L	NA	<10 [<10]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	- -	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	- -	ug/L	NA	<25 [<25]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	- -	ug/L	NA	<25 [<25]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	38	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	- -	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	- -	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	- -	ug/L	NA	<1 [<1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	- -	ug/L	NA	<1 [<1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	- -	ug/L	NA	<1 [1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	- -	ug/L	NA	<1 [<1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	- -	ug/L	NA	<1 [1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	- -	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	1	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	25	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	67	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	- -	ug/L	NA	<1 [1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	- -	ug/L	NA	<2 [<2]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	4	ug/L	NA	<4 [<4]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	110	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	- -	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	9.7	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	- -	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	1.6	ug/L	NA	<1 [<1]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	12	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.2	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.053	ug/L	NA	<10 [<10]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	- -	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	6.7	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	- -	ug/L	NA	<2 [<2]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	1,300	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	11	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	180	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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N-Nitroso-di-n-propylamine	- -	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	- -	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	2.8	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	2	ug/L	NA	<2 [<2]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	450	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	- -	ug/L	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB																				
Aroclor-1016	- -	ug/L	NA	NA	NA	NA	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1
Aroclor-1221	- -	ug/L	NA	NA	NA	NA	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1
Aroclor-1232	- -	ug/L	NA	NA	NA	NA	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1
Aroclor-1242	- -	ug/L	NA	NA	NA	NA	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1
Aroclor-1248	- -	ug/L	NA	NA	NA	NA	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1
Aroclor-1254	- -	ug/L	NA	NA	NA	NA	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1
Aroclor-1260	- -	ug/L	NA	NA	NA	NA	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1
Total PCBs	0.2	ug/L	NA	NA	NA	NA	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1
Inorganic																				
Antimony	130	ug/L	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA
Arsenic	10	ug/L	7	**11 [11]**	**16 [11]**	9 [9]	3	NA	<2	NA	3	NA	<2	NA	3	NA	3	NA	7	NA
Barium	1,308	ug/L	148	317 [319]	332 [310]	307 [307]	155	NA	60	NA	83	NA	71	NA	125	NA	155	NA	221	NA
Beryllium	32.3	ug/L	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
Cadmium	4.8	ug/L	<0.5	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5	NA	<0.5	NA	0.6	NA	<0.5	NA	<0.5	NA	<0.5	NA	<0.5	NA
Chromium Total	11	ug/L	<5	**11 [12]**	<5 [<5]	<5 [<5]	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	10	NA
Cobalt	100	ug/L	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA
Copper	21.6	ug/L	16	<4 [<4]	**230 [148]**	<4 [<4]	<4	NA	7	NA	8	NA	4	NA	4	NA	<4	NA	9	NA
Cyanide (total)	5.2	ug/L	<5	<5 [<5]	**7 [8]**	**20 [<5]**	<5	NA	**10**	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA
Lead	30.9	ug/L	28	<3 [<3]	12 [4]	6 [5]	<3	NA	17	NA	28	NA	9	NA	6	NA	<3	NA	11	NA
Manganese	4,767	ug/L	467	523 [528]	779 [565]	590 [595]	253	NA	88	NA	704	NA	91	NA	197	NA	268	NA	1,450	NA
Mercury	1.3	ng/L	**6.9**	**11**	**7.5**	1.3	0.92	NA	**3.6**	NA	**4.1**	NA	**6.3**	NA	**2.5**	NA	**1.8**	NA	1.2	NA
Nickel	124.3	ug/L	<5	8 [8]	<5 [<5]	<5 [6]	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	7	NA	11	NA
Selenium	5	ug/L	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA
Silver	0.2	ug/L	<0.5	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5	NA	<0.5	NA	<0.5	NA	<0.5	NA	<0.5	NA	<0.5	NA	**0.7**	NA
Thallium	3.7	ug/L	<2	<1 [<1]	<2 [<2]	<2 [<2]	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA
Titanium	- -	ug/L	<20	<20 [<20]	<20 [<20]	NA	NA	NA	NA	NA	NA	NA	NA	NA	<20	NA	<20	NA	<20	NA
Vanadium	12	ug/L	9	<4 [<4]	<4 [<4]	<4 [<4]	<4	NA	<4	NA	<4	NA	<4	NA	<4	NA	<4	NA	4	NA
Zinc	282.7	ug/L	21	<5 [<5]	24 [<5]	<5 [<5]	29	NA	50	NA	82	NA	50	NA	32	NA	14	NA	73	NA
Miscellaneous																				
Total Suspended Solids (TSS)	- -	ug/L	914,000	16,000 [16,000]	386,000 [68,000]	13,000 [9,000]	NA	NA	15,000	NA	22,000	NA	6,000	NA	6,000	NA	4,000	NA	7,000	NA
Inorganic-Dissolved																				
Antimony (Dissolved)	130	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	10	ug/L	NA	NA	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	1,308	ug/L	NA	NA	NA	NA	NA	NA	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	32.3	ug/L	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	4.8	ug/L	NA	NA	NA	NA	NA	NA	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	11	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	100	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	21.6	ug/L	NA	NA	NA	NA	NA	NA	<4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	30.9	ug/L	NA	NA	NA	NA	NA	NA	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	4,767	ug/L	NA	NA	NA	NA	NA	NA	73	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	1.3	ng/L	NA	NA	NA	NA	NA	NA	0.91	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	124.3	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	5	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	0.2	ug/L	NA	NA	NA	NA	NA	NA	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	3.7	ug/L	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	12	ug/L	NA	NA	NA	NA	NA	NA	<4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	282.7	ug/L	NA	NA	NA	NA	NA	NA	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Sample Name: Date Collected:	GSI	Units	Outfall 003 08/15/11	Outfall 003 08/16/11	Outfall 003 09/14/11	Outfall 003 09/13/11	Outfall 003 10/12/11	Outfall 003 10/11/11	Outfall 003 11/02/11	Outfall 003 11/01/11	Outfall 003 12/13/11	Outfall 003 12/13/11	Outfall 004 01/26/11	Outfall 004 01/28/11	Outfall 005 01/26/11	Outfall 005 01/27/11	Outfall 005 02/24/11	Outfall 005 02/26/11	Outfall 005 03/24/11	Outfall 005 03/30/11	Outfall 005 04/29/11
VOC																					
1,1,1,2-Tetrachloroethane	- -	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	89	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	78	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	330	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	740	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	130	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	- -	ug/L	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	- -	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	- -	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	99	ug/L	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	17	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	- -	ug/L	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	5.7	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	13	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	360	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	230	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	45	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	28	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	17	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	2,200	ug/L	<25	NA	<25	NA	<25	NA	<25	NA	<25	NA	<30	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	- -	ug/L	<50	NA	<50	NA	<50	NA	<50	NA	<50	NA	<50	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	19	ug/L	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	- -	ug/L	<50	NA	<50	NA	<50	NA	<50	NA	<50	NA	<50	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1,700	ug/L	<50	NA	<50	NA	<50	NA	<50	NA	<50	NA	<50	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	2	ug/L	<2	NA	<2	NA	<2	NA	<2	NA	<2	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	200	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Bromobenzene	- -	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	- -	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	- -	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	- -	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	35	ug/L	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	- -	ug/L	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	45	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	25	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	1,100	ug/L	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	350	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	- -	ug/L	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	620	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	- -	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	- -	ug/L	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Dibromomethane	- -	ug/L	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	- -	ug/L	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl ether	- -	ug/L	<10	NA	<10	NA	<10	NA	<10	NA	<10	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	18	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	6.7	ug/L	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	- -	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	28	ug/L	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	- -	ug/L	<2	NA	<2	NA	<2	NA	<2	NA	<2	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	7,100	ug/L	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	1,500	ug/L	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	11	ug/L	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	- -	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	- -	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	- -	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	- -	ug/L	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	- -	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	80	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	- -	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	60	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	11,000	ug/L	<90	NA	<90	NA	<90	NA	<90	NA	<90	NA	<90	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	270	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA

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Sample Name: Date Collected:	GSI	Units	Outfall 003 08/15/11	Outfall 003 08/16/11	Outfall 003 09/14/11	Outfall 003 09/13/11	Outfall 003 10/12/11	Outfall 003 10/11/11	Outfall 003 11/02/11	Outfall 003 11/01/11	Outfall 003 12/13/11	Outfall 003 12/13/11	Outfall 004 01/26/11	Outfall 004 01/28/11	Outfall 005 01/26/11	Outfall 005 01/27/11	Outfall 005 02/24/11	Outfall 005 02/26/11	Outfall 005 03/24/11	Outfall 005 03/30/11	Outfall 005 04/29/11
trans-1,2-Dichloroethene	1,500	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	- -	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	- -	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	200	ug/L	<1	NA	<1	NA	<1	NA	1	NA	2	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	- -	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	13	ug/L	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
SVOC																					
1,2,4-Trichlorobenzene	99	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	13	ug/L	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	- -	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	28	ug/L	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	17	ug/L	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	- -	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	- -	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	5	ug/L	NA	NA	NA	NA	<4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	11	ug/L	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	380	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	- -	ug/L	NA	NA	NA	NA	<25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	- -	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	- -	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	- -	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	18	ug/L	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	19	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	- -	ug/L	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	- -	ug/L	NA	NA	NA	NA	<25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	- -	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	- -	ug/L	NA	NA	NA	NA	<20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	0.3	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	- -	ug/L	NA	NA	NA	NA	<25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	- -	ug/L	NA	NA	NA	NA	<20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	- -	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	7.4	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	- -	ug/L	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	- -	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	- -	ug/L	NA	NA	NA	NA	<25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	- -	ug/L	NA	NA	NA	NA	<25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	38	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	- -	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	- -	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	- -	ug/L	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	- -	ug/L	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	- -	ug/L	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	- -	ug/L	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	- -	ug/L	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	- -	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	1	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	25	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	67	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	- -	ug/L	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	- -	ug/L	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	4	ug/L	NA	NA	NA	NA	<4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	110	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	- -	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	9.7	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	- -	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	1.6	ug/L	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	12	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.2	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.053	ug/L	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	- -	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	6.7	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	- -	ug/L	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	1,300	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	11	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	180	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 9. NPMP Summary of 2011 Data, 2011 CMI Annual Report
RACER Trust, Buick City Site, Flint, Michigan

Sample Name: Date Collected:	GSI	Units	Outfall 003 08/15/11	Outfall 003 08/16/11	Outfall 003 09/14/11	Outfall 003 09/13/11	Outfall 003 10/12/11	Outfall 003 10/11/11	Outfall 003 11/02/11	Outfall 003 11/01/11	Outfall 003 12/13/11	Outfall 003 12/13/11	Outfall 004 01/26/11	Outfall 004 01/28/11	Outfall 005 01/26/11	Outfall 005 01/27/11	Outfall 005 02/24/11	Outfall 005 02/26/11	Outfall 005 03/24/11	Outfall 005 03/30/11	Outfall 005 04/29/11
N-Nitroso-di-n-propylamine	- -	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	- -	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	2.8	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	2	ug/L	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	450	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	- -	ug/L	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PCB																					
Aroclor-1016	- -	ug/L	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA
Aroclor-1221	- -	ug/L	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA
Aroclor-1232	- -	ug/L	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA
Aroclor-1242	- -	ug/L	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA
Aroclor-1248	- -	ug/L	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA
Aroclor-1254	- -	ug/L	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA
Aroclor-1260	- -	ug/L	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA
Total PCBs	0.2	ug/L	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA
Inorganic																					
Antimony	130	ug/L	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5 [<5]	NA	<5	NA	<5	NA	<5
Arsenic	10	ug/L	5	NA	7	NA	4	NA	4	NA	8	NA	5	NA	**19 [123]**	NA	8	NA	6	NA	5
Barium	1,308	ug/L	151	NA	278	NA	164	NA	173	NA	186	NA	140	NA	123 [267]	NA	92	NA	71	NA	58
Beryllium	32.3	ug/L	<1	NA	1.7	NA	<1	NA	<1	NA	<1	NA	<1	NA	<1 [<1]	NA	<1	NA	<1	NA	<1
Cadmium	4.8	ug/L	<0.5	NA	<0.5	NA	<0.5	NA	<0.5	NA	0.5	NA	1.6	NA	<0.5 [0.6]	NA	<0.5	NA	<0.5	NA	<0.5
Chromium Total	11	ug/L	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	**18**	NA	<5 [<5]	NA	<5	NA	<5	NA	<5
Cobalt	100	ug/L	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5 [<5]	NA	<5	NA	<5	NA	<5
Copper	21.6	ug/L	8	NA	<4	NA	<4	NA	<4	NA	8	NA	**45**	NA	<4 [7]	NA	<4	NA	<4	NA	5
Cyanide (total)	5.2	ug/L	<5	NA	<5	NA	<5	NA	**7**	NA	**10**	NA	<5	NA	<5 [<5]	NA	<5	NA	<5	NA	<5
Lead	30.9	ug/L	26	NA	**34**	NA	<3	NA	9	NA	20	NA	**109**	NA	<3 [7]	NA	11	NA	18	NA	6
Manganese	4,767	ug/L	852	NA	436	NA	229	NA	224	NA	686	NA	1,070	NA	229 [744]	NA	165	NA	145	NA	127
Mercury	1.3	ng/L	**3.3**	NA	**8.3**	NA	**2.5**	NA	**17**	NA	**1.7**	NA	**92**	NA	0.52 [<0.51]	NA	0.76	NA	**1.8**	NA	**8.1**
Nickel	124.3	ug/L	7	NA	15	NA	11	NA	8	NA	10	NA	11	NA	<5 [<5]	NA	<5	NA	<5	NA	6
Selenium	5	ug/L	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5 [<5]	NA	<5	NA	<5	NA	<5
Silver	0.2	ug/L	<0.5	NA	<0.5	NA	<0.5	NA	<0.5	NA	<0.5	NA	<0.5	NA	<0.5 [<0.5]	NA	<0.5	NA	<0.5	NA	**0.8**
Thallium	3.7	ug/L	<1	NA	<2	NA	<1	NA	<2	NA	<2	NA	<1	NA	<1 [<1]	NA	<1	NA	<1	NA	<1
Titanium	- -	ug/L	<20	NA	<20	NA	<20	NA	<20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	12	ug/L	<4	NA	<4	NA	<4	NA	<4	NA	<4	NA	10	NA	<4 [<4]	NA	<4	NA	<4	NA	<4
Zinc	282.7	ug/L	44	NA	14	NA	11	NA	9	NA	50	NA	**486**	NA	23 [196]	NA	<5	NA	12	NA	23
Miscellaneous																					
Total Suspended Solids (TSS)	- -	ug/L	39,000	NA	5,000	NA	3,000	NA	29,000	NA	18,000	NA	NA	NA	NA	NA	6,000	NA	1,000	NA	12,000
Inorganic-Dissolved																					
Antimony (Dissolved)	130	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA
Arsenic (Dissolved)	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5	NA	NA	NA	NA
Barium (Dissolved)	1,308	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	88	NA	NA	NA	NA
Beryllium (Dissolved)	32.3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Cadmium (Dissolved)	4.8	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.5	NA	NA	NA	NA
Chromium Total (Dissolved)	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA
Cobalt (Dissolved)	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA
Copper (Dissolved)	21.6	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4	NA	NA	NA	NA
Lead (Dissolved)	30.9	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	NA	NA	NA	NA
Manganese (Dissolved)	4,767	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	157	NA	NA	NA	NA
Mercury (Dissolved)	1.3	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.51	NA	NA	NA	NA
Nickel (Dissolved)	124.3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA
Selenium (Dissolved)	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA
Silver (Dissolved)	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.5	NA	NA	NA	NA
Thallium (Dissolved)	3.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA
Vanadium (Dissolved)	12	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4	NA	NA	NA	NA
Zinc (Dissolved)	282.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA

Table 9. NPMP Summary of 2011 Data, 2011 CMI Annual Report
RACER Trust, Buick City Site, Flint, Michigan

Sample Name: Date Collected:	GSI	Units	Outfall 005 04/29/11	Outfall 005 05/31/11	Outfall 005 05/18/11	Outfall 005 06/27/11	Outfall 005 06/27/11	Outfall 005 07/14/11	Outfall 005 07/22/11	Outfall 005 08/15/11	Outfall 005 08/18/11	Outfall 005 09/14/11	Outfall 005 09/14/11	Outfall 005 10/12/11	Outfall 005 10/13/11	Outfall 005 11/02/11	Outfall 005 11/02/11	Outfall 005 12/13/11	Outfall 005 12/21/11	Outfall 006 01/26/11	Outfall 006 02/24/11	Outfall 006 03/24/11
VOC																						
1,1,1,2-Tetrachloroethane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
1,1,1-Trichloroethane	89	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
1,1,2,2-Tetrachloroethane	78	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
1,1,2-Trichloroethane	330	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
1,1-Dichloroethane	740	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
1,1-Dichloroethene	130	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
1,2,3-Trichlorobenzene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5
1,2,3-Trichloropropane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
1,2,3-Trimethylbenzene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
1,2,4-Trichlorobenzene	99	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5
1,2,4-Trimethylbenzene	17	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
1,2-Dibromo-3-chloropropane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5
1,2-Dibromoethane	5.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
1,2-Dichlorobenzene	13	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
1,2-Dichloroethane	360	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
1,2-Dichloropropane	230	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
1,3,5-Trimethylbenzene	45	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
1,3-Dichlorobenzene	28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
1,4-Dichlorobenzene	17	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
2-Butanone	2,200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<30	<25	<25
2-Hexanone	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<50	<50
2-Methylnaphthalene	19	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5
4-Methyl-2-pentanone	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<50	<50
Acetone	1,700	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<50	<50	<50
Acrylonitrile	2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2	<2	<2
Benzene	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
Bromobenzene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
Bromochloromethane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
Bromodichloromethane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
Bromoform	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
Bromomethane	35	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5
Carbon Disulfide	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5
Carbon Tetrachloride	45	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
Chlorobenzene	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
Chloroethane	1,100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5
Chloroform	350	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
Chloromethane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5
cis-1,2-Dichloroethene	620	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
cis-1,3-Dichloropropene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
Dibromochloromethane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5
Dibromomethane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5
Dichlorodifluoromethane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5
Diethyl ether	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<10	<10	<10
Ethylbenzene	18	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
Hexachloroethane	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5
Iodomethane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
Isopropylbenzene	28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5
m&p-Xylene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2	<2	<2
Methyl tert-butyl ether	7,100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5
Methylene Chloride	1,500	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5
Naphthalene	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5
n-Butylbenzene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
n-Propylbenzene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
o-Xylene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
p-Isopropyltoluene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	<5	<5
sec-Butylbenzene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
Styrene	80	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
tert-Butylbenzene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
Tetrachloroethene	60	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
Tetrahydrofuran	11,000	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<90	<90	<90
Toluene	270	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1

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Sample Name: Date Collected:	GSI	Units	Outfall 005 04/29/11	Outfall 005 05/31/11	Outfall 005 05/18/11	Outfall 005 06/27/11	Outfall 005 06/27/11	Outfall 005 07/14/11	Outfall 005 07/22/11	Outfall 005 08/15/11	Outfall 005 08/18/11	Outfall 005 09/14/11	Outfall 005 09/14/11	Outfall 005 10/12/11	Outfall 005 10/13/11	Outfall 005 11/02/11	Outfall 005 11/02/11	Outfall 005 12/13/11	Outfall 005 12/21/11	Outfall 006 01/26/11	Outfall 006 02/24/11	Outfall 006 03/24/11
trans-1,2-Dichloroethene	1,500	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
trans-1,3-Dichloropropene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
trans-1,4-Dichloro-2-butene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
Trichloroethene	200	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
Trichlorofluoromethane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
Vinyl Chloride	13	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	<1	<1
SVOC																						
1,2,4-Trichlorobenzene	99	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	13	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	17	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	380	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<25	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	18	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	19	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<25	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<20	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	0.3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<25	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<20	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	7.4	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<25	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<25	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	38	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	67	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	4	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	110	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	9.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	1.6	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	12	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.053	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	1,300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	180	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA

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Sample Name: Date Collected:	GSI	Units	Outfall 005 04/29/11	Outfall 005 05/31/11	Outfall 005 05/18/11	Outfall 005 06/27/11	Outfall 005 06/27/11	Outfall 005 07/14/11	Outfall 005 07/22/11	Outfall 005 08/15/11	Outfall 005 08/18/11	Outfall 005 09/14/11	Outfall 005 09/14/11	Outfall 005 10/12/11	Outfall 005 10/13/11	Outfall 005 11/02/11	Outfall 005 11/02/11	Outfall 005 12/13/11	Outfall 005 12/21/11	Outfall 006 01/26/11	Outfall 006 02/24/11	Outfall 006 03/24/11
N-Nitroso-di-n-propylamine	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	2.8	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	450	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
PCB																						
Aroclor-1016	- -	ug/L	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	NA	NA
Aroclor-1221	- -	ug/L	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	NA	NA
Aroclor-1232	- -	ug/L	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	NA	NA
Aroclor-1242	- -	ug/L	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	NA	NA
Aroclor-1248	- -	ug/L	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	NA	NA
Aroclor-1254	- -	ug/L	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	NA	NA
Aroclor-1260	- -	ug/L	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	NA	NA
Total PCBs	0.2	ug/L	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	<0.1	NA	NA	NA
Inorganic																						
Antimony	130	ug/L	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	<5	<5
Arsenic	10	ug/L	NA	8	NA	9	NA	**11**	NA	9	NA	**79**	NA	**131**	NA	**17**	NA	**13**	NA	<2	<2	<2
Barium	1,308	ug/L	NA	73	NA	78	NA	88	NA	86	NA	256	NA	170	NA	93	NA	102	NA	74	68	56
Beryllium	32.3	ug/L	NA	<1	NA	<1	NA	<1	NA	<1	NA	1.6	NA	<1	NA	<1	NA	<1	NA	<1	<1	<1
Cadmium	4.8	ug/L	NA	<0.5	NA	<0.5	NA	<0.5	NA	<0.5	NA	2.2	NA	<0.5	NA	<0.5	NA	<0.5	NA	<0.5	<0.5	<0.5
Chromium Total	11	ug/L	NA	<5	NA	<5	NA	9	NA	<5	NA	7	NA	<5	NA	<5	NA	<5	NA	<5	<5	<5
Cobalt	100	ug/L	NA	<5	NA	<5	NA	<5	NA	<5	NA	7	NA	<5	NA	<5	NA	<5	NA	<5	<5	<5
Copper	21.6	ug/L	NA	4	NA	<4	NA	4	NA	<4	NA	**51**	NA	9	NA	<4	NA	<4	NA	<4	<4	7
Cyanide (total)	5.2	ug/L	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	<5	<5
Lead	30.9	ug/L	NA	4	NA	<3	NA	6	NA	17	NA	**377**	NA	30	NA	8	NA	**191**	NA	<3	<3	<3
Manganese	4,767	ug/L	NA	195	NA	189	NA	201	NA	123	NA	2,950	NA	547	NA	131	NA	226	NA	249	373	176
Mercury	1.3	ng/L	NA	**4.4**	NA	**8.1**	NA	**37**	NA	**2.9**	NA	1.3	NA	<0.50	NA	**3.7**	NA	**8.7**	NA	0.61	**1.7**	**1.7**
Nickel	124.3	ug/L	NA	5	NA	<5	NA	8	NA	<5	NA	103	NA	6	NA	<5	NA	<5	NA	<5	<5	<5
Selenium	5	ug/L	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	NA	<5	<5	<5
Silver	0.2	ug/L	NA	<0.5	NA	<0.5	NA	<0.5	NA	<0.5	NA	<0.5	NA	<0.5	NA	<0.5	NA	<0.5	NA	<0.5	<0.5	<0.5
Thallium	3.7	ug/L	NA	<1	NA	<1	NA	<1	NA	<1	NA	<2	NA	<1	NA	<2	NA	<2	NA	<1	<1	<1
Titanium	- -	ug/L	NA	<20	NA	<20	NA	<20	NA	<20	NA	20	NA	<20	NA	<20	NA	NA	NA	NA	NA	NA
Vanadium	12	ug/L	NA	<4	NA	<4	NA	<4	NA	<4	NA	4	NA	4	NA	<4	NA	<4	NA	<4	<4	<4
Zinc	282.7	ug/L	NA	9	NA	5	NA	22	NA	6	NA	**668**	NA	58	NA	6	NA	16	NA	<5	<5	7
Miscellaneous																						
Total Suspended Solids (TSS)	- -	ug/L	NA	7,000	NA	5,000	NA	4,000	NA	6,000	NA	11,000	NA	8,000	NA	13,000	NA	59,000	NA	NA	1,000	2,000
Inorganic-Dissolved																						
Antimony (Dissolved)	130	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA
Arsenic (Dissolved)	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA
Barium (Dissolved)	1,308	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	65	NA
Beryllium (Dissolved)	32.3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA
Cadmium (Dissolved)	4.8	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.5	NA
Chromium Total (Dissolved)	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA
Cobalt (Dissolved)	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA
Copper (Dissolved)	21.6	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4	NA
Lead (Dissolved)	30.9	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	NA
Manganese (Dissolved)	4,767	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	262	NA
Mercury (Dissolved)	1.3	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.60	NA
Nickel (Dissolved)	124.3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA
Selenium (Dissolved)	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA
Silver (Dissolved)	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.5	NA
Thallium (Dissolved)	3.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA
Vanadium (Dissolved)	12	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4	NA
Zinc (Dissolved)	282.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA

Table 9. NPMP Summary of 2011 Data, 2011 CMI Annual Report
RACER Trust, Buick City Site, Flint, Michigan

Sample Name: / Date Collected:	GSI	Units	Outfall 006 04/29/11	Outfall 006 05/31/11	Outfall 006 06/27/11	Outfall 006 07/14/11	Outfall 006 08/15/11	Outfall 006 09/14/11	Outfall 006 10/12/11	Outfall 006 11/02/11	Outfall 006 12/13/11	Outfall 007 02/24/11	Outfall 007 04/29/11	Outfall 007 05/31/11	Outfall 007 06/27/11	Outfall 007 07/14/11	Outfall 007 08/15/11	Outfall 007 10/12/11	Outfall 007 11/02/11	Outfall 007 12/13/11	Outfall 009 01/26/11
VOC																					
1,1,1,2-Tetrachloroethane	- -	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,1-Trichloroethane	89	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2,2-Tetrachloroethane	78	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1,2-Trichloroethane	330	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,1-Dichloroethane	740	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	4	5	<1	2	<1	<1	<1	<1
1,1-Dichloroethene	130	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trichlorobenzene	- -	ug/L	<5 [<5]	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2,3-Trichloropropane	- -	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,3-Trimethylbenzene	- -	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2,4-Trichlorobenzene	99	ug/L	<5 [<5]	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2,4-Trimethylbenzene	17	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dibromo-3-chloropropane	- -	ug/L	<5 [<5]	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
1,2-Dibromoethane	5.7	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichlorobenzene	13	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloroethane	360	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,2-Dichloropropane	230	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3,5-Trimethylbenzene	45	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,3-Dichlorobenzene	28	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1,4-Dichlorobenzene	17	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
2-Butanone	2,200	ug/L	<25 [<25]	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<30
2-Hexanone	- -	ug/L	<50 [<50]	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
2-Methylnaphthalene	19	ug/L	<5 [<5]	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
4-Methyl-2-pentanone	- -	ug/L	<50 [<50]	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Acetone	1,700	ug/L	<50 [<50]	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Acrylonitrile	2	ug/L	<2 [<2]	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Benzene	200	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromobenzene	- -	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromochloromethane	- -	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromodichloromethane	- -	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	- -	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromomethane	35	ug/L	<5 [<5]	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Carbon Disulfide	- -	ug/L	<5 [<5]	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Carbon Tetrachloride	45	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chlorobenzene	25	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloroethane	1,100	ug/L	<5 [<5]	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Chloroform	350	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chloromethane	- -	ug/L	<5 [<5]	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
cis-1,2-Dichloroethene	620	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	3	<1	1	<1	<1	<1	16
cis-1,3-Dichloropropene	- -	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Dibromochloromethane	- -	ug/L	<5 [<5]	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Dibromomethane	- -	ug/L	<5 [<5]	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Dichlorodifluoromethane	- -	ug/L	<5 [<5]	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Diethyl ether	- -	ug/L	<10 [<10]	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ethylbenzene	18	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Hexachloroethane	6.7	ug/L	<5 [<5]	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Iodomethane	- -	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Isopropylbenzene	28	ug/L	<5 [<5]	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
m&p-Xylene	- -	ug/L	<2 [<2]	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Methyl tert-butyl ether	7,100	ug/L	<5 [<5]	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Methylene Chloride	1,500	ug/L	<5 [<5]	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Naphthalene	11	ug/L	<5 [<5]	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
n-Butylbenzene	- -	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
n-Propylbenzene	- -	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
o-Xylene	- -	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
p-Isopropyltoluene	- -	ug/L	<5 [<5]	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
sec-Butylbenzene	- -	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Styrene	80	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
tert-Butylbenzene	- -	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrachloroethene	60	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Tetrahydrofuran	11,000	ug/L	<90 [<90]	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90
Toluene	270	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

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RACER Trust, Buick City Site, Flint, Michigan

Sample Name: Date Collected:	GSI	Units	Outfall 006 04/29/11	Outfall 006 05/31/11	Outfall 006 06/27/11	Outfall 006 07/14/11	Outfall 006 08/15/11	Outfall 006 09/14/11	Outfall 006 10/12/11	Outfall 006 11/02/11	Outfall 006 12/13/11	Outfall 007 02/24/11	Outfall 007 04/29/11	Outfall 007 05/31/11	Outfall 007 06/27/11	Outfall 007 07/14/11	Outfall 007 08/15/11	Outfall 007 10/12/11	Outfall 007 11/02/11	Outfall 007 12/13/11	Outfall 009 01/26/11
trans-1,2-Dichloroethene	1,500	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,3-Dichloropropene	- -	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
trans-1,4-Dichloro-2-butene	- -	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Trichloroethene	200	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	7	1	2	1	<1	1	<1	<1	<1	7
Trichlorofluoromethane	- -	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Vinyl Chloride	13	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
SVOC																					
1,2,4-Trichlorobenzene	99	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
1,2-Dichlorobenzene	13	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA
1,2-Diphenylhydrazine	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
1,3-Dichlorobenzene	28	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA
1,4-Dichlorobenzene	17	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
2,4,5-Trichlorophenol	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
2,4,6-Trichlorophenol	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4	NA	NA	NA
2,4-Dichlorophenol	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA
2,4-Dimethylphenol	380	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
2,4-Dinitrophenol	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<25	NA	NA	NA
2,4-Dinitrotoluene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
2,6-Dinitrotoluene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
2-Chloronaphthalene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
2-Chlorophenol	18	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA
2-Methylnaphthalene	19	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
2-Methylphenol	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA
2-Nitroaniline	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<25	NA	NA	NA
2-Nitrophenol	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
3&4-Methylphenol	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<20	NA	NA	NA
3,3'-Dichlorobenzidine	0.3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
3-Nitroaniline	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<25	NA	NA	NA
4,6-Dinitro-2-methylphenol	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<20	NA	NA	NA
4-Bromophenyl-phenylether	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
4-Chloro-3-Methylphenol	7.4	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
4-Chloroaniline	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA
4-Chlorophenyl-phenylether	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
4-Nitroaniline	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<25	NA	NA	NA
4-Nitrophenol	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<25	NA	NA	NA
Acenaphthene	38	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
Acenaphthylene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
Anthracene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
Benzo(a)anthracene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA
Benzo(a)pyrene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA
Benzo(b)fluoranthene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA
Benzo(g,h,i)perylene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA
Benzo(k)fluoranthene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA
bis(2-Chloroethoxy)methane	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
bis(2-Chloroethyl)ether	1	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
bis(2-Ethylhexyl)phthalate	25	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
Butylbenzylphthalate	67	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
Chrysene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA
Dibenzo(a,h)anthracene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA	NA	NA
Dibenzofuran	4	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4	NA	NA	NA
Diethylphthalate	110	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
Dimethylphthalate	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
Di-n-Butylphthalate	9.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
Di-n-Octylphthalate	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
Fluoranthene	1.6	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA
Fluorene	12	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
Hexachlorobenzene	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
Hexachlorobutadiene	0.053	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA
Hexachlorocyclopentadiene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
Hexachloroethane	6.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
Indeno(1,2,3-cd)pyrene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA	NA	NA
Isophorone	1,300	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
Naphthalene	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
Nitrobenzene	180	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA

Table 9. NPMP Summary of 2011 Data, 2011 CMI Annual Report
RACER Trust, Buick City Site, Flint, Michigan

Sample Name: Date Collected:	GSI	Units	Outfall 006 04/29/11	Outfall 006 05/31/11	Outfall 006 06/27/11	Outfall 006 07/14/11	Outfall 006 08/15/11	Outfall 006 09/14/11	Outfall 006 10/12/11	Outfall 006 11/02/11	Outfall 006 12/13/11	Outfall 007 02/24/11	Outfall 007 04/29/11	Outfall 007 05/31/11	Outfall 007 06/27/11	Outfall 007 07/14/11	Outfall 007 08/15/11	Outfall 007 10/12/11	Outfall 007 11/02/11	Outfall 007 12/13/11	Outfall 009 01/26/11
N-Nitroso-di-n-propylamine	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
N-Nitrosodiphenylamine	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
Pentachlorophenol	2.8	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
Phenanthrene	2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA	NA	NA
Phenol	450	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
Pyrene	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA
PCB																					
Aroclor-1016	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																					
Antimony	130	ug/L	<5 [<5]	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Arsenic	10	ug/L	<2 [<2]	2	2	2	3	3	3	2	2	<2	5	2	3	3	3	2	3	7	**19**
Barium	1,308	ug/L	52 [49]	65	72	91	86	82	79	80	93	58	30	52	59	77	69	76	82	87	698
Beryllium	32.3	ug/L	<1 [<1]	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	4.8	ug/L	<0.5 [<0.5]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	**8.1**
Chromium Total	11	ug/L	<5 [<5]	<5	<5	10	<5	<5	<5	<5	<5	<5	<5	<5	<5	7	<5	<5	<5	<5	**50**
Cobalt	100	ug/L	<5 [<5]	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	8
Copper	21.6	ug/L	<4 [<4]	<4	<4	12	<4	<4	<4	<4	<4	<4	<4	<4	<4	5	<4	<4	5	10	**62**
Cyanide (total)	5.2	ug/L	<5 [<5]	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Lead	30.9	ug/L	<3 [<3]	<3	<3	13	<3	3	<3	<3	4	<3	<3	<3	4	5	6	<3	6	18	**265**
Manganese	4,767	ug/L	234 [117]	235	242	288	209	97	162	202	515	13	23	25	17	41	20	28	86	394	2,140
Mercury	1.3	ng/L	**3.7 [3.2]**	**1.8**	**1.5**	**200**	**2.3**	1.1	0.80	1.0	**2.7**	**3.1**	**5.7**	**2.9**	1.0	**16**	**42**	**28**	**3.3**	**4.2**	**2.9**
Nickel	124.3	ug/L	<5 [<5]	<5	<5	6	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	23
Selenium	5	ug/L	<5 [<5]	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Silver	0.2	ug/L	<0.5 [<0.5]	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	3.7	ug/L	<1 [<1]	<1	<1	<1	1	<2	<1	<2	<2	<1	<1	<1	<1	<1	<1	<1	<2	<2	<1
Titanium	- -	ug/L	NA	<20	<20	<20	<20	<20	<20	<20	NA	NA	NA	<20	<20	<20	<20	<20	<20	NA	NA
Vanadium	12	ug/L	<4 [<4]	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	**19**
Zinc	282.7	ug/L	21 [21]	7	<5	57	18	<5	<5	<5	9	<5	12	8	21	25	33	12	43	88	**1,140**
Miscellaneous																					
Total Suspended Solids (TSS)	- -	ug/L	<1,000 [5,000]	5,000	1,000	71,000	4,000	1,000	3,000	4,000	3,000	<1,000	6,000	26,000	330,000	26,000	12,000	10,000	46,000	31,000	NA
Inorganic-Dissolved																					
Antimony (Dissolved)	130	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	1,308	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	55	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	32.3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	4.8	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	21.6	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	30.9	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	4,767	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	1.3	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	**1.4**	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	124.3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	3.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	12	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	282.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 9. NPMP Summary of 2011 Data, 2011 CMI Annual Report
RACER Trust, Buick City Site, Flint, Michigan

Sample Name: Date Collected:	GSI	Units	Outfall 009 02/24/11	Outfall 009 03/24/11	Outfall 009 06/27/11	Outfall 009 07/14/11	Outfall 009 08/15/11	Outfall 009 09/14/11	Outfall 009 10/12/11	Outfall 009 11/02/11	Outfall 009 12/13/11	Outfall 010 01/26/11	Outfall 010 02/24/11	Outfall 010 03/24/11	Outfall 010 04/29/11	Outfall 010 05/31/11	Outfall 010 06/27/11	Outfall 010 07/14/11	Outfall 010 08/15/11	Outfall 010 09/14/11	Outfall 010 10/12/11
VOC																					
1,1,1,2-Tetrachloroethane	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
1,1,1-Trichloroethane	89	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
1,1,2,2-Tetrachloroethane	78	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
1,1,2-Trichloroethane	330	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
1,1-Dichloroethane	740	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
1,1-Dichloroethene	130	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
1,2,3-Trichlorobenzene	- -	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	<5 [<5]	<5
1,2,3-Trichloropropane	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
1,2,3-Trimethylbenzene	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
1,2,4-Trichlorobenzene	99	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	<5 [<5]	<5
1,2,4-Trimethylbenzene	17	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
1,2-Dibromo-3-chloropropane	- -	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	<5 [<5]	<5
1,2-Dibromoethane	5.7	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
1,2-Dichlorobenzene	13	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
1,2-Dichloroethane	360	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
1,2-Dichloropropane	230	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
1,3,5-Trimethylbenzene	45	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
1,3-Dichlorobenzene	28	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
1,4-Dichlorobenzene	17	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
2-Butanone	2,200	ug/L	<25	<25	<25	<25	<25	<25	<25	<25	<25	<30	<25 [<25]	<25	<25	<25 [<25]	<25 [<25]	<25 [<25]	<25	<25 [<25]	<25
2-Hexanone	- -	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50 [<50]	<50	<50	<50 [<50]	<50 [<50]	<50 [<50]	<50	<50 [<50]	<50
2-Methylnaphthalene	19	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	<5 [<5]	<5
4-Methyl-2-pentanone	- -	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50 [<50]	<50	<50	<50 [<50]	<50 [<50]	<50 [<50]	<50	<50 [<50]	<50
Acetone	1,700	ug/L	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50 [<50]	<50	<50	<50 [<50]	<50 [<50]	<50 [<50]	<50	<50 [<50]	<50
Acrylonitrile	2	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2 [<2]	<2	<2	<2 [<2]	<2 [<2]	<2 [<2]	<2	<2 [<2]	<2
Benzene	200	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
Bromobenzene	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
Bromochloromethane	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
Bromodichloromethane	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
Bromoform	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
Bromomethane	35	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	<5 [<5]	<5
Carbon Disulfide	- -	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	<5 [<5]	<5
Carbon Tetrachloride	45	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
Chlorobenzene	25	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
Chloroethane	1,100	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	<5 [<5]	<5
Chloroform	350	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
Chloromethane	- -	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	<5 [<5]	<5
cis-1,2-Dichloroethene	620	ug/L	12	11	14	15	8	10	11	11	10	<1	1 [1]	2	1	2 [1]	2 [2]	1 [2]	2	1 [9]	1
cis-1,3-Dichloropropene	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
Dibromochloromethane	- -	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	<5 [<5]	<5
Dibromomethane	- -	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	<5 [<5]	<5
Dichlorodifluoromethane	- -	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	<5 [<5]	<5
Diethyl ether	- -	ug/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10 [<10]	<10	<10	<10 [<10]	<10 [<10]	<10 [<10]	<10	<10 [<10]	<10
Ethylbenzene	18	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
Hexachloroethane	6.7	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	<5 [<5]	<5
Iodomethane	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
Isopropylbenzene	28	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	<5 [<5]	<5
m&p-Xylene	- -	ug/L	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2 [<2]	<2	<2	<2 [<2]	<2 [<2]	<2 [<2]	<2	<2 [<2]	<2
Methyl tert-butyl ether	7,100	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	<5 [<5]	<5
Methylene Chloride	1,500	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	<5 [<5]	<5
Naphthalene	11	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	<5 [<5]	<5
n-Butylbenzene	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
n-Propylbenzene	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
o-Xylene	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
p-Isopropyltoluene	- -	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	<5 [<5]	<5
sec-Butylbenzene	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
Styrene	80	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
tert-Butylbenzene	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
Tetrachloroethene	60	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
Tetrahydrofuran	11,000	ug/L	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90	<90 [<90]	<90	<90	<90 [<90]	<90 [<90]	<90 [<90]	<90	<90 [<90]	<90
Toluene	270	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1

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RACER Trust, Buick City Site, Flint, Michigan

Sample Name: Date Collected:	GSI	Units	Outfall 009 02/24/11	Outfall 009 03/24/11	Outfall 009 06/27/11	Outfall 009 07/14/11	Outfall 009 08/15/11	Outfall 009 09/14/11	Outfall 009 10/12/11	Outfall 009 11/02/11	Outfall 009 12/13/11	Outfall 010 01/26/11	Outfall 010 02/24/11	Outfall 010 03/24/11	Outfall 010 04/29/11	Outfall 010 05/31/11	Outfall 010 06/27/11	Outfall 010 07/14/11	Outfall 010 08/15/11	Outfall 010 09/14/11	Outfall 010 10/12/11
trans-1,2-Dichloroethene	1,500	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
trans-1,3-Dichloropropene	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
trans-1,4-Dichloro-2-butene	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
Trichloroethene	200	ug/L	6	8	7	6	3	3	3	4	5	<1	<1 [<1]	<1	1	1 [1]	<1 [<1]	<1 [<1]	<1	<1 [3]	<1
Trichlorofluoromethane	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
Vinyl Chloride	13	ug/L	1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
SVOC																					
1,2,4-Trichlorobenzene	99	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
1,2-Dichlorobenzene	13	ug/L	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
1,2-Diphenylhydrazine	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
1,3-Dichlorobenzene	28	ug/L	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
1,4-Dichlorobenzene	17	ug/L	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
2,2'-Oxybis(1-Chloropropane)	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
2,4,5-Trichlorophenol	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
2,4,6-Trichlorophenol	5	ug/L	NA	NA	NA	NA	NA	NA	<4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4
2,4-Dichlorophenol	11	ug/L	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<10
2,4-Dimethylphenol	380	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
2,4-Dinitrophenol	- -	ug/L	NA	NA	NA	NA	NA	NA	<25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<25
2,4-Dinitrotoluene	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
2,6-Dinitrotoluene	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
2-Chloronaphthalene	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
2-Chlorophenol	18	ug/L	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<10
2-Methylnaphthalene	19	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
2-Methylphenol	- -	ug/L	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<10
2-Nitroaniline	- -	ug/L	NA	NA	NA	NA	NA	NA	<25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<25
2-Nitrophenol	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
3&4-Methylphenol	- -	ug/L	NA	NA	NA	NA	NA	NA	<20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<20
3,3'-Dichlorobenzidine	0.3	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
3-Nitroaniline	- -	ug/L	NA	NA	NA	NA	NA	NA	<25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<25
4,6-Dinitro-2-methylphenol	- -	ug/L	NA	NA	NA	NA	NA	NA	<20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<20
4-Bromophenyl-phenylether	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
4-Chloro-3-Methylphenol	7.4	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
4-Chloroaniline	- -	ug/L	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<10
4-Chlorophenyl-phenylether	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
4-Nitroaniline	- -	ug/L	NA	NA	NA	NA	NA	NA	<25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<25
4-Nitrophenol	- -	ug/L	NA	NA	NA	NA	NA	NA	<25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<25
Acenaphthene	38	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
Acenaphthylene	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
Anthracene	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
Benzo(a)anthracene	- -	ug/L	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Benzo(a)pyrene	- -	ug/L	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Benzo(b)fluoranthene	- -	ug/L	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Benzo(g,h,i)perylene	- -	ug/L	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Benzo(k)fluoranthene	- -	ug/L	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
bis(2-Chloroethoxy)methane	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
bis(2-Chloroethyl)ether	1	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
bis(2-Ethylhexyl)phthalate	25	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
Butylbenzylphthalate	67	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
Chrysene	- -	ug/L	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Dibenzo(a,h)anthracene	- -	ug/L	NA	NA	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2
Dibenzofuran	4	ug/L	NA	NA	NA	NA	NA	NA	<4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4
Diethylphthalate	110	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
Dimethylphthalate	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
Di-n-Butylphthalate	9.7	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
Di-n-Octylphthalate	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
Fluoranthene	1.6	ug/L	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1
Fluorene	12	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
Hexachlorobenzene	0.2	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
Hexachlorobutadiene	0.053	ug/L	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<10
Hexachlorocyclopentadiene	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
Hexachloroethane	6.7	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
Indeno(1,2,3-cd)pyrene	- -	ug/L	NA	NA	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2
Isophorone	1,300	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
Naphthalene	11	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
Nitrobenzene	180	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5

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Sample Name: Date Collected:	GSI	Units	Outfall 009 02/24/11	Outfall 009 03/24/11	Outfall 009 06/27/11	Outfall 009 07/14/11	Outfall 009 08/15/11	Outfall 009 09/14/11	Outfall 009 10/12/11	Outfall 009 11/02/11	Outfall 009 12/13/11	Outfall 010 01/26/11	Outfall 010 02/24/11	Outfall 010 03/24/11	Outfall 010 04/29/11	Outfall 010 05/31/11	Outfall 010 06/27/11	Outfall 010 07/14/11	Outfall 010 08/15/11	Outfall 010 09/14/11	Outfall 010 10/12/11
N-Nitroso-di-n-propylamine	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
N-Nitrosodiphenylamine	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
Pentachlorophenol	2.8	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
Phenanthrene	2	ug/L	NA	NA	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2
Phenol	450	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
Pyrene	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5
PCB																					
Aroclor-1016	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																					
Antimony	130	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	<5 [<5]	<5
Arsenic	10	ug/L	3	<2	5	**14**	3	2	2	2	**12**	2	<2 [<2]	<2	2	<2 [<2]	3 [2]	4 [<2]	3	2 [4]	2
Barium	1,308	ug/L	207	93	140	331	271	207	159	118	654	101	102 [101]	85	77	82 [85]	99 [95]	247 [101]	110	113 [259]	108
Beryllium	32.3	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<1 [<1]	<1
Cadmium	4.8	ug/L	<0.5	<0.5	0.8	1.7	<0.5	<0.5	<0.5	<0.5	**13.1**	<0.5	<0.5 [<0.5]	<0.5	<0.5	<0.5 [<0.5]	0.6 [<0.5]	2.4 [<0.5]	<0.5	<0.5 [0.7]	<0.5
Chromium Total	11	ug/L	<5	<5	<5	**16**	<5	<5	6	<5	**51**	<5	<5 [<5]	<5	5	<5 [<5]	<5 [<5]	**36 [7]**	<5	<5 [<5]	5
Cobalt	100	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	9	<5	<5 [<5]	<5	<5	<5 [<5]	<5 [<5]	5 [<5]	<5	<5 [<5]	<5
Copper	21.6	ug/L	<4	<4	5	10	<4	<4	<4	<4	**150**	<4	<4 [<4]	<4	<4	<4 [<4]	<4 [<4]	**132 [<4]**	<4	<4 [13]	<4
Cyanide (total)	5.2	ug/L	<5	<5	<5	<5	<5	<5	<5	**11**	<5	<5	**10 [8]**	<5	**10**	<5 [<5]	<5 [<5]	<5 [<5]	**9**	<5 [<5]	**10**
Lead	30.9	ug/L	<3	7	11	22	7	3	<3	<3	**476**	<3	<3 [<3]	4	3	<3 [<3]	7 [<3]	**196 [<3]**	4	**3 [36]**	<3
Manganese	4,767	ug/L	757	198	2,030	**6,980**	1,440	450	177	97	2,130	57	54 [53]	78	117	84 [83]	317 [159]	2,550 [68]	337	30 [1,110]	28
Mercury	1.3	ng/L	1.3	**1.8**	**36**	**750**	**3.0**	**3.6**	**450**	**1.6**	**7.7**	0.73	0.90 [0.99]	**1.4**	**100**	**6.9 [1.4]**	**2.0 [1.2]**	**7.8 [1.4]**	**600**	**1.4**	0.80
Nickel	124.3	ug/L	<5	<5	<5	10	<5	<5	<5	<5	36	<5	<5 [<5]	<5	<5	<5 [<5]	<5 [<5]	34 [5]	<5	<5 [<5]	<5
Selenium	5	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5 [<5]	<5	<5	<5 [<5]	<5 [<5]	<5 [<5]	<5	<5 [<5]	<5
Silver	0.2	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 [<0.5]	<0.5	<0.5	<0.5 [<0.5]	<0.5 [<0.5]	<0.5 [<0.5]	<0.5	<0.5 [<0.5]	<0.5
Thallium	3.7	ug/L	<1	1.1	<1	<1	<1	<2	<1	<2	<2	<1	<1 [<1]	<1	<1	<1 [<1]	<1 [<1]	<1 [<1]	<1	<2 [<2]	<1
Titanium	- -	ug/L	NA	NA	<20	26	<20	<20	<20	<20	NA	NA	NA	NA	NA	<20 [<20]	<20 [<20]	21 [<20]	<20	<20 [<20]	<20
Vanadium	12	ug/L	<4	<4	<4	8	<4	<4	<4	<4	**21**	<4	<4 [<4]	<4	<4	<4 [<4]	<4 [<4]	7 [<4]	<4	<4 [<4]	<4
Zinc	282.7	ug/L	<5	29	55	115	22	9	8	7	**1,890**	<5	<5 [<5]	12	20	10 [8]	31 [14]	**508 [11]**	19	<5 [83]	<5
Miscellaneous																					
Total Suspended Solids (TSS)	- -	ug/L	23,000	91,000	69,000	74,000	24,000	115,000	8,000	7,000	39,000	NA	1,000 [<1,000]	4,000	12,000	1,000 [<1,000]	31,000 [76,000]	224,000 [1,000]	3,000	1,000 [416,000]	3,000
Inorganic-Dissolved																					
Antimony (Dissolved)	130	ug/L	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	10	ug/L	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2 [<2]	NA	NA	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	1,308	ug/L	219	NA	NA	NA	NA	NA	NA	NA	NA	NA	100 [101]	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	32.3	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1 [<1]	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	4.8	ug/L	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.5 [<0.5]	NA	NA	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	11	ug/L	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	100	ug/L	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	21.6	ug/L	<4	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4 [<4]	NA	NA	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	30.9	ug/L	<3	NA	NA	NA	NA	NA	NA	NA	NA	NA	<3 [<3]	NA	NA	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	4,767	ug/L	819	NA	NA	NA	NA	NA	NA	NA	NA	NA	53 [54]	NA	NA	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	1.3	ng/L	<0.51	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.71 [<0.51]	NA	NA	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	124.3	ug/L	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	5	ug/L	<5	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	0.2	ug/L	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.5 [<0.5]	NA	NA	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	3.7	ug/L	<1	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1 [<1]	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	12	ug/L	<4	NA	NA	NA	NA	NA	NA	NA	NA	NA	<4 [<4]	NA	NA	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	282.7	ug/L	29	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5 [<5]	NA	NA	NA	NA	NA	NA	NA	NA

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RACER Trust, Buick City Site, Flint, Michigan

Sample Name: Date Collected:	GSI	Units	Outfall 010 11/02/11	Outfall 010 12/13/11	Outfall 011 01/26/11	Outfall 011 02/24/11	Outfall 011 07/14/11	Outfall 011 09/14/11	Outfall 011 10/12/11	Outfall 013 01/26/11	Outfall 013 04/29/11	Outfall 013 05/31/11	Outfall 013 06/27/11	Outfall 013 07/14/11	Outfall 013 08/15/11	Outfall 013 09/14/11	Outfall 013 12/13/11
VOC																	
1,1,1,2-Tetrachloroethane	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	89	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	78	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	330	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	740	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	130	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	- -	ug/L	<5	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trimethylbenzene	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	99	ug/L	<5	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	17	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	- -	ug/L	<5	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	5.7	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	13	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	360	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	230	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	45	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	28	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	17	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
2-Butanone	2,200	ug/L	<25	<25	<30	<25	<25	<25	<25	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	- -	ug/L	<50	<50	<50	<50	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	19	ug/L	<5	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	- -	ug/L	<50	<50	<50	<50	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1,700	ug/L	<50	<50	<50	<50	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA
Acrylonitrile	2	ug/L	<2	<2	<2	<2	<2	<2	<2	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	200	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
Bromobenzene	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	35	ug/L	<5	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	- -	ug/L	<5	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	45	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	25	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	1,100	ug/L	<5	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	350	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
Chloromethane	- -	ug/L	<5	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,2-Dichloroethene	620	ug/L	<1	1	3	3	4	3	2	NA	NA	NA	NA	NA	NA	NA	NA
cis-1,3-Dichloropropene	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
Dibromochloromethane	- -	ug/L	<5	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA
Dibromomethane	- -	ug/L	<5	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	- -	ug/L	<5	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA
Diethyl ether	- -	ug/L	<10	<10	<10	<10	<10	<10	<10	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	18	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	6.7	ug/L	<5	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA
Iodomethane	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	28	ug/L	<5	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA
m&p-Xylene	- -	ug/L	<2	<2	<2	3	<2	<2	<2	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	7,100	ug/L	<5	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	1,500	ug/L	<5	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	11	ug/L	<5	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
o-Xylene	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	- -	ug/L	<5	<5	<5	<5	<5	<5	<5	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	80	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	60	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
Tetrahydrofuran	11,000	ug/L	<90	<90	<90	<90	<90	<90	<90	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	270	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA

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trans-1,2-Dichloroethene	1,500	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,4-Dichloro-2-butene	- -	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	200	ug/L	<1	<1	2	1	2	2	2	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	- -	ug/L	<1	<1	6	5	6	6	5	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	13	ug/L	<1	<1	<1	<1	<1	<1	<1	NA	NA	NA	NA	NA	NA	NA	NA
SVOC																	
1,2,4-Trichlorobenzene	99	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	13	ug/L	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	28	ug/L	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	17	ug/L	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
2,2'-Oxybis(1-Chloropropane)	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	5	ug/L	NA	NA	NA	NA	NA	NA	<4	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	11	ug/L	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	380	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	- -	ug/L	NA	NA	NA	NA	NA	NA	<25	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	18	ug/L	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	19	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	- -	ug/L	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	- -	ug/L	NA	NA	NA	NA	NA	NA	<25	NA	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	- -	ug/L	NA	NA	NA	NA	NA	NA	<20	NA	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	0.3	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	- -	ug/L	NA	NA	NA	NA	NA	NA	<25	NA	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	- -	ug/L	NA	NA	NA	NA	NA	NA	<20	NA	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-Methylphenol	7.4	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	- -	ug/L	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl-phenylether	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	- -	ug/L	NA	NA	NA	NA	NA	NA	<25	NA	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	- -	ug/L	NA	NA	NA	NA	NA	NA	<25	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	38	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	- -	ug/L	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	- -	ug/L	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	- -	ug/L	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	- -	ug/L	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	- -	ug/L	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	1	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	25	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Butylbenzylphthalate	67	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	- -	ug/L	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	- -	ug/L	NA	NA	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	4	ug/L	NA	NA	NA	NA	NA	NA	<4	NA	NA	NA	NA	NA	NA	NA	NA
Diethylphthalate	110	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Dimethylphthalate	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Butylphthalate	9.7	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Di-n-Octylphthalate	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	1.6	ug/L	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	12	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.2	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	0.053	ug/L	NA	NA	NA	NA	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	6.7	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	- -	ug/L	NA	NA	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA
Isophorone	1,300	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	11	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	180	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA

Table 9. NPMP Summary of 2011 Data, 2011 CMI Annual Report
RACER Trust, Buick City Site, Flint, Michigan

Sample Name: Date Collected:	GSI	Units	Outfall 010 11/02/11	Outfall 010 12/13/11	Outfall 011 01/26/11	Outfall 011 02/24/11	Outfall 011 07/14/11	Outfall 011 09/14/11	Outfall 011 10/12/11	Outfall 013 01/26/11	Outfall 013 04/29/11	Outfall 013 05/31/11	Outfall 013 06/27/11	Outfall 013 07/14/11	Outfall 013 08/15/11	Outfall 013 09/14/11	Outfall 013 12/13/11
N-Nitroso-di-n-propylamine	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	2.8	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	2	ug/L	NA	NA	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA	NA	NA
Phenol	450	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	- -	ug/L	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA	NA	NA
PCB																	
Aroclor-1016	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1221	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1254	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1260	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total PCBs	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Inorganic																	
Antimony	130	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Arsenic	10	ug/L	**18**	2	<2	<2	<2	<2	<2	9	<2	<2	<2	2	<2	**23**	<2
Barium	1,308	ug/L	1,170	113	86	86	78	78	78	214	54	124	86	143	84	138	88
Beryllium	32.3	ug/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1
Cadmium	4.8	ug/L	**4.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5
Chromium Total	11	ug/L	**29**	<5	<5	<5	9	<5	8	7	<5	**51**	10	**14**	<5	5	<5
Cobalt	100	ug/L	6	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Copper	21.6	ug/L	**102**	<4	<4	<4	<4	<4	<4	5	<4	**35**	**46**	**59**	<4	**72**	<4
Cyanide (total)	5.2	ug/L	**13**	<5	<5	<5	<5	<5	<5	<5	**8**	<5	<5	<5	<5	<5	<5
Lead	30.9	ug/L	**571**	6	<3	7	<3	10	<3	7	<3	**248**	**38**	14	5	24	<3
Manganese	4,767	ug/L	**5,240**	306	58	62	43	55	54	1,920	76	693	173	528	40	318	98
Mercury	1.3	ng/L	**9.7**	**91**	<0.51	0.53	<0.51	0.92	0.50	<0.51	0.67	**5.7**	**42**	**87**	**1.6**	**29**	0.70
Nickel	124.3	ug/L	54	<5	<5	<5	5	<5	<5	7	<5	10	<5	8	<5	7	<5
Selenium	5	ug/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Silver	0.2	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	3.7	ug/L	<2	<2	<1	<1	<1	<2	<1	<1	<1	<1	<1	<1	<1	<2	<2
Titanium	- -	ug/L	30	NA	NA	NA	<20	<20	<20	NA	NA	30	<20	<20	<20	<20	NA
Vanadium	12	ug/L	6	<4	<4	<4	<4	<4	<4	<4	<4	5	<4	4	<4	<4	<4
Zinc	282.7	ug/L	**861**	17	<5	<5	5	<5	<5	56	11	117	131	99	6	159	<5
Miscellaneous																	
Total Suspended Solids (TSS)	- -	ug/L	7,000	7,000	NA	<1,000	1,000	2,000	33,000	NA	2,000	61,000	43,000	12,000	1,000	10,000	6,000
Inorganic-Dissolved																	
Antimony (Dissolved)	130	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA
Arsenic (Dissolved)	10	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<2	NA	NA	NA	NA	NA	NA
Barium (Dissolved)	1,308	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	59	NA	NA	NA	NA	NA	NA
Beryllium (Dissolved)	32.3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA
Cadmium (Dissolved)	4.8	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.5	NA	NA	NA	NA	NA	NA
Chromium Total (Dissolved)	11	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA
Cobalt (Dissolved)	100	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA
Copper (Dissolved)	21.6	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<4	NA	NA	NA	NA	NA	NA
Lead (Dissolved)	30.9	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<3	NA	NA	NA	NA	NA	NA
Manganese (Dissolved)	4,767	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	70	NA	NA	NA	NA	NA	NA
Mercury (Dissolved)	1.3	ng/L	NA	NA	NA	NA	NA	NA	NA	NA	0.94	NA	NA	NA	NA	NA	NA
Nickel (Dissolved)	124.3	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA
Selenium (Dissolved)	5	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<5	NA	NA	NA	NA	NA	NA
Silver (Dissolved)	0.2	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<0.5	NA	NA	NA	NA	NA	NA
Thallium (Dissolved)	3.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<1	NA	NA	NA	NA	NA	NA
Vanadium (Dissolved)	12	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	<4	NA	NA	NA	NA	NA	NA
Zinc (Dissolved)	282.7	ug/L	NA	NA	NA	NA	NA	NA	NA	NA	16	NA	NA	NA	NA	NA	NA

Notes:
Bolded and highlighted detections exceed criteria.
NA - Not Analyzed
ug/L - micrograms per liter
U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

Table 10. **NPMP- Monitoring Point and Upgradient Sampling Data, 2011 CMI Annual Report**
RACER Trust, Buick City Site, Flint, Michigan

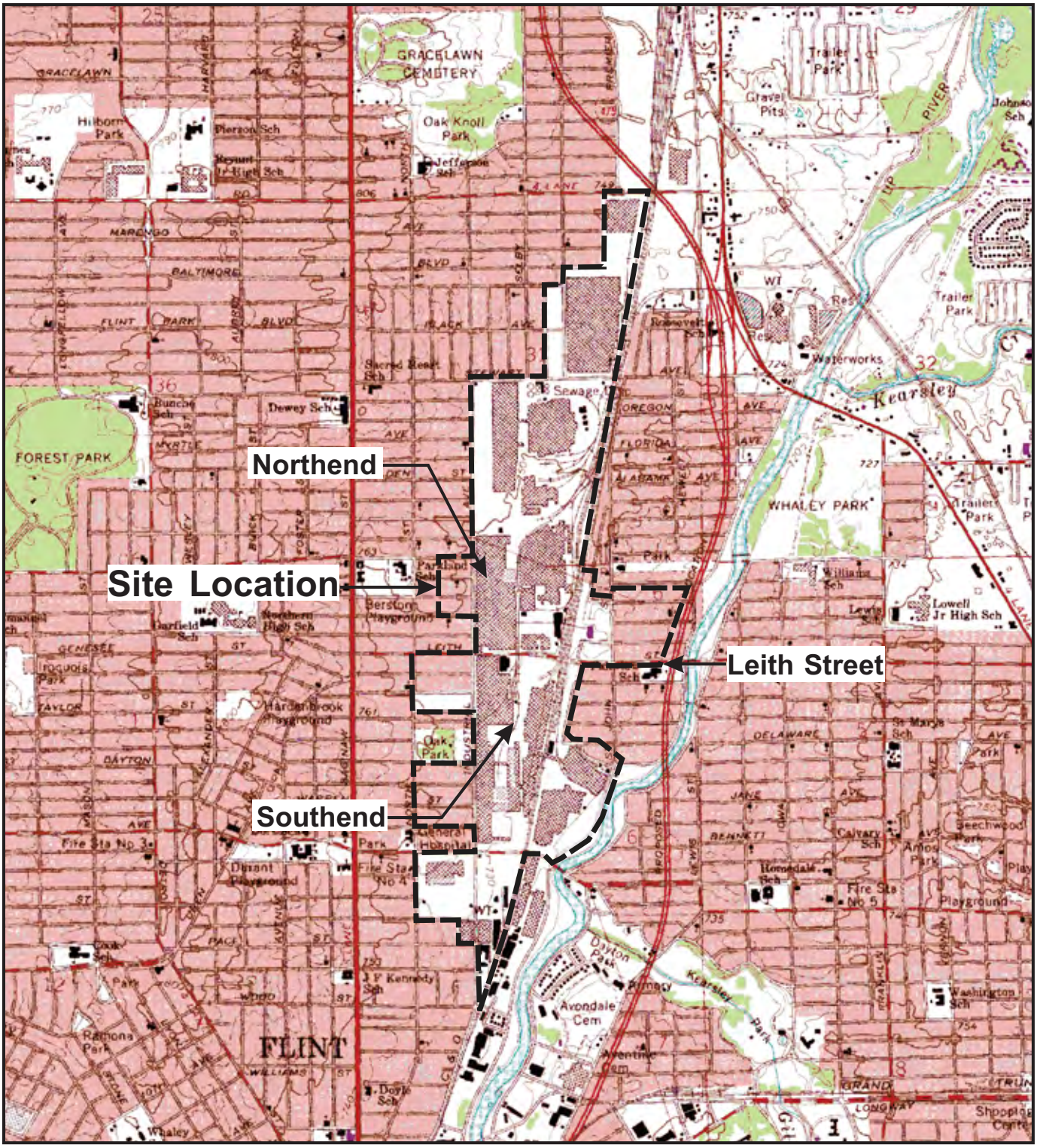
Outfall:			Outfall 001		Outfall 003/004				Outfall 013	
Sample Name:			MP001 (MH1-3)	MH-1-7	MP003 (MH 3-3)	MH-3-31	MH-3-51	MH-4-21	MP013 (13-6)	MH-13-14
Date Collected:	GSI	Units	08/15/11	08/15/11	08/15/11	08/15/11	08/15/11	08/15/11	08/15/11	08/15/11
Inorganic										
Antimony	130	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
Arsenic	10	ug/L	<2	2	5	5	<2	20	<2	<2
Barium	1,308	ug/L	63	93	151	212	26	177	84	43
Beryllium	32.3	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Cadmium	4.8	ug/L	<0.5	0.8	<0.5	1.2	<0.5	<0.5	<0.5	<0.5
Chromium Total	11	ug/L	<5	<5	<5	26	<5	<5	<5	<5
Cobalt	100	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
Copper	21.6	ug/L	<4	8	8	24	<4	63	<4	<4
Cyanide (total)	5.2	ug/L	<5	<5	<5	17	<5	<5	<5	<5
Iron	- -	ug/L	NA	NA	NA	NA	NA	NA	NA	NA
Lead	30.9	ug/L	14	25	26	39	10	35	5	<3
Manganese	4,767	ug/L	<5	225	852	230	<5	2,530	40	71
Mercury	1.3	ng/L	1.4	3.6	3.3	11	1.5	42	1.6	1.5
Nickel	124.3	ug/L	<5	<5	7	7	<5	19	<5	<5
Selenium	5	ug/L	<5	<5	<5	<5	<5	<5	<5	<5
Silver	0.2	ug/L	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Thallium	3.7	ug/L	<1	<1	<1	<1	<1	<1	<1	<1
Titanium	- -	ug/L	<20	<20	<20	<20	<20	<20	<20	<20
Vanadium	12	ug/L	<4	4	<4	9	<4	<4	<4	<4
Zinc	282.7	ug/L	11	70	44	70	<5	78	6	<5

Table 11. **Summary of AOI 9-B South Soil Sample Analytical Results, 2011 CMI Annual Report**
RACER Trust, NAO Flint Operations Site, Flint, Michigan

Location ID: Sample Depth(ft): Date Collected:	Units	SB-09-56 0 - 2 09/12/11	SB-09-61 0 - 2 09/12/11	SB-09-62 0 - 2 09/12/11	SB-09-62 3 - 5 09/12/11	SB-09-63 0 - 2 09/12/11	SB-09-63 3 - 5 09/12/11	SB-09-64 0 - 2 09/12/11	SB-09-64 3 - 5 09/12/11	SB-09-65 0 - 2 09/12/11	SB-09-65 3 - 5 09/12/11	SB-09-66 0 - 2 09/12/11	SB-09-66 3 - 5 09/12/11	SB-09-67 0 - 2 09/12/11	SB-09-67 3 - 5 09/12/11
Inorganic															
Lead	mg/kg	1.82	3.62	5.39	106	11.9	2.73	7.23	2.45	42.4	4.83	68.5 [91.1]	15.6	2.75	49.5

Location ID: Sample Depth(ft): Date Collected:	Units	SB-09-68 0 - 2 09/12/11	SB-09-68 3 - 5 09/12/11
Inorganic			
Lead	mg/kg	6.51	9.83

Figures



REFERENCE: Base Map Source: USGS 7.5 Min. Topo. Quad., Flint North, Mich. (1969, Photorevised 1975).

2000' 0 2000'

Approximate Scale: 1" = 2000'

Area Location

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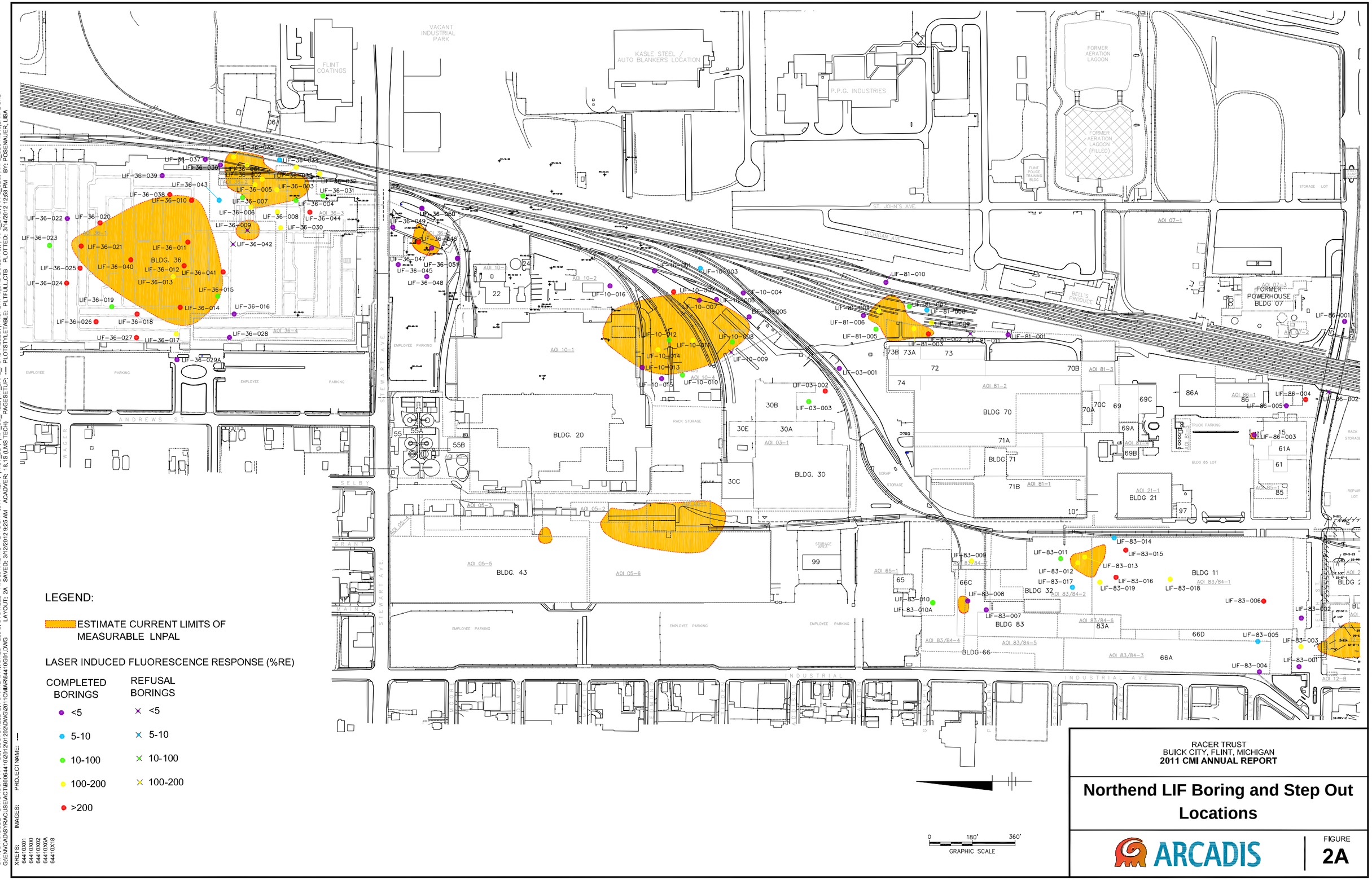
SITE LOCATION MAP

ARCADIS

FIGURE
1

03/12/2012 SYRACUSE, NY-ENV/CAD-141-DJHOWES
B0064410/2012/01202/CDR/64410N01.CDR



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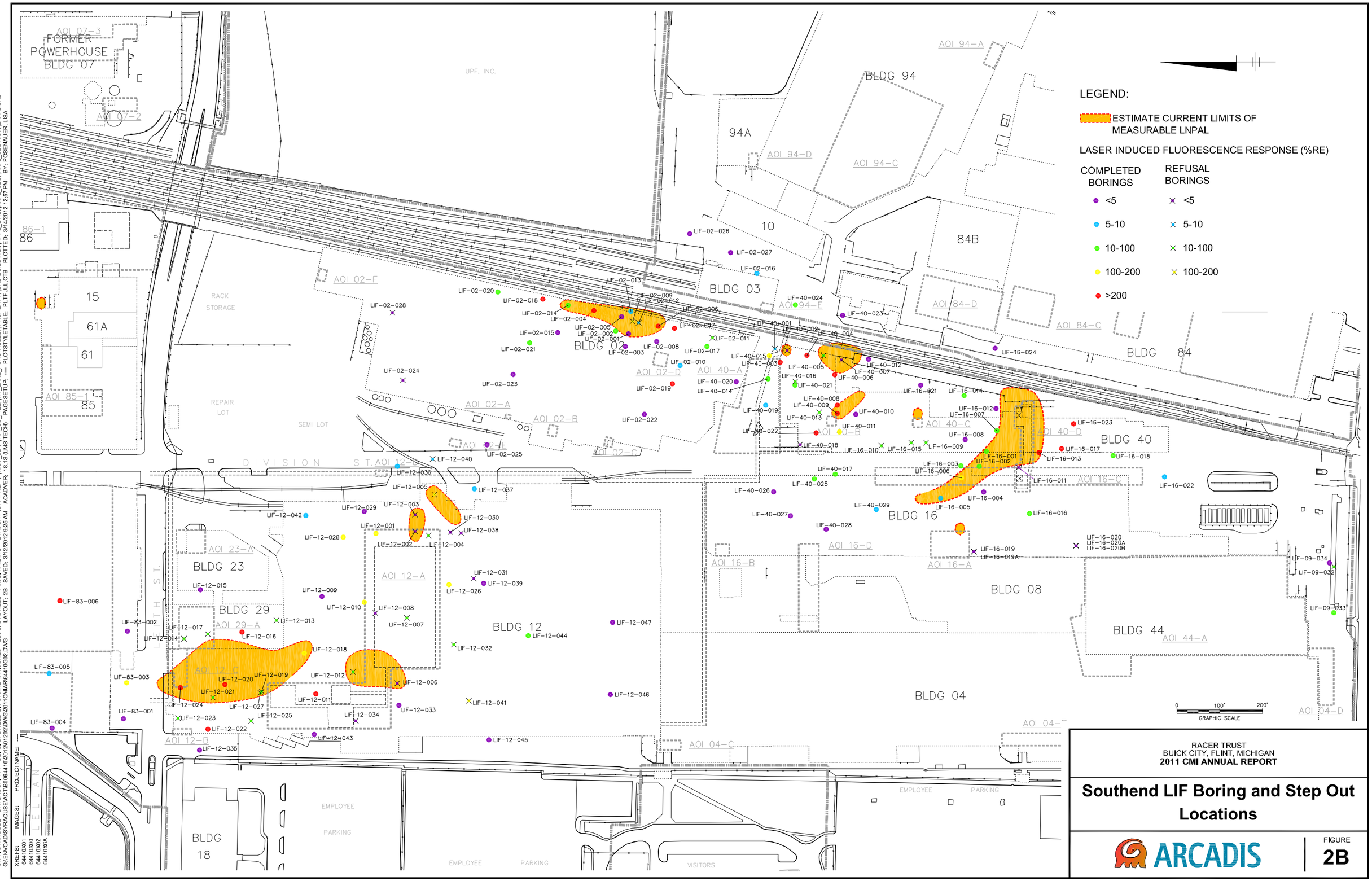
Northend LIF Boring and Step Out Locations

ARCADIS

FIGURE
2A

CITY:SYRACUSE DIV/GROUP: 141 DB: G. STOWELL L: FORAKER, W. JONES LD: G. STOWELL PM: D. KADING LYR: ON=*;OFF=*REF*,*1|HST_SB*,*1|RFI_SS_PIEZ,|HY_LAKE_POND-FILLED,|PROPERTY,|SHD-BUILDING,,|NAPL_EVID,|NAPL_OBS,|NAPL_OBS-HIST,|LNAPL-SHD
G:\ENVCAD\SYRACUSE\ACT\B0064410\2012\01202\DWG\2011CMAR\64410G01.DWG LAYOUT: 2A SAVED: 3/12/2012 9:25 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/14/2012 12:58 PM BY: POSENAUER, LISA
XREFS: 64410X01 64410X00 64410X02 64410X6A 64410X18 IMAGES: PROJECTNAME: ----



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BUICK CITY, FLINT, MICHIGAN
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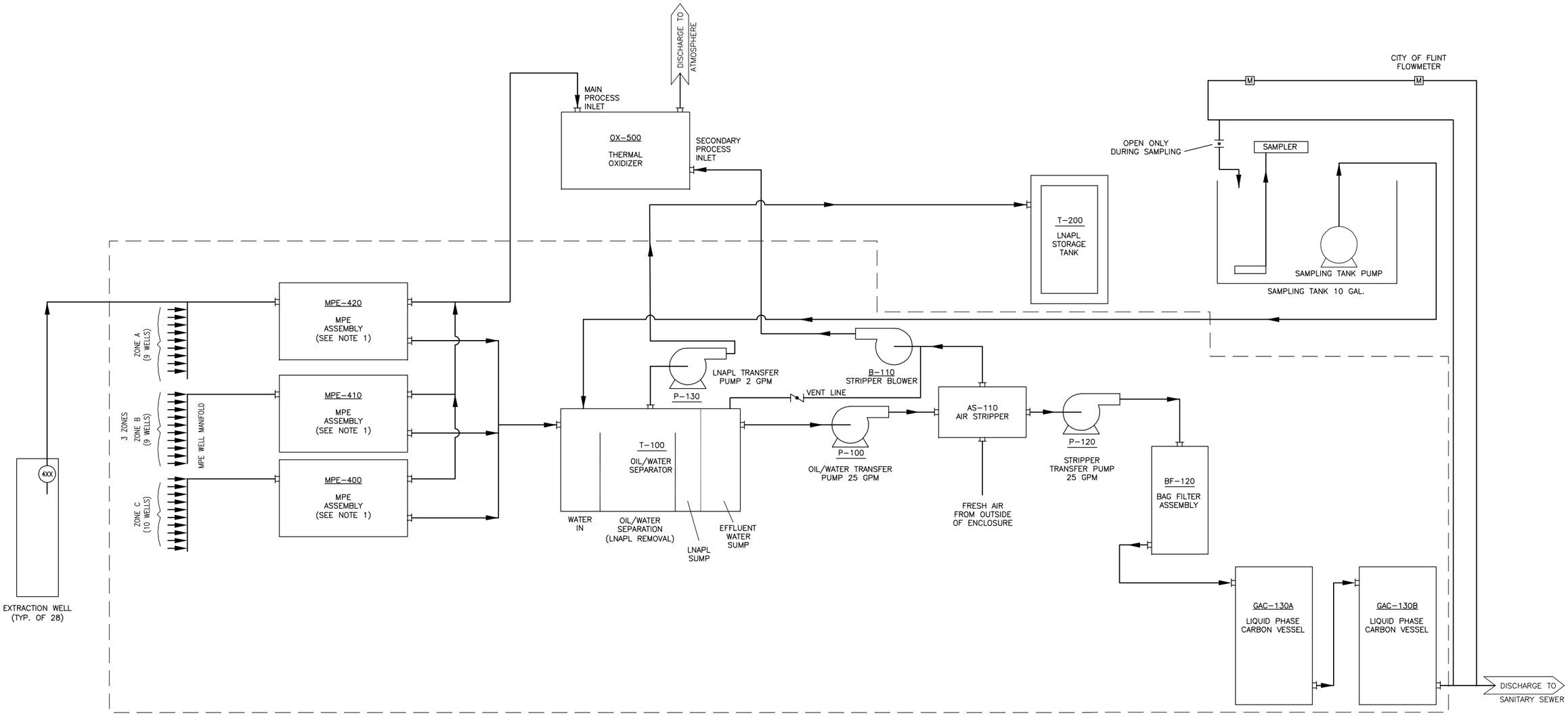
Southend LIF Boring and Step Out Locations

ARCADIS

FIGURE
2B

CITY: SYRACUSE DIV/GROUP: 141 DB: G. STOWELL L: FORAKER, W. JONES LD: G. STOWELL PM: D. KAIDING LYR: ON=*;OFF=*REF*;*!HST_SB*;*!RFI_SS_PIEZ,!HY_LAKE_POND-FILLED,!PROPERTY,!SHD-BUILDING,!NAPL_EVID,!NAPL_OBS,!NAPL_OBS-HST,!LNAPL-SHD
G:\ENVCAD\SYRACUSE\ACT\B0064410\2012\02\DWG\2011CMIAR\64410GR2.DWG LAYOUT: 2B SAVED: 3/1/2012 9:25 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/14/2012 12:57 PM BY: POSENAUER, LISA
XREFS: 64410X01 64410X00 64410X02 64410X6A IMAGES: PROJECTNAME:



EXTRACTION WELL MANIFOLD																													
WELL NAME	MPE 1	MPE 2	MPE 22	MPE 23	MPE 24	MPE 25	MPE 26	MPE 27	MPE 28	MPE 29	MPE 3	MPE 4	MPE 7	MPE 10	MPE 16	MPE 17	MPE 18	MPE 19	MPE 20	MPE 21	MPE 5	MPE 6	MPE 8	MPE 9	MPE 11	MPE 12	MPE 13	MPE 14	MPE 15
UNIQUE ID 4XX	01	02	22	23	24	25	26	27	28	29	03	04	07	10	16	17	18	19	20	21	05	06	08	09	11	12	13	14	15
MPE BLOWER NAME	400										410										420								

STREAM ID	110	111	112	113	201	301	4XX	45X	501	502	503	504	505	51X
DESIGN FLOW (GPM)	4	4	4	4	<0.1	4	1	1						
DESIGN FLOW (SCFM)							35	35	100	310	310	210	210	35
COMMENTS/ NOTES					3, 4	3, 5, 6, 8	1	1, 2	6	7				1

GPM – GALLONS PER MINUTE
SCFM – STANDARD CUBIC FEET PER MINUTE

NOTES:

1. MPE ASSEMBLY INCLUDES MOISTURE SEPARATOR, CONDENSATE TRANSFER PUMP, AND MPE BLOWER, TYPICAL OF 1 ASSEMBLY PER ZONE. SEE FIGURE 10.

GPM – GALLONS PER MINUTE
SCFM – STANDARD CUBIC FEET PER MINUTE

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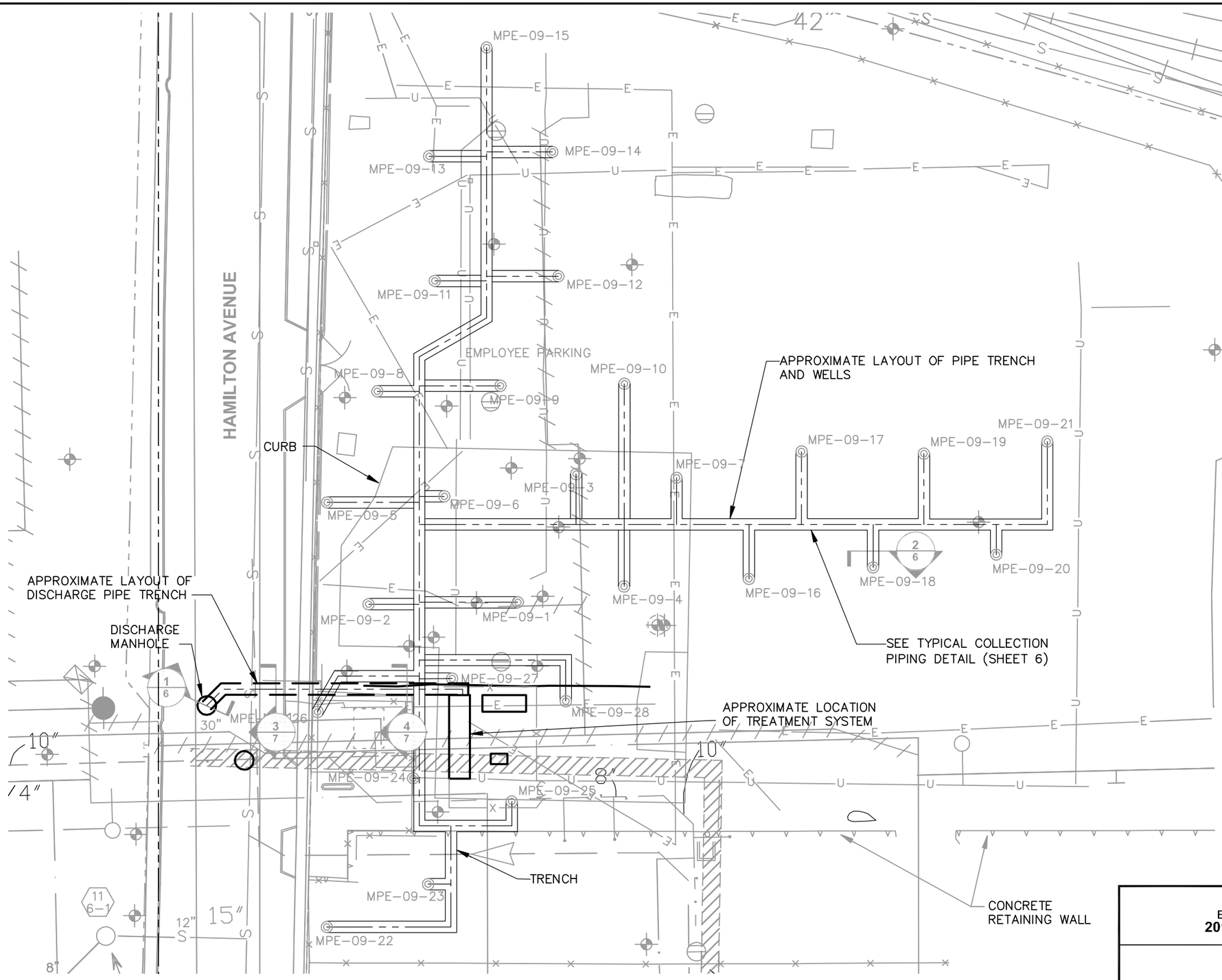
AOI 09-B Process Flow Diagram

ARCADIS

FIGURE
3

CITY:SYRACUSE-NY DIV/GROUP:141 DB: S. KOWALCZYK LD: PIC: PM: TM: LYR:OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\B0064410\2012\02\DWG\2011CMIAR\64410F01.DWG LAYOUT: 3 SAVED: 3/12/2012 10:39 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/12/2012 10:39 AM BY: POSENAUER, LISA
XREFS: 64410X00 IMAGES: PROJECTNAME:



NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ INC., DATED APRIL 2001, AT A SCALE OF 1:100.
2. ALL LOCATIONS ARE APPROXIMATE.

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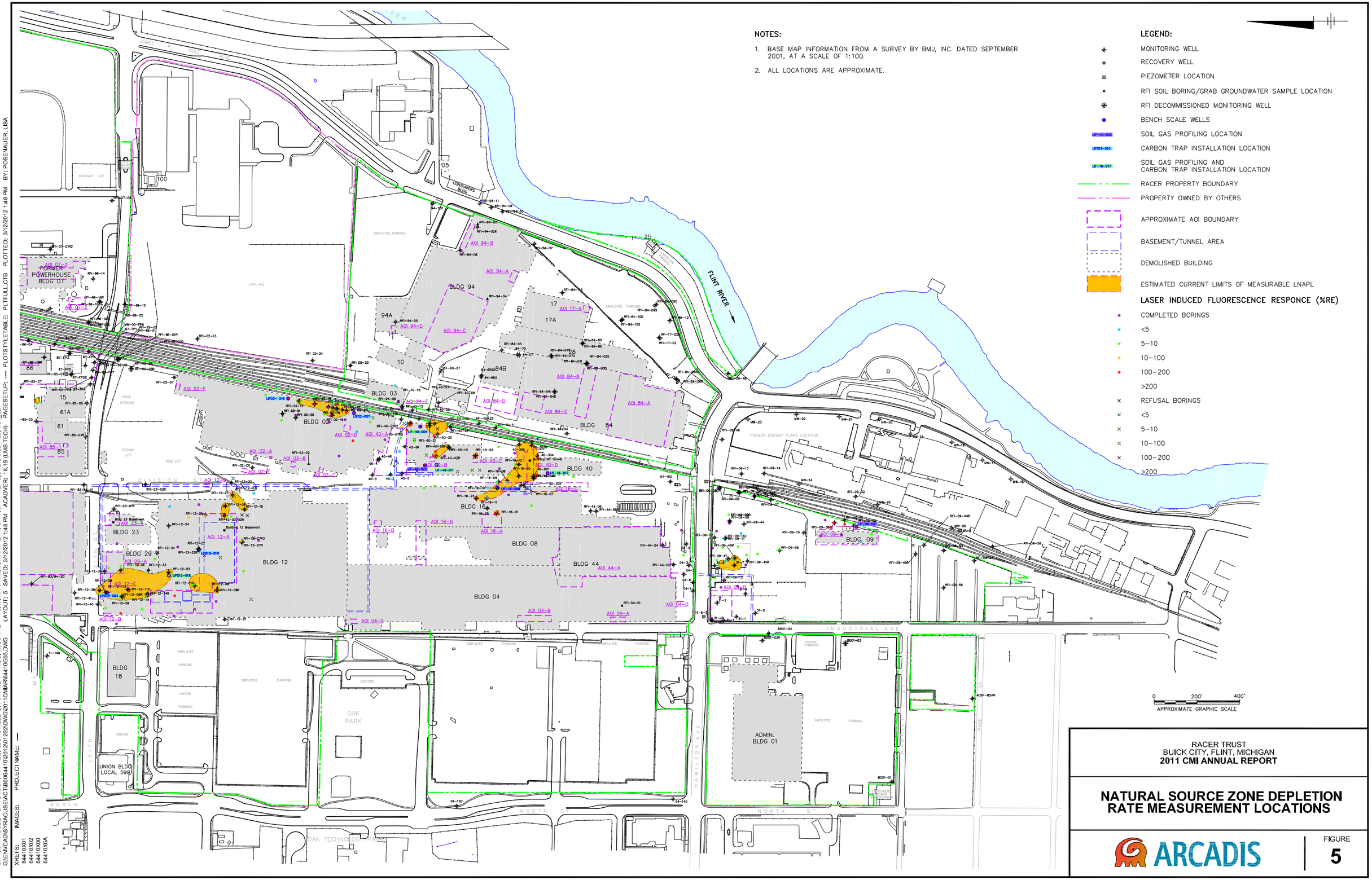
PIPING PLAN

ARCADIS

FIGURE
4

CITY: WPB, FL DIV/GROUP: ENVWE30 DB: B.OLIVA LD: J.RICHARDS PIC: RJKAPPES PM: RJKAPPES TM: T.HAYS LYR:ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\B0064410\2012\02\DWG\2011CMIAR\64410F02.DWG LAYOUT: 4 SAVED: 3/12/2012 11:10 AM ACADVER: 18.1S (LMS TECH)
PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/12/2012 11:10 AM BY: POSENAUER, LISA
XREFS: 64410X01 64410X07 64410X18 IMAGES: PROJECTNAME: ----



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BUICK CITY, FLINT, MICHIGAN
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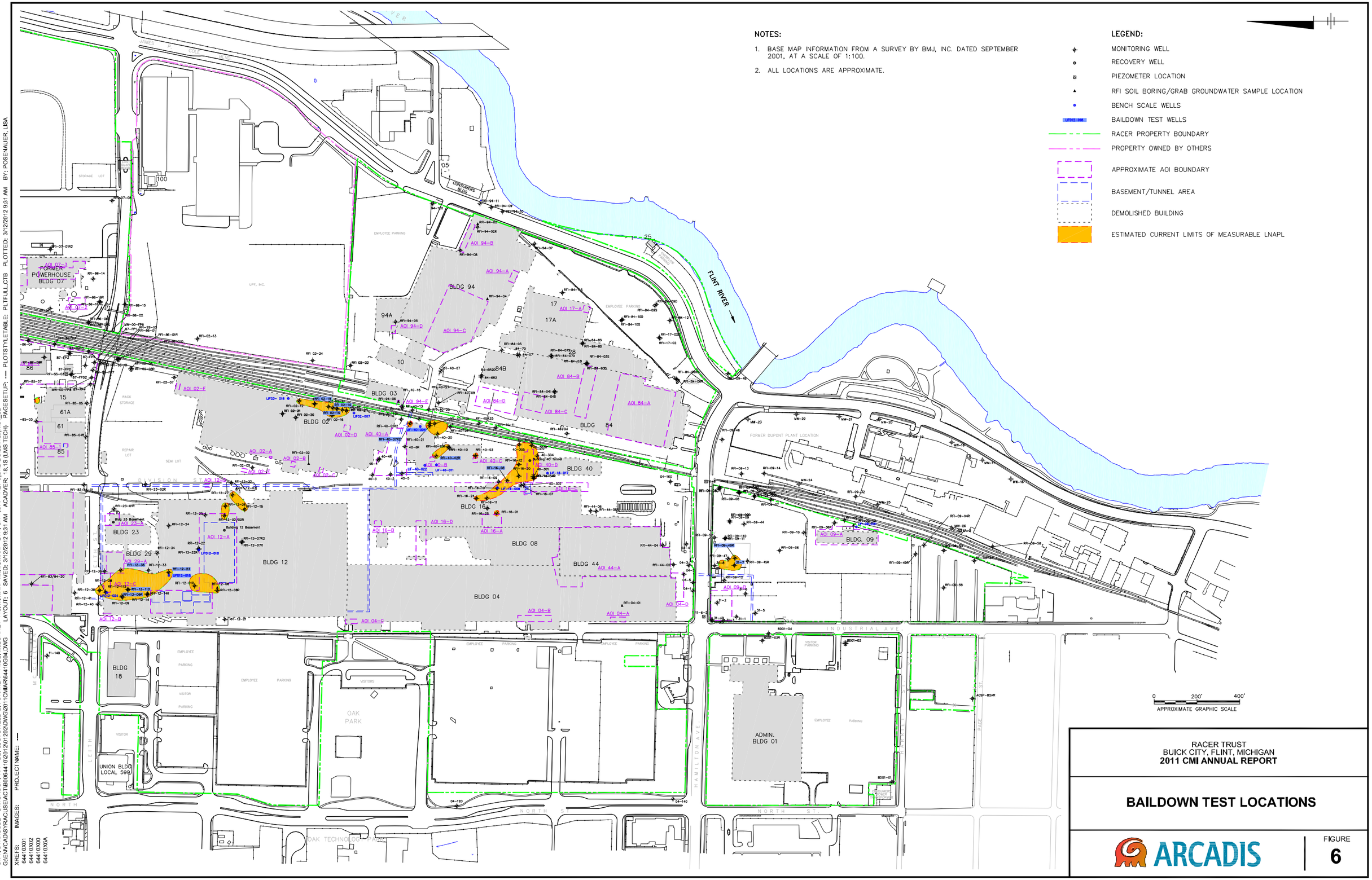
NATURAL SOURCE ZONE DEPLETION RATE MEASUREMENT LOCATIONS

ARCADIS

FIGURE
5

CITY:SYRACUSE DIV/GROUP:141 DB:G.STOWELL L.FORAKER PM:L.McBURNEY PIC:M.MAKI TM:M.MAKI LYR:ON=*;OFF=*REF*;[SHD-BUILDING,HIST_SB] PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/12/2012 1:49 PM BY: POSENAUER,LISA
G:\ENVCAD\SYRACUSE\ACT\B0064410\2012\01202\DWG\2011CMIAR\64410G03.DWG LAYOUT: 5 SAVED: 3/12/2012 1:48 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PROJECTNAME: ---- IMAGES: XREFS: 64410X01 64410X02 64410X00 64410X6A



NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. ALL LOCATIONS ARE APPROXIMATE.

LEGEND:

- MONITORING WELL
- RECOVERY WELL
- PIEZOMETER LOCATION
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- BENCH SCALE WELLS
- BAILDOWN TEST WELLS
- RACER PROPERTY BOUNDARY
- PROPERTY OWNED BY OTHERS
- APPROXIMATE AOI BOUNDARY
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL

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BUICK CITY, FLINT, MICHIGAN
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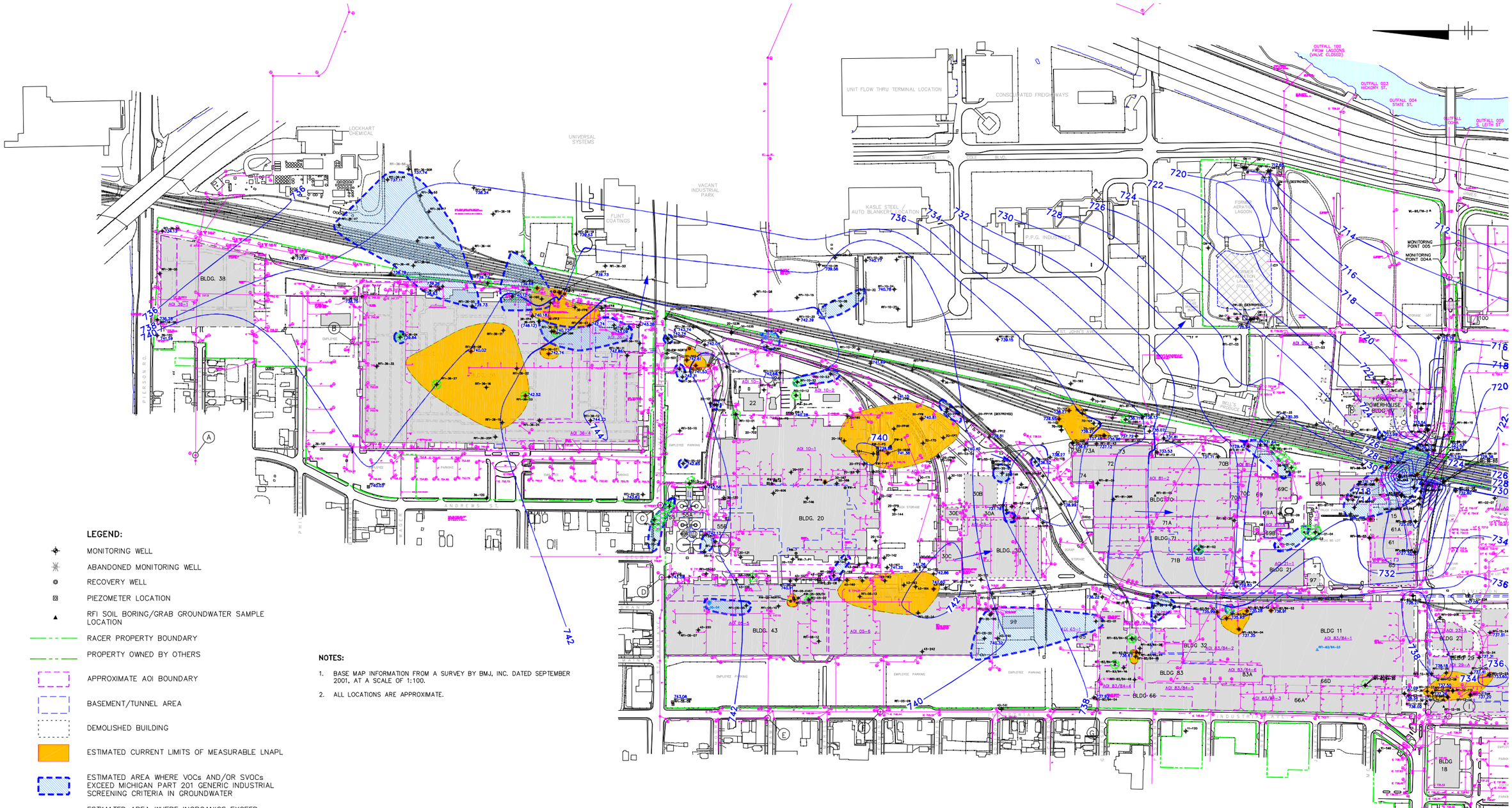
BAILDOWN TEST LOCATIONS

ARCADIS

FIGURE
6

CITY:SYRACUSE DIV/GROUP:141 DB:G.STOWELL L.FORAKER PM:L.McGBURNEY PIC:M.MAKI TM:M.MAKI LYR:ON=*;OFF=*REF*;[SHD-BUILDING,HIST_SB] G:\ENVCAD\SYRACUSE\ACT\B0064410\2012\01202\DWG\2011CMIAR\64410G04.DWG LAYOUT: 6 SAVED: 3/12/2012 9:31 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/12/2012 9:31 AM BY: POSENAUER, LISA
XREFS: 64410X01 64410X02 64410X00 64410X6A IMAGES: PROJECTNAME: ----



LEGEND:

- MONITORING WELL
- ABANDONED MONITORING WELL
- RECOVERY WELL
- PIEZOMETER LOCATION
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- RACER PROPERTY BOUNDARY
- PROPERTY OWNED BY OTHERS
- APPROXIMATE AOI BOUNDARY
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- ESTIMATED AREA WHERE VOCs AND/OR SVOCs EXCEED MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA IN GROUNDWATER
- ESTIMATED AREA WHERE INORGANICS EXCEED MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA IN GROUNDWATER
- 742.52 — GROUNDWATER ELEVATION (IN FEET)
- 726 — GROUNDWATER ELEVATION CONTOUR (IN FEET)
- GENERALIZED FLOW DIRECTION
- (746.12) — ANOMALOUS GROUNDWATER ELEVATION (IN FEET) NOT USED TO GENERATE GROUNDWATER ELEVATION CONTOURS
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED IN 2011

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. ALL LOCATIONS ARE APPROXIMATE.

0 250' 500'
GRAPHIC SCALE

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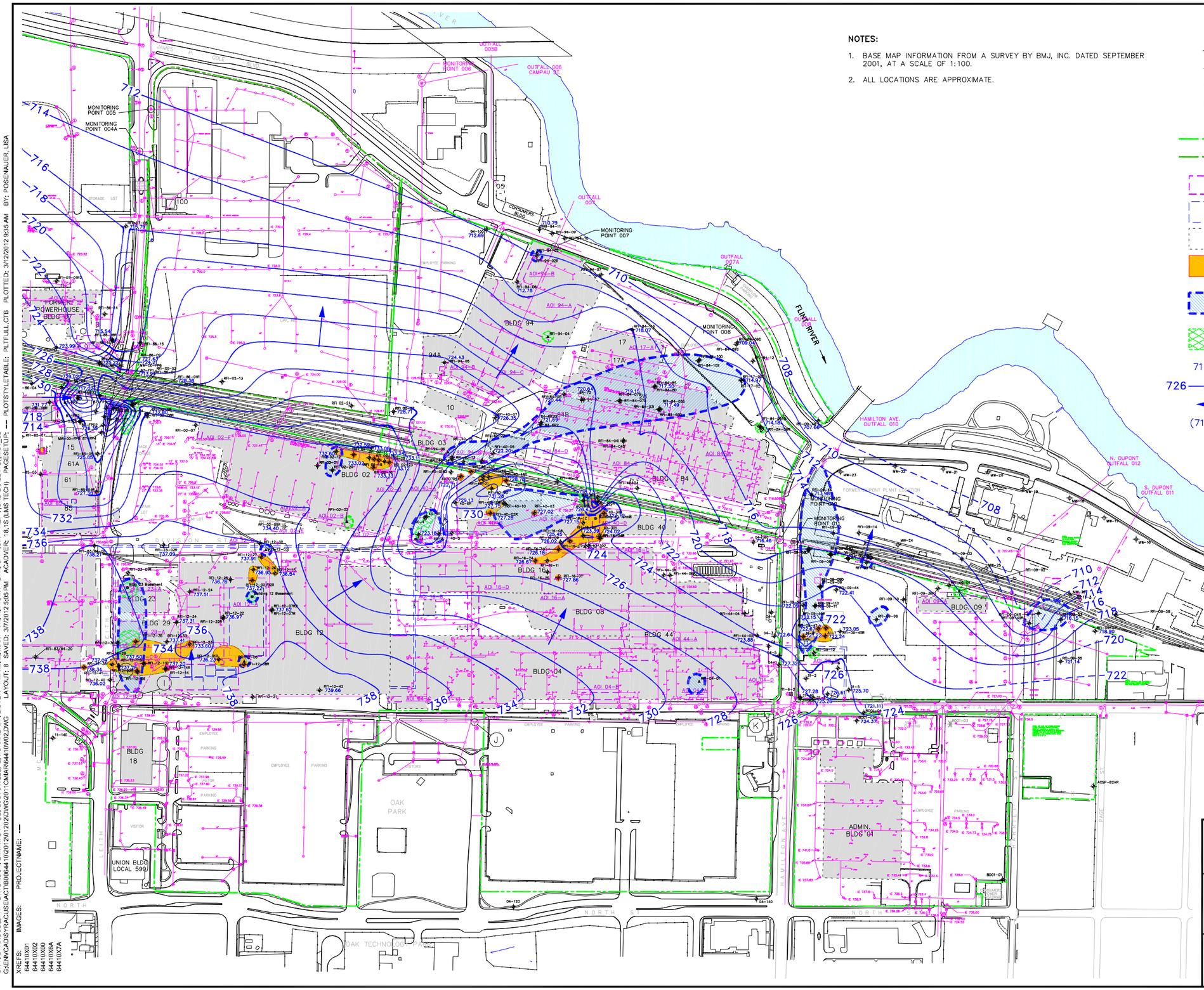
GROUNDWATER ELEVATION CONTOUR MAP OCTOBER 2011 - NORTHEND

ARCADIS

FIGURE
7

CITY: SYRACUSE, NY DIV/GROUP: ENV/IM-OV DB: G. STOWELL, P. LISTER PM/TM: M. NAKI TR: R. PIONK LYR: ON=*;OFF=*REF*,!S#1D-BUILDING,!HST_SB
G:\ENVCAD\SYRACUSE\ACT\B0064410\2012\02\DWG\2011CMIAR\64410WR1.DWG LAYOUT: 7 SAVED: 3/12/2012 9:34 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/12/2012 9:34 AM BY: ROSENAUER, LISA
XREFS: 64410X01 64410X00 64410X6A 64410X02 64410X7A IMAGES: PROJECTNAME: ----



NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. ALL LOCATIONS ARE APPROXIMATE.

LEGEND:

- MONITORING WELL
- ABANDONED MONITORING WELL
- RECOVERY WELL
- PIEZOMETER LOCATION
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- RACER PROPERTY BOUNDARY
- PROPERTY OWNED BY OTHERS
- APPROXIMATE AOI BOUNDARY
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- ESTIMATED AREA WHERE VOCs AND/OR SVOCs EXCEED MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA IN GROUNDWATER
- ESTIMATED AREA WHERE INORGANICS EXCEED MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA IN GROUNDWATER
- 710.79 — GROUNDWATER ELEVATION (IN FEET)
- 726 — GROUNDWATER ELEVATION CONTOUR (IN FEET)
- GENERALIZED FLOW DIRECTION
- (710.79) — ANOMALOUS GROUNDWATER ELEVATION (IN FEET) NOT USED TO GENERATE GROUNDWATER ELEVATION CONTOURS
- LOCATION WHERE MEASURABLE LNAPL HAS BEEN DETECTED IN 2011

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2011 CMI ANNUAL REPORT

GROUNDWATER ELEVATION CONTOUR MAP OCTOBER 2011 - SOUTHEND

ARCADIS

FIGURE
8

CITY: SYRACUSE, NY DIV/GROUP: ENV/IMA-DV DB: G. STOWELL, L. FORAKER, P. LISTER PM/TM: M. MAKI TR: R. PIONK LYR: ON=*;OFF=*REF*,IS-HD-BUILDING,HIST_SB LAYOUT: 8 SAVED: 3/7/2012 5:05 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/12/2012 9:35 AM BY: POSENAUER, LISA
G:\ENVCAD\SYRACUSE\ACT\B0064410\2012\01\202\DWG\2011CMIAR\64410W02.DWG
XREFS: 64410X01 64410X02 64410X00 64410X6A 64410X7A
IMAGES: PROJECTNAME: ----

GROUNDWATER ANALYTICAL DATA - NORTHEND

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FIGURE 9

RFI-36-55/55R

VOC	6/18/2008	9/17/2008	12/4/2008	10/27/2011
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	0.003
Benzene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
n-Propylbenzene	NS	NS	NS	ND(0.001)
Tetrachloroethene	0.006 (NDW,RDW)	0.005	0.0005 J	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	0.0002 J	0.001 J	0.009 (NDW,RDW)

RFI-36-56

VOC	6/18/2008	9/17/2008	12/4/2008	10/24/2011
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	0.009
Benzene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
n-Propylbenzene	NS	NS	NS	ND(0.001)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	0.0002 J	0.0007 J	0.0004 J	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)

RFI-36-19

VOC	12/4/2008	9/25/2009	10/15/2010	10/25/2011
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
n-Propylbenzene	NS	NS	ND(0.001)	ND(0.001)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)

RFI-36-20

VOC	6/22/2002	10/6/2004	10/14/2010
1,1-Dichloroethene	NS	ND(0.001)	ND(0.001)
Benzene	NS	ND(0.001)	ND(0.001)
n-Propylbenzene	NS	NS	ND(0.001)
Tetrachloroethene	NS	ND(0.001)	ND(0.001)
Trichloroethene	NS	ND(0.001)	ND(0.001)
Vinyl chloride	NS	ND(0.001)	ND(0.001)
Inorganic			
Arsenic	ND(0.001)	NS	NS
Cyanide (total)	ND(0.005)	NS	NS
Lead	0.000089 J	NS	NS
Manganese	0.00054 J	NS	NS
Selenium	ND(0.0014)	NS	NS
Silver	ND(0.0004 J)	NS	NS
Inorganic-Dissolved			
Arsenic	ND(0.001)	NS	NS
Cyanide (total)	ND(0.005)	NS	NS
Lead	ND(0.0004)	NS	NS
Manganese	0.00048 J	NS	NS
Selenium	ND(0.0014)	NS	NS
Silver	ND(0.0004 J)	NS	NS

RFI-10-28

VOC	6/18/2008	9/17/2008	12/3/2008
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)	ND(0.001)
n-Propylbenzene	NS	NS	NS
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)

RFI-10-35

VOC	9/17/2008	12/3/2008	10/14/2010	10/24/2011
1,1-Dichloroethene	0.004	0.005	0.003	0.002
Benzene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
n-Propylbenzene	NS	NS	ND(0.001)	ND(0.001)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)

RFI-81-50

VOC	9/16/2008	9/24/2009	10/18/2010	10/24/2011
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	NS
Benzene	ND(0.001)	ND(0.001)	ND(0.001)	NS
n-Propylbenzene	NS	NS	ND(0.001)	NS
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)	NS
Trichloroethene	ND(0.001)	0.0008 J	ND(0.001)	NS
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)	NS
Inorganic				
Arsenic	NS	NS	NS	NS
Cyanide (total)	NS	NS	NS	NS
Lead	NS	ND(0.003)	NS	ND(0.003)
Manganese	NS	NS	NS	NS
Selenium	NS	NS	NS	NS
Silver	NS	NS	NS	NS

RFI-81-51

VOC	10/29/2007	9/16/2008	9/24/2009	10/24/2011
1,1-Dichloroethene	0.0004 J	ND(0.001)	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)	0.0006	ND(0.001)
n-Propylbenzene	NS	NS	NS	ND(0.001)
Tetrachloroethene	0.002	0.006 (NDW,RDW)	0.001	0.007 (NDW,RDW)
Trichloroethene	0.025 (NDW,RDW)	0.07 (NDW,RDW)	0.01 (NDW,RDW)	0.067 (NDW,RDW)
Vinyl chloride	0.054 (NDW,RDW)	0.0003 J	0.068 (NDW,RDW)	ND(0.001)

RFI-36-48

VOC	9/17/2008	12/4/2008	10/15/2010	10/26/2011
1,1-Dichloroethene	0.002	0.004	0.006	0.003
Benzene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
n-Propylbenzene	NS	NS	ND(0.001)	ND(0.001)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	0.003 (NDW,RDW)	ND(0.001)	0.003 (NDW,RDW)	ND(0.001)

RFI-36-37

VOC	9/18/2008	9/25/2009	10/15/2010
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Benzene	0.015 (NDW,RDW)	0.015 (NDW,RDW)	0.048 (NDW,RDW)
n-Propylbenzene	NS	NS	ND(0.001)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)

RFI-10-29

VOC	9/17/2008	12/3/2008	10/14/2010	10/29/2011
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
n-Propylbenzene	NS	NS	ND(0.001)	ND(0.001)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)

RFI-81-08

VOC	10/7/2004	2/24/2005	10/18/2010
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)	ND(0.001)
n-Propylbenzene	NS	NS	ND(0.001)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	0.002	0.002	0.005
Vinyl chloride	0.008 (NDW,RDW)	0.012 J (NDW,RDW)	0.001
Inorganic			
Arsenic	NS	NS	NS
Cyanide (total)	NS	NS	NS
Lead	ND(0.003)	NS	NS
Manganese	1.36 (RDW)	NS	NS
Selenium	NS	NS	NS
Silver	NS	NS	NS

RFI-36-03

Inorganic	6/18/2002	3/25/2003	10/27/2011
Lead	0.00019 J	0.0052 (NDW,RDW)	0.008 (NDW,RDW)

RFI-10-36

VOC	9/15/2008	12/3/2008	10/14/2010
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001) /ND(0.001)
Benzene	ND(0.001)	ND(0.001)	ND(0.001) /ND(0.001)
n-Propylbenzene	NS	NS	ND(0.001) /ND(0.001)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001) /ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001) /ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001) /ND(0.001)

RFI-36-47

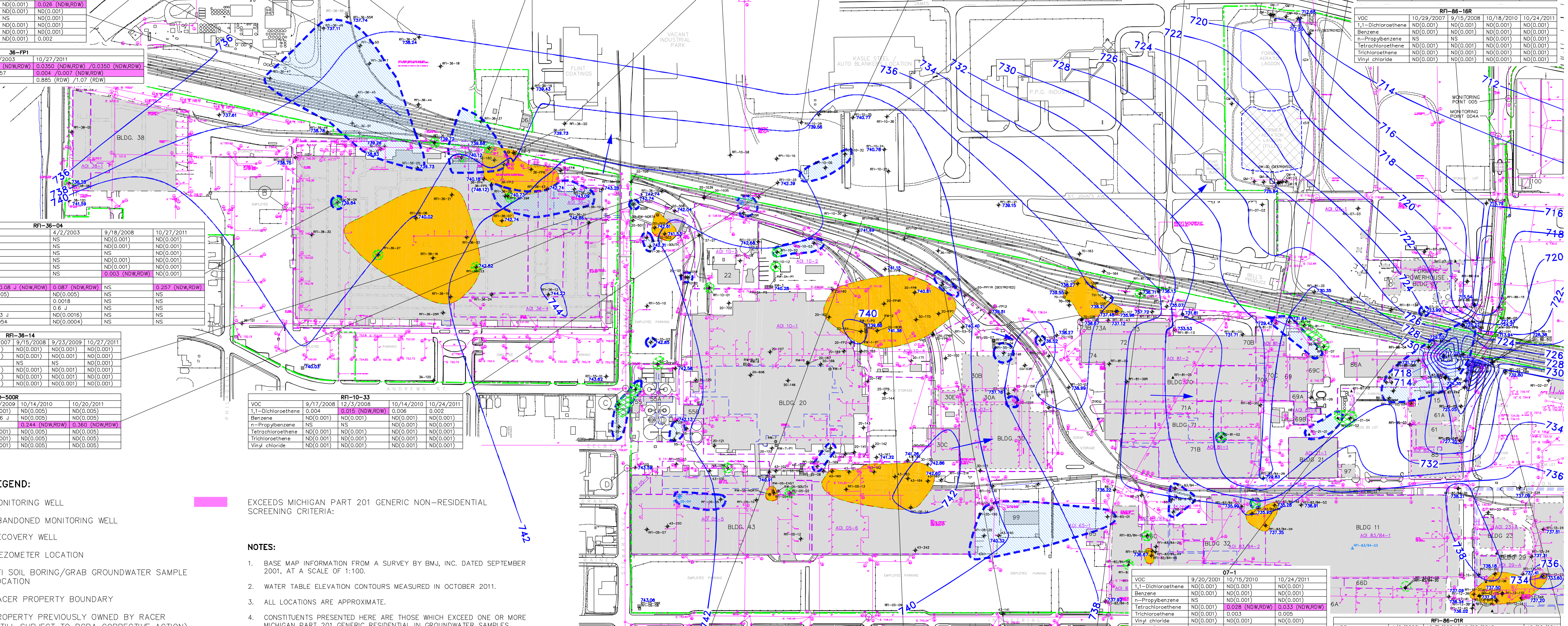
VOC	9/18/2008	12/4/2008	10/15/2010
1,1-Dichloroethene	0.031 (NDW,RDW)	ND(0.001)	0.026 (NDW,RDW)
Benzene	0.0003 J	ND(0.001)	ND(0.001)
n-Propylbenzene	NS	NS	ND(0.001)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	0.003 (NDW,RDW)	ND(0.001)	0.002

RFI-86-16R

VOC	10/29/2007	9/15/2008	10/18/2010	10/24/2011
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
n-Propylbenzene	NS	NS	ND(0.001)	ND(0.001)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)

36-FP1

Inorganic	6/14/2002	3/27/2003	10/27/2011
Arsenic	0.033 (NDW, RDW)	0.054 (NDW,RDW)	0.0350 (NDW,RDW) /0.0350 (NDW,RDW)
Lead	0.00047	0.00057	0.004 /0.007 (NDW,RDW)
Manganese	1.3 J (RDW)	0.084	0.885 (RDW) /1.07 (RDW)



RFI-36-04

VOC	6/18/2002	4/2/2003	9/18/2008	10/27/2011
1,1-Dichloroethene	NS /NS	NS	ND(0.001)	ND(0.001)
Benzene	NS /NS	NS	ND(0.001)	ND(0.001)
n-Propylbenzene	NS /NS	NS	NS	ND(0.001)
Tetrachloroethene	NS /NS	NS	ND(0.001)	ND(0.001)
Trichloroethene	NS /NS	NS	ND(0.001)	ND(0.001)
Vinyl chloride	NS /NS	NS	0.003 (NDW,RDW)	ND(0.001)
Inorganic				
Arsenic	0.08 (NDW,RDW) /0.08 J (NDW,RDW)	0.087 (NDW,RDW)	NS	0.257 (NDW,RDW)
Cyanide (total)	ND(0.005) /ND(0.005)	ND(0.005)	NS	NS
Lead	0.001 /0.00091	0.0018	NS	NS
Manganese	0.44 /0.56 J	0.6 J	NS	NS
Selenium	ND(0.0014) /0.0013 J	ND(0.0016)	NS	NS
Silver	ND(0.0004) /0.00054	ND(0.0004)	NS	NS

RFI-36-14

VOC	10/26/2007	9/15/2008	9/23/2009	10/27/2011
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
n-Propylbenzene	NS	NS	NS	ND(0.001)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)

20-500R

VOC	9/15/2008	9/23/2009	10/14/2010	10/20/2011
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.005)	ND(0.005)
Benzene	0.0004 J	0.0006 J	ND(0.005)	ND(0.005)
n-Propylbenzene	NS	NS	0.244 (NDW,RDW)	0.360 (NDW,RDW)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.005)	ND(0.005)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.005)	ND(0.005)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.005)	ND(0.005)

RFI-10-33

VOC	9/17/2008	12/3/2008	10/14/2010	10/24/2011
1,1-Dichloroethene	0.004	0.015 (NDW,RDW)	0.006	0.002
Benzene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
n-Propylbenzene	NS	NS	ND(0.001)	ND(0.001)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)

07-1

VOC	9/20/2001	10/15/2010	10/24/2011
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)	ND(0.001)
n-Propylbenzene	NS	ND(0.001)	ND(0.001)
Tetrachloroethene	ND(0.001)	0.028 (NDW,RDW)	0.033 (NDW,RDW)
Trichloroethene	ND(0.001)	0.003	0.005
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)
Inorganic			
Arsenic	NS	NS	NS
Cyanide (total)	0.002 J	NS	NS
Lead	NS	NS	NS
Manganese	NS	NS	NS
Selenium	NS	NS	NS
Silver	NS	NS	NS
Inorganic-Dissolved			
Arsenic	0.001 J	NS	NS
Cyanide (total)	0.0021 J	NS	NS
Lead	ND(0.0004)	NS	NS
Manganese	0.26	NS	NS
Selenium	ND(0.0014)	NS	NS
Silver	0.00041 J	NS	NS

RFI-86-01R

VOC	4/2/2003	10/7/2004	10/28/2010	10/25/2011
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001) /NS	ND(0.001)
Benzene	ND(0.001)	ND(0.001)	ND(0.001) /NS	ND(0.001)
n-Propylbenzene	NS	NS	ND(0.001) /NS	ND(0.001)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001) /NS	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001) /NS	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001) /NS	ND(0.001)
Inorganic				
Arsenic	0.0018	NS	NS /NS	NS
Cyanide (total)	ND(0.005)	NS	NS /NS	NS
Lead	0.0013	NS	ND(0.003) /ND(0.003)	ND(0.003)
Manganese	0.47 J	NS	0.019 /0.018	ND(0.005)
Selenium	0.0054	NS	NS /NS	NS
Silver	ND(0.0004)	NS	NS /NS	NS

RFI-10-26

VOC	10/26/2007	9/15/2008	10/14/2010	10/24/2011
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
n-Propylbenzene	NS	NS	ND(0.001)	ND(0.001)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Arsenic	NS	NS	NS	ND(0.002)
Lead	NS	NS	NS	0.008 (NDW,RDW)
Manganese	NS	NS	NS	0.014

RFI-10-24

VOC	9/15/2008	12/3/2008	10/14/2010	10/24/2011
1,1-Dichloroethene	ND(0.001)	ND(0.001)	0.003	0.001
Benzene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
n-Propylbenzene	NS	NS	ND(0.001)	ND(0.001)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)

20-FP10R

VOC	9/15/2008	9/23/2009	10/14/2010	10/24/2011
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Benzene	ND(0.001)	0.003	0.006 (NDW,RDW)	0.018 (NDW,RDW)
n-Propylbenzene	NS	NS	ND(0.001)	ND(0.001)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Trichloroethene	0.007 (NDW,RDW)	0.008 (NDW,RDW)	0.002	0.002
Vinyl chloride	0.0006 J	0.002	0.002	0.002

70-165

VOC	9/16/2008	9/24/2009	10/18/2010	10/24/2011
1,1-Dichloroethene	NS /NS	ND(0.001) /NS	ND(0.001) /NS	ND(0.001)
Benzene	NS /NS	ND(0.001) /NS	ND(0.001) /NS	ND(0.001)
n-Propylbenzene	NS /NS	NS /NS	ND(0.001) /NS	ND(0.001)
Tetrachloroethene	NS /NS	ND(0.001) /NS	ND(0.001) /NS	ND(0.001)
Trichloroethene	NS /NS	ND(0.001) /NS	ND(0.001) /NS	ND(0.001)
Vinyl chloride	NS /NS	ND(0.001) /NS	ND(0.001) /NS	ND(0.001)
Inorganic				
Arsenic	NS /NS	NS /NS	NS /NS	NS
Cyanide (total)	NS /NS	NS /NS	NS /NS	NS
Lead	0.09 (NDW,RDW) /0.092 (NDW,RDW)	0.0489 (NDW,RDW) /0.0492 (NDW,RDW)	0.381 J (NDW,RDW) /0.083 J (NDW,RDW)	NS
Manganese	NS /NS	NS /NS	NS /NS	NS
Selenium	NS /NS	NS /NS	NS /NS	NS
Silver	NS /NS	NS /NS	NS /NS	NS

LEGEND:

- MONITORING WELL
- ABANDONED MONITORING WELL
- RECOVERY WELL
- PIEZOMETER LOCATION
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- RACER PROPERTY BOUNDARY
- PROPERTY PREVIOUSLY OWNED BY RACER (STILL SUBJECT TO RCRA CORRECTIVE ACTION)
- APPROXIMATE AOI BOUNDARY
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- ESTIMATED AREA WHERE VOCs AND/OR SVOCs EXCEED MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA IN GROUNDWATER
- ESTIMATED AREA WHERE INORGANICS EXCEED MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA IN GROUNDWATER
- 742.52 GROUNDWATER ELEVATION (IN FEET)
- 726 GROUNDWATER ELEVATION CONTOUR (IN FEET)
- GENERALIZED FLOW DIRECTION
- (746.12) ANOMALOUS GROUNDWATER ELEVATION (IN FEET) NOT USED TO GENERATE GROUNDWATER ELEVATION CONTOURS
- EXCEEDS MICHIGAN PART 201 GENERIC NON-RESIDENTIAL SCREENING CRITERIA:

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. WATER TABLE ELEVATION CONTOURS MEASURED IN OCTOBER 2011.
3. ALL LOCATIONS ARE APPROXIMATE.
4. CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL IN GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
5. ALL CONCENTRATIONS PRESENTED IN MILLIGRAMS PER LITER (mg/L).
6. ND (1.0)-CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
7. DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
8. NS-NOT ANALYZED FOR THIS CONSTITUENT.
9. J-ESTIMATED CONCENTRATION.
10. D-CONCENTRATION BASED ON A DILUTED SAMPLE ANALYSIS.
11. RDW-EXCEEDS MICHIGAN PART 201 RESIDENTIAL DRINKING WATER CRITERIA.
12. GSI CRITERIA COMPARED TO SAMPLES LOCATED WITHIN 500 FEET OF THE FLINT RIVER.
13. ANALYTICAL DATA SHOWN ARE FROM MOST RECENT SAMPLING EVENT AT EACH LOCATION.
14. NDW – NON-RESIDENTIAL DRINKING WATER

0 250' 500'
GRAPHIC SCALE

ARCADIS

CITY: SYRACUSE, NY DIV/GROUP: ENV/IM-DV DB: G. STOWELL, P. LISTER PM/TM: M. MAKI TR: R. PIONK LYR: ON=*;OFF=*REF*, [SHD-BUILDING, [HIST_SB PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/14/2012 12:59 PM BY: POSENAUER, LISA
G:\ENVCAD\SYRACUSE\ACT\B0064410\2012\01202\DWG\2011CMIAR\64410C01.DWG LAYOUT: 9 SAVED: 3/12/2012 9:43 AM ACADVER: 18.1S (LMS TECH)
XREFS: 64410X01 64410X00 64410X6A 64410X02 64410X7A IMAGES: PROJECTNAME: ----

CITY: SYRACUSE, NY DIV/GROUP: ENV/IM-DV DB: G. STOWELL, L. FORAKER, P. LISTER PM/TM: M. MAKI TR: R. PIONK LYR: ON=*;OFF=*REF*, |SHD-BUILDING, |HIST_SB PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/12/2012 1:57 PM BY: POSENAUER, LISA
G:\ENVCAD\SYRACUSE\ACT\B0064410\2012\01202\DWG\2011CMIAR\64410C02.DWG LAYOUT: 10 SAVED: 3/12/2012 1:57 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ----
IMAGES: PROJECTNAME: ----
XREFS: 64410X01 64410X02 64410X00 64410X6A 64410X7A

RFI-17-02D				
VOC	9/10/2008	12/4/2008	9/22/2009	10/21/2011
Benzene	0.072 (NDW,RDW) /0.071 (NDW,RDW)	0.127 (NDW,RDW)	0.08 (NDW,RDW) /0.078 (NDW,RDW)	ND(0.001)
Naphthalene	NS /NS	NS	NS /NS	ND(0.005)
Trichloroethene	ND(0.001) /ND(0.001)	ND(0.001)	ND(0.001) /ND(0.001)	ND(0.001)
Vinyl chloride	0.001 /0.002	0.002 J	0.001 /0.001	ND(0.001)

RFI-84-09S				
VOC	9/11/2008	12/3/2008	10/19/2010	10/21/2011
Benzene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Naphthalene	NS	NS	ND(0.005)	ND(0.005)
Trichloroethene	0.0002 J	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	0.0004 J	ND(0.001)	ND(0.001)

RFI-84-12				
VOC	12/3/2008	9/23/2009	10/19/2010	10/21/2011
Benzene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Naphthalene	NS	NS	ND(0.005)	ND(0.005)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	0.002 J	0.002	ND(0.001)	ND(0.001)
Inorganic				
Cyanide (total)	NS	NS	NS	NS
Lead	NS	NS	NS	NS
Manganese	NS	NS	NS	NS
Selenium	NS	NS	ND(0.005)	ND(0.005)
Silver	NS	NS	NS	NS

RFI-84-11S				
VOC	3/17/2008	9/11/2008	10/19/2010	10/21/2011
Benzene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Naphthalene	NS	NS	ND(0.005)	ND(0.005)
Trichloroethene	0.001	0.002	0.002	0.001
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)

RFI-94-11			
VOC	9/12/2008	12/5/2008	10/18/2010
Benzene	ND(0.001)	ND(0.001) /ND(0.001)	ND(0.001)
Naphthalene	NS	NS /NS	ND(0.005)
Trichloroethene	ND(0.001)	ND(0.001) /ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001) /ND(0.001)	ND(0.001)

RFI-94-10	
VOC	10/25/2011
Benzene	ND(0.001)
Naphthalene	ND(0.005)
Trichloroethene	0.001
Vinyl chloride	ND(0.001)

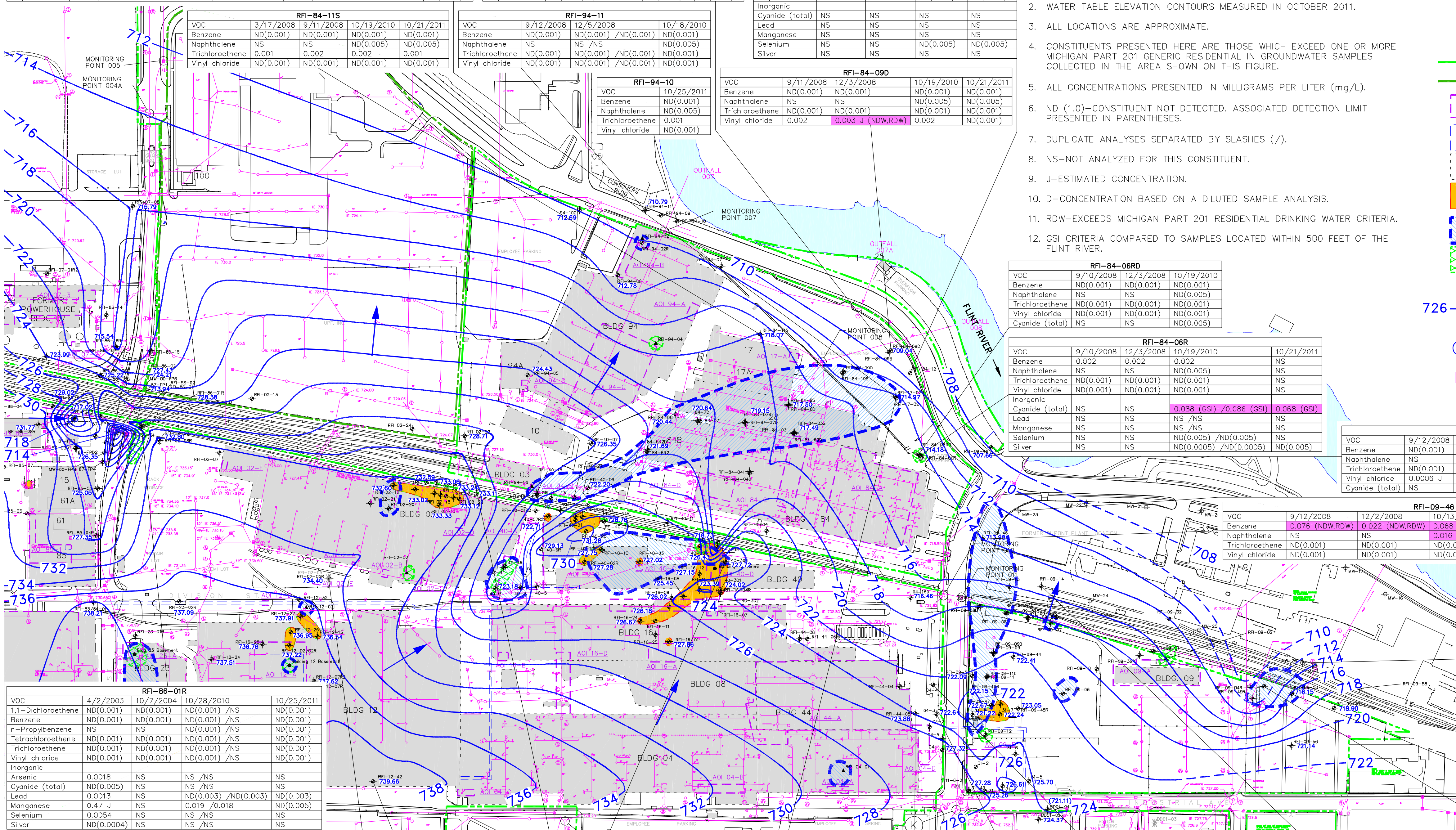
RFI-84-09D				
VOC	9/11/2008	12/3/2008	10/19/2010	10/21/2011
Benzene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Naphthalene	NS	NS	ND(0.005)	ND(0.005)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	0.002	0.003 J (NDW,RDW)	0.002	ND(0.001)

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED SEPTEMBER 2001, AT A SCALE OF 1:100.
2. WATER TABLE ELEVATION CONTOURS MEASURED IN OCTOBER 2011.
3. ALL LOCATIONS ARE APPROXIMATE.
4. CONSTITUENTS PRESENTED HERE ARE THOSE WHICH EXCEED ONE OR MORE MICHIGAN PART 201 GENERIC RESIDENTIAL IN GROUNDWATER SAMPLES COLLECTED IN THE AREA SHOWN ON THIS FIGURE.
5. ALL CONCENTRATIONS PRESENTED IN MILLIGRAMS PER LITER (mg/L).
6. ND (1.0)–CONSTITUENT NOT DETECTED. ASSOCIATED DETECTION LIMIT PRESENTED IN PARENTHESES.
7. DUPLICATE ANALYSES SEPARATED BY SLASHES (/).
8. NS–NOT ANALYZED FOR THIS CONSTITUENT.
9. J–ESTIMATED CONCENTRATION.
10. D–CONCENTRATION BASED ON A DILUTED SAMPLE ANALYSIS.
11. RDW–EXCEEDS MICHIGAN PART 201 RESIDENTIAL DRINKING WATER CRITERIA.
12. GSI CRITERIA COMPARED TO SAMPLES LOCATED WITHIN 500 FEET OF THE FLINT RIVER.

LEGEND:

- MONITORING WELL
- ABANDONED MONITORING WELL
- RECOVERY WELL
- PIEZOMETER LOCATION
- RFI SOIL BORING/GRAB GROUNDWATER SAMPLE LOCATION
- RACER PROPERTY BOUNDARY
- PROPERTY OWNED BY OTHERS
- APPROXIMATE AOI BOUNDARY
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- ESTIMATED CURRENT LIMITS OF MEASURABLE LNAPL
- ESTIMATED AREA WHERE VOCs AND/OR SVOCs EXCEED MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA IN GROUNDWATER
- ESTIMATED AREA WHERE INORGANICS EXCEED MICHIGAN PART 201 GENERIC INDUSTRIAL SCREENING CRITERIA IN GROUNDWATER
- 710.79 GROUNDWATER ELEVATION (IN FEET)
- 726 GROUNDWATER ELEVATION CONTOUR (IN FEET)
- GENERALIZED FLOW DIRECTION
- (710.79) ANOMALOUS GROUNDWATER ELEVATION (IN FEET) NOT USED TO GENERATE GROUNDWATER ELEVATION CONTOURS
- EXCEEDS MICHIGAN PART 201 GENERIC NON-RESIDENTIAL SCREENING CRITERIA:
- NDW – NON-RESIDENTIAL DRINKING WATER



RFI-84-06RD			
VOC	9/10/2008	12/3/2008	10/19/2010
Benzene	ND(0.001)	ND(0.001)	ND(0.001)
Naphthalene	NS	NS	ND(0.005)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)
Cyanide (total)	NS	NS	ND(0.005)

RFI-84-06R				
VOC	9/10/2008	12/3/2008	10/19/2010	10/21/2011
Benzene	0.002	0.002	0.002	NS
Naphthalene	NS	NS	ND(0.005)	NS
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	NS
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)	NS
Inorganic				
Cyanide (total)	NS	NS	0.088 (GSI) /0.086 (GSI)	0.068 (GSI)
Lead	NS	NS	NS /NS	NS
Manganese	NS	NS	NS /NS	NS
Selenium	NS	NS	ND(0.005) /ND(0.005)	NS
Silver	NS	NS	ND(0.0005) /ND(0.0005)	ND(0.005)

RFI-09-48				
VOC	9/12/2008	12/2/2008	10/18/2010	10/25/2011
Benzene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001) /ND(0.001)
Naphthalene	NS	NS	ND(0.005)	ND(0.005) /ND(0.005)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001) /ND(0.001)
Vinyl chloride	0.0006 J	0.0009 J	ND(0.001)	ND(0.001) /ND(0.001)
Cyanide (total)	NS	NS	NS	ND(0.005) /ND(0.005)

MW-23			
VOC	3/20/2003	10/4/2004	10/14/2010
Benzene	ND(0.001)	ND(0.001)	ND(0.001)
Naphthalene	NS	NS	ND(0.005)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)
Inorganic			
Cyanide (total)	NS	NS	NS
Lead	NS	NS	NS
Manganese	NS	NS	NS
Selenium	NS	ND(0.005)	NS
Silver	NS	NS	NS

RFI-09-46				
VOC	9/12/2008	12/2/2008	10/13/2010	10/25/2011
Benzene	0.076 (NDW,RDW)	0.022 (NDW,RDW)	0.068 (NDW,RDW) /0.064 (NDW,RDW)	0.028 (NDW,RDW)
Naphthalene	NS	NS	0.016 (GSI) /0.015 (GSI)	0.018 (GSI)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001) /ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001) /ND(0.001)	ND(0.001)

MW-26			
VOC	3/24/2003	10/5/2004	2/28/2005
Benzene	ND(0.001)	ND(0.001)	NS
Naphthalene	NS	NS	NS
Trichloroethene	ND(0.001)	ND(0.001)	NS
Vinyl chloride	ND(0.001)	ND(0.001)	NS
Inorganic			
Cyanide (total)	NS	NS	NS
Lead	NS	NS	0.004
Manganese	NS	NS	NS
Selenium	NS	NS	NS
Silver	NS	NS	NS
Inorganic–Dissolved			
Cyanide (total)	NS	NS	NS
Lead	NS	NS	0.002
Manganese	NS	NS	NS
Selenium	NS	NS	NS
Silver	NS	NS	NS

RFI-09-53				
VOC	9/12/2008	9/24/2009	10/18/2010	10/20/2011
Benzene	0.0004 J	0.0001 J	ND(0.001)	ND(0.001)
Naphthalene	NS	NS	ND(0.005)	ND(0.005)
Trichloroethene	0.104 (NDW,RDW)	0.001	0.045 (NDW,RDW)	0.075 (NDW,RDW)
Vinyl chloride	0.023 (NDW,RDW)	0.003 (NDW,RDW)	0.008 (NDW,RDW)	0.032 (NDW,RDW)

RFI-09-04R				
VOC	11/14/2007	9/12/2008	10/18/2010	10/20/2011
Benzene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Naphthalene	NS	NS	ND(0.005)	ND(0.005)
Trichloroethene	0.01 (NDW,RDW)	0.009 (NDW,RDW)	0.008 (NDW,RDW)	0.010 (NDW,RDW)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)

0 200' 400'
APPROXIMATE GRAPHIC SCALE

RFI-86-01R				
VOC	4/2/2003	10/7/2004	10/28/2010	10/25/2011
1,1-Dichloroethene	ND(0.001)	ND(0.001)	ND(0.001) /NS	ND(0.001)
Benzene	ND(0.001)	ND(0.001)	ND(0.001) /NS	ND(0.001)
n-Propylbenzene	NS	NS	ND(0.001) /NS	ND(0.001)
Tetrachloroethene	ND(0.001)	ND(0.001)	ND(0.001) /NS	ND(0.001)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001) /NS	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001) /NS	ND(0.001)
Inorganic				
Arsenic	0.0018	NS	NS /NS	NS
Cyanide (total)	ND(0.005)	NS	NS /NS	NS
Lead	0.0013	NS	ND(0.003) /ND(0.003)	ND(0.003)
Manganese	0.47 J	NS	0.019 /0.018	ND(0.005)
Selenium	0.0054	NS	NS /NS	NS
Silver	ND(0.0004)	NS	NS /NS	NS

RFI-02-05/05R			
VOC	9/18/2001	12/16/2002	10/27/2011
Benzene	ND(0.001) /ND(0.001)	NS	ND(0.001)
Naphthalene	NS /NS	NS	ND(0.005)
Trichloroethene	ND(0.001) /ND(0.001)	NS	ND(0.001)
Vinyl chloride	ND(0.001) /ND(0.001)	NS	ND(0.001)
PCB			
Total PCBs	0.000041 J /0.00015	NS	NS
PCB–Dissolved			
Total PCBs	0.00018 /0.000071 J	NS	NS
Inorganic			
Cyanide (total)	0.0017 J /0.0016 J	NS	NS
Lead	0.00065 J /0.00034 J	0.0021 J	NS
Manganese	1.4 J (RDW) /1.5 (RDW)	2 (RDW)	NS
Selenium	ND(0.0014) /0.00084 J	0.0022 J	NS
Silver	ND(0.0004) /ND(0.0004)	ND(0.0004 J)	NS
Inorganic–Dissolved			
Cyanide (total)	0.00098 J /0.0019 J	NS	NS
Lead	ND(0.0004) /ND(0.0004)	NS	NS
Manganese	0.88 (RDW) /0.88 (RDW)	NS	NS
Selenium	ND(0.0014) /ND(0.0014)	NS	NS
Silver	ND(0.0004 J) /ND(0.0004 J)	NS	NS

RFI-12-42	
VOC	10/27/2011
Benzene	ND(0.001)
Naphthalene	ND(0.026)
Trichloroethene	ND(0.001)
Vinyl chloride	ND(0.001)

RFI-02-22			
VOC	4/5/2005	10/15/2010	10/25/2011
Benzene	0.0002 J	ND(0.001)	ND(0.001)
Naphthalene	NS	ND(0.005)	ND(0.005)
Trichloroethene	0.0002 J	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)

40-304				
VOC	10/31/2007	9/11/2008	10/18/2010	10/25/2011
Benzene	NS	NS	ND(0.001)	ND(0.001) /ND(0.001)
Naphthalene	NS	NS	ND(0.005)	ND(0.005) /ND(0.005)
Trichloroethene	NS	NS	ND(0.001)	ND(0.001) /ND(0.001)
Vinyl chloride	NS	NS	0.004 (NDW,RDW)	0.003 (NDW,RDW)/0.005 (NDW,RDW)
PCB				
Total PCBs	ND(0.0001)	ND(0.0001) /ND(0.0001)	ND(0.0001) /ND(0.0001)	ND(0.0001) /ND(0.0001)

RFI-17-02				
VOC	9/10/2008	12/4/2008	10/19/2010	10/21/2011
Benzene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Naphthalene	NS	NS	ND(0.005)	ND(0.005)
Trichloroethene	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001)	ND(0.001)	ND(0.001)
Inorganic				
Cyanide (total)	NS	NS	NS	NS
Lead	NS	NS	NS	NS
Manganese	NS	NS	NS	NS
Selenium	NS	NS	ND(0.005)	ND(0.005)
Silver	NS	NS	NS	NS

RFI-44-05				
VOC	3/24/2003	10/5/2004	10/26/2010	10/21/2011
Benzene	NS /NS	ND(0.001)	NS	NS
Naphthalene	NS /NS	NS	NS	NS
Trichloroethene	NS /NS	ND(0.001)	NS	NS
Vinyl chloride	NS /NS	ND(0.001)	NS	NS
PCB				
Total PCBs	ND(0.0001) /ND(0.0001)	NS	NS	NS
Inorganic				
Cyanide (total)	0.019	NS	ND(0.005)	ND(0.005)
Lead	0.0016	ND(0.003)	NS	NS
Manganese	0.14	NS	NS	NS
Selenium	0.0096	ND(0.005)	NS	NS
Silver	ND(0.0004)	NS	NS	NS

RFI-09-14			
VOC	9/10/2008	12/2/2008	10/13/2010
Benzene	ND(0.001)	ND(0.001) /ND(0.001)	ND(0.001)
Naphthalene	NS	NS /NS	ND(0.005)
Trichloroethene	ND(0.001)	ND(0.001) /ND(0.001)	ND(0.001)
Vinyl chloride	ND(0.001)	ND(0.001) /ND(0.001)	ND(0.001)

04-3			
VOC	9/17/2001	10/26/2010	10/21/2011
Benzene	ND(0.001)	NS	NS
Naphthalene	NS	NS	NS
Trichloroethene	ND(0.001)	NS	NS
Vinyl chloride	ND(0.001)	NS	NS
PCB			
Total PCBs	ND(0.00012)	NS	NS
PCB–Dissolved			
Total PCBs	ND(0.00011)	NS	NS
Inorganic			
Cyanide (total)	ND(0.005)	ND(0.005)	ND(0.005)
Lead	NS	NS	NS
Manganese	NS	NS	NS
Selenium	NS	NS	NS
Silver	NS	NS	NS
Inorganic–Dissolved			
Cyanide (total)	ND(0.005)	NS	NS
Lead	ND(0.0004)	NS	NS
Manganese	0.055	NS	NS
Selenium	ND(0.0014)	NS	NS
Silver	ND(0.0004)	NS	NS

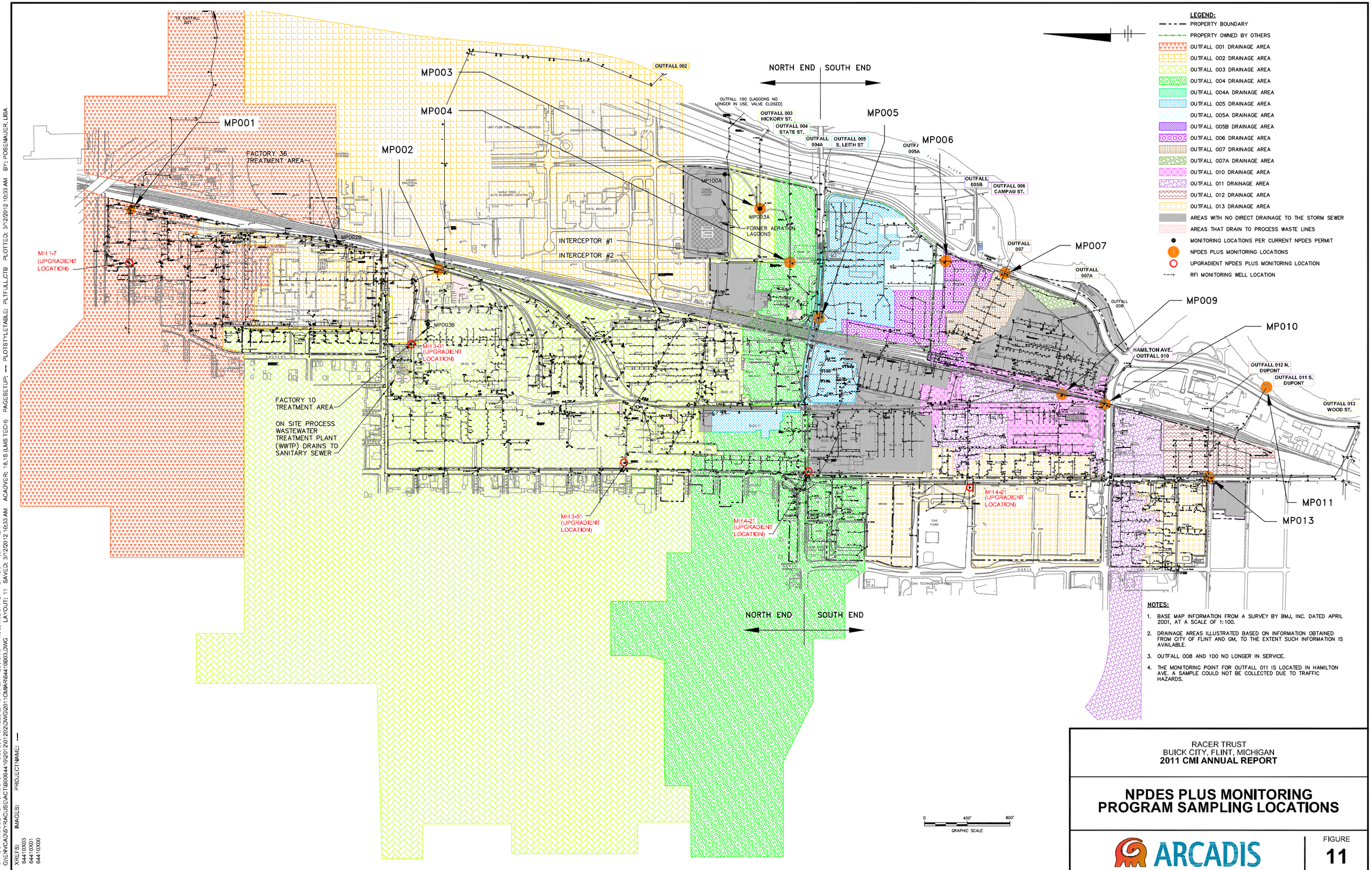
04-4				
VOC	9/17/2001	3/27/2003	10/28/2010	10/21/2011
Benzene	ND(0.001)	NS	NS	NS
Naphthalene	NS	NS	NS	NS
Trichloroethene	ND(0.001)	NS	NS	NS
Vinyl chloride	ND(0.001)	NS	NS	NS
PCB				
Total PCBs	ND(0.00011)	ND(0.00011)	NS	NS
PCB–Dissolved				
Total PCBs	ND(0.0001)	NS	NS	NS
Inorganic				
Cyanide (total)	ND(0.005)	NS	ND(0.005)	ND(0.005)
Lead	NS	NS	NS	NS
Manganese	NS	NS	NS	NS
Selenium	NS	NS	NS	NS
Silver	NS	NS	NS	NS
Inorganic–Dissolved				
Cyanide (total)	ND(0.005)	NS	NS	NS
Lead	ND(0.0004)	NS	NS	NS
Manganese	0.037	NS	NS	NS
Selenium	0.0028	NS	NS	NS
Silver	ND(0.0004)	NS	NS	NS

RACER TRUST
BUICK CITY, FLINT, MICHIGAN
2011 CMI ANNUAL REPORT

GROUNDWATER ANALYTICAL DATA - SOUTHEND

ARCADIS

FIGURE
10



NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ, INC. DATED APRIL 2001, AT A SCALE OF 1:100.
2. DRAINAGE AREAS ILLUSTRATED BASED ON INFORMATION OBTAINED FROM CITY OF FLINT AND GM, TO THE EXTENT SUCH INFORMATION IS AVAILABLE.
3. OUTFALL 008 AND 100 NO LONGER IN SERVICE.
4. THE MONITORING POINT FOR OUTFALL 011 IS LOCATED IN HAMILTON AVE. A SAMPLE COULD NOT BE COLLECTED DUE TO TRAFFIC HAZARDS.

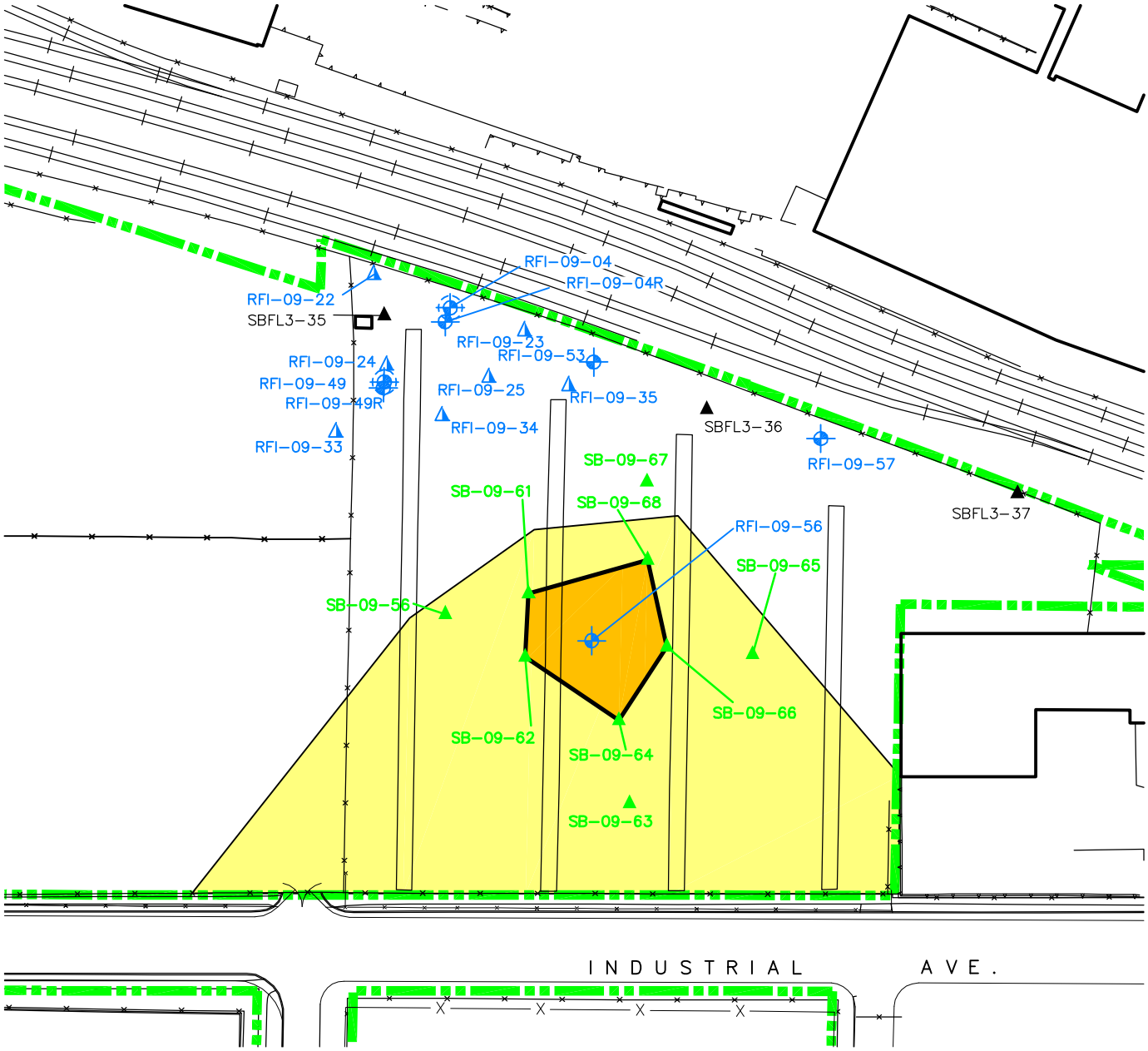
RACER TRUST
BUICK CITY, FLINT, MICHIGAN
2011 CMI ANNUAL REPORT

NPDES PLUS MONITORING PROGRAM SAMPLING LOCATIONS

ARCADIS

FIGURE
11

CITY: SYRACUSE DIV/GROUP: 141 DB: G. STOWELL L. FORAKER LD: GMS PM: L. McBURNEY LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\B0064410\2012\01\2012\DWG\2011CMIAR\64410B03.DWG LAYOUT: 11 SAVED: 3/12/2012 10:33 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/12/2012 10:33 AM BY: POSENAUER, LISA
XREFS: 64410X03 64410X01 64410X00 IMAGES: PROJECTNAME: ----



LEGEND:

- RACER PROPERTY BOUNDARY
- SOIL BORING SEPTEMBER 2011
- HISTORICAL SOIL BORING
- RFI SOIL BORING LOCATION
- RFI MONITORING WELL LOCATION
- DECOMMISSIONED/DESTROYED RFI MONITORING WELL
- CURRENT AREA REQUIRING RESTRICTIONS AND ENGINEERING CONTROLS
- REVISED AREA REQUIRING RESTRICTIONS AND ENGINEERING CONTROLS

NOTES:

1. BASE MAP INFORMATION FROM A SURVEY BY BMJ INC., DATED APRIL 2001, AT A SCALE OF 1:100.
2. ALL LOCATIONS ARE APPROXIMATE.

0 100' 200'

APPROXIMATE GRAPHIC SCALE

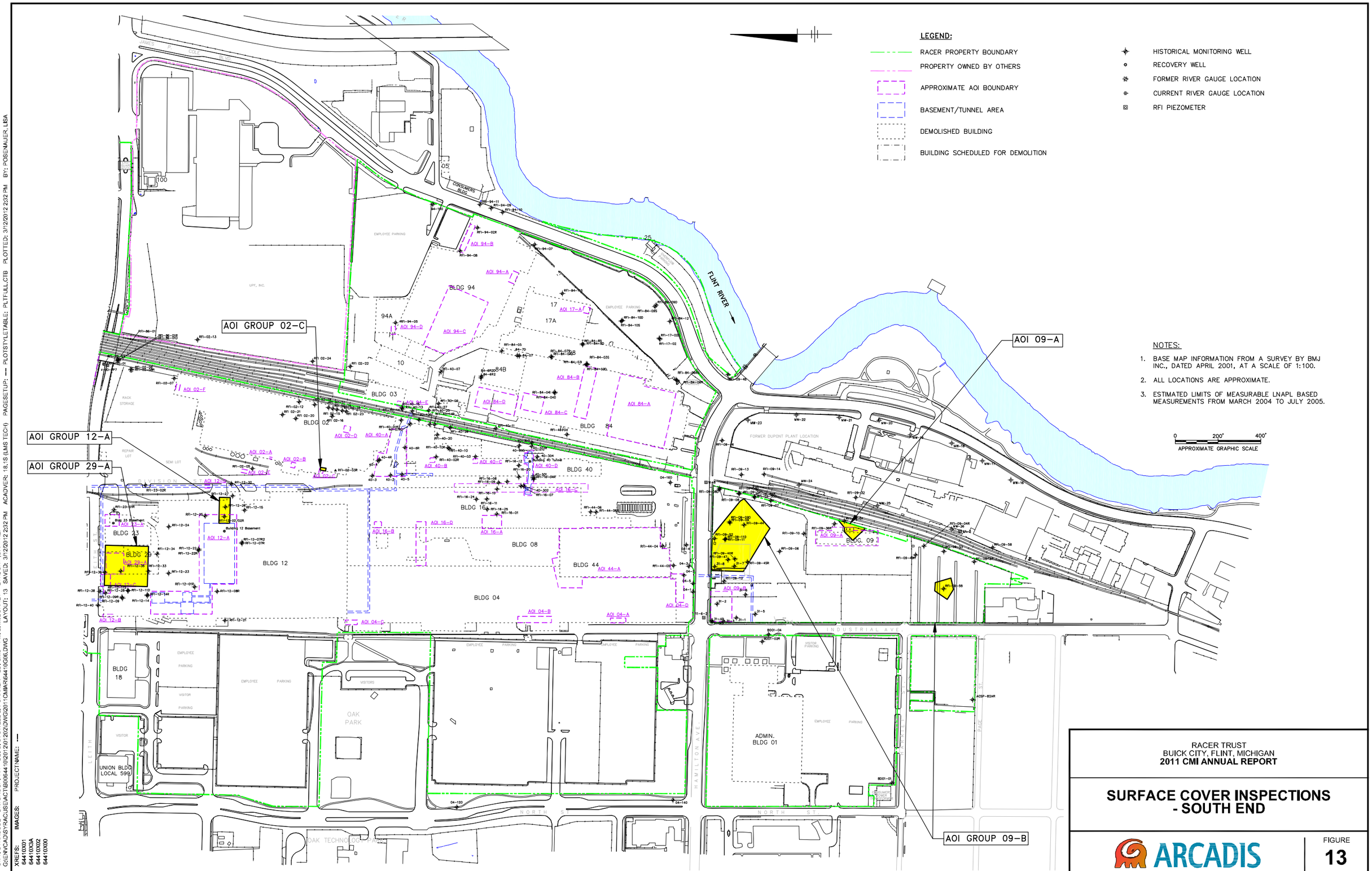
RACER TRUST
BUICK CITY, FLINT, MICHIGAN
2011 CMI ANNUAL REPORT

LEAD SOIL SAMPLING LOCATIONS AND AREA REQUIRING RESTRICTIONS AND ENGINEERING CONTROLS

ARCADIS

FIGURE
12

CITY:SYRACUSE DIV/GROUP:ENVCAD DB:NSMITHGALL LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\B0064410\2012\01202\DWG\2011CMIAR\64410G05.DWG LAYOUT: 12 SAVED: 3/12/2012 9:47 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/12/2012 9:47 AM BY: POSENAUER, LISA
XREFS: 64410X01 IMAGES: PROJECTNAME: ---



RACER TRUST
BUICK CITY, FLINT, MICHIGAN
2011 CMI ANNUAL REPORT

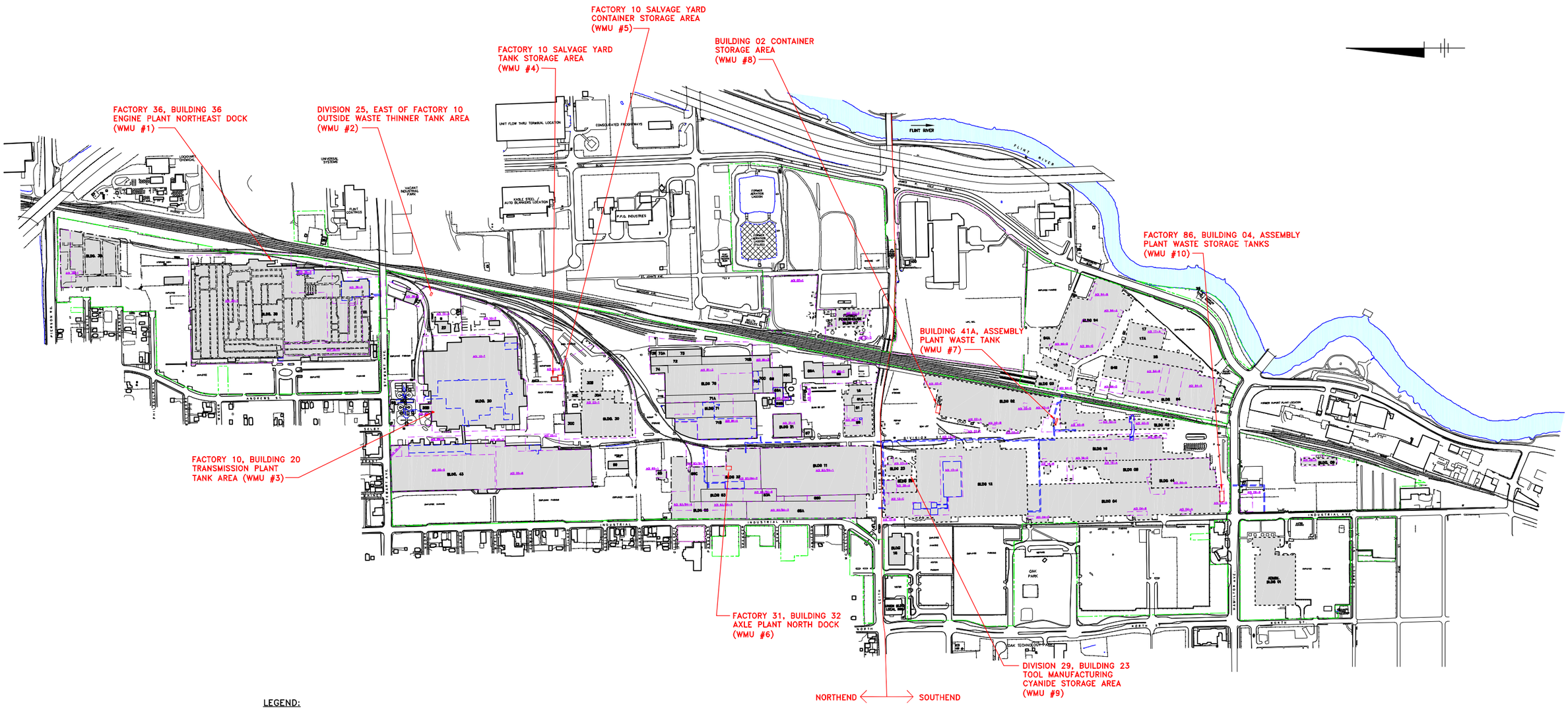
SURFACE COVER INSPECTIONS - SOUTH END

ARCADIS

FIGURE
13

CITY: SYRACUSE DIV/GROUP: 141 DB: G. STOWELL L. FORAKER LD: GMS PM: L. McBURNEY LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\B0064410\2012\DWG\2011CMIAR\64410G06.DWG LAYOUT: 13 SAVED: 3/12/2012 2:32 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/12/2012 2:32 PM BY: POSENAUER, LISA

XREFS: 64410X01 64410X3A 64410X02 64410X00
IMAGES:
PROJECTNAME: ----



LEGEND:

- PROPERTY BOUNDARY
- PROPERTY OWNED BY OTHERS
- APPROXIMATE AOI BOUNDARY
- BASEMENT/TUNNEL AREA
- DEMOLISHED BUILDING
- BUILDING CURRENTLY IDLED
- APPROXIMATE WMU AREA

NOTES:

1. IN ADDITION TO THE EXISTING HISTORICAL SITE DATA, THE WASTE MANAGEMENT UNIT LOCATIONS ARE ALSO BASED ON GIS DATA PROVIDED BY THE MDNRE IN JANUARY 2010.
2. BASE MAP INFORMATION FROM A SURVEY BY BMJ INC., DATED APRIL 2001, AT A SCALE OF 1:100.

0 400' 800'
GRAPHIC SCALE

RACER TRUST
BUICK CITY, FLINT, MICHIGAN
2011 CMI ANNUAL REPORT

Historic WMU Site Plan

ARCADIS

FIGURE
14

CITY: SYRACUSE DIV/GROUP: ENVCAD DB: G. STOWELL LD: G. STOWELL PIC: L. McBURNEY PM: C. PETERS TM: W. WHITE LYR: ON=*;OFF=*REF*
G:\ENVCAD\SYRACUSE\ACT\B0064410\2012\2012DWG\2011CMIAR\64410B01.DWG LAYOUT: 14 SAVED: 3/12/2012 9:57 AM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 3/12/2012 9:57 AM BY: POSENAUER, LISA
XREFS: 64410X01 64410X02 64410X00 IMAGES: PROJECTNAME: ----

ARCADIS

Appendix A

11253 91st Ave N
Maple Grove, MN 55369
763-424-4803
FAX: 763-424-9452

-Direct Sensing Report-

Client:	**ARCADIS**
Project Name:	**Buick City**
Location:	**Flint, MI**
Project Number:	**135-MNDS-11UV**

The analysis and opinions expressed in this report are based upon data obtained from UVOST logs generated (and samples collected for emulations if applicable) at the location specified, and from other information discussed in this report. Exceptions, if any, are discussed in the accompanying discussion if applicable. This report is prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted practices. Reported results shall not be reproduced, except in full, without written approval of the lab. The sample results relate only to the analytes of interest tested. No warranties, expressed or implied are intended or made.

I certify that the data contained in this final report has been generated and reviewed in accordance with approved methods and our Standard Operating Procedure. Release of this final report is authorized by Laboratory management, which is verified by the following signature.

_____ _____

Approval Signature Date

LIF SYSTEM DESCRIPTION & ANALYSIS

UVOST

Fluorescence is a property of some compounds where absorbed UV light stimulates the emission of photons (light) of a longer wavelength relative to the source emission. The release of the photons can be used to detect small amounts of substance (i.e. polycyclic aromatic hydrocarbons or PAHs) in a larger matrix (soil). This method of detection has been used in laboratories for decades. Now, with the availability of lasers and optical fibers, this technology can be applied down hole in the field.

The UVOST system sends light (via 308 nm laser) through a fiber optic cable strung within probe rods. The light, reflected by a parabolic mirror, then exits through a sapphire window in the side of the probe. As the probe is advanced, the soil is exposed to the UV laser light. If PAHs are present (compounds in POLs that fluoresce, i.e. LNAPL) longer wavelength light is emitted by the contaminants. This "signal" light is transmitted through a fiber, back up hole to be analyzed. Responses are indicated in real-time on a graph of signal vs. depth. The UVOST log displays "color mixed" signal logs (contributions from 4 channels) and waveforms ("fingerprint" of multi-wavelength) to aid in identification of the contaminant present.

Prior to every log the UVOST system is checked for optical quality by observing the background signal for sources of signal in the fiber, filter, mirror and sapphire window. Also, the reference emitter (a standard proprietary NAPL mixture called the "RE") is placed on the window to determine the qualitative and semi-quantitative properties of the laser system. This is to assure that the RE response has the correct shape and intensity and that the UVOST system is ready to log. Typically the RE will fall between 10,000 and 12,000 pVs (picovolt-seconds, a measure of waveform area) and the background can vary from 0.1% to 1% (area of about 0-100 pVs). It is important to remember that the relationship between the NAPL in the ground and the RE depends on that particular NAPL. The calibration of the system is not to a concentration, but to a known fluorescence signature.

EC (Electrical Conductivity)

Electrical Conductivity (EC) is a measure of the soils ability to conduct an electrical current between two dipoles on the LIF/EC probe. Conductivity is the reciprocal of electrical resistivity and has the units (in our application) of millisiemens per meter (mS/m). Since soil is in the pathway of the charge flow, the grain size can be determined by comparing the EC log to a soil boring. Conductivity readings in the 100s indicate smaller grain (size such as clay). Larger grain size (sand and gravels) are typically in the 10s of mS/m range. Prior to every log the EC point of the UVOST probe is checked for proper operation by performing a voltage test with a voltage meter and a conductivity test with a test block.

UVOST Log Reference Guide

Main Plot :
Signal (total fluorescence) versus depth where signal is relative to the Reference Emitter (RE).The total area of the waveform is divided by the total area of the Reference Emitter yielding the %RE.This %RE scales with the NAPL fluorescence. The fill color is based on relative contribution of each channel's area to the total waveform area (see callout waveform).The channel-to-color relationship and corresponding wavelengths are given in the upper right corner of the main plot.

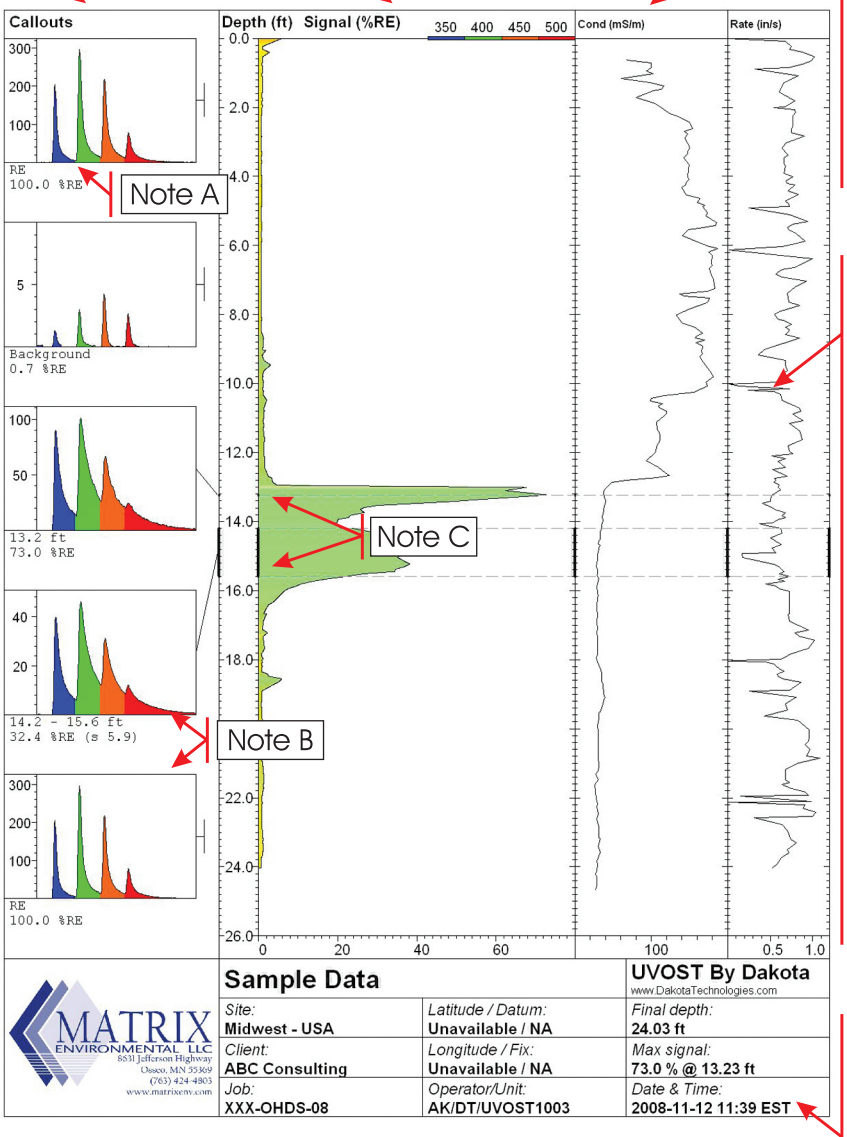
Conductivity Plot :
The Electrical Conductivity (EC) of the soil can be logged simultaneously with the UVOSTdata. EC often provides insight into the stratigraphy.
Note the drop in EC from 10 - 13 ft, indicating a shift from consolidated to unconsolidated stratigraphy.This correlates with the observed NAPL distribution.

Callouts :
Waveforms from selected depths or depth ranges showing the multi-wavelength waveform for that depth.

The four peaks are due to fluorescence at four wavelengths and referred to as "channels". Each channel is assigned a color.

Various NAPLs will have a unique waveform "fingerprint" due to the relative amplitude of the four channels and/or broadening of one or more channels.

Basic waveform statistics and any operator notes are given below the callout.



Rate Plot :
The rate of probe advancement. ~ 0.8 in (2cm) per second is preferred.

A noticeable decrease in the rate of advancement may be indicative of difficult probing conditions (gravel, angular sands, etc.).

Notice that this log was terminated arbitrarily, not due to "refusal", which would have been indicated by a sudden rate drop at final depth.

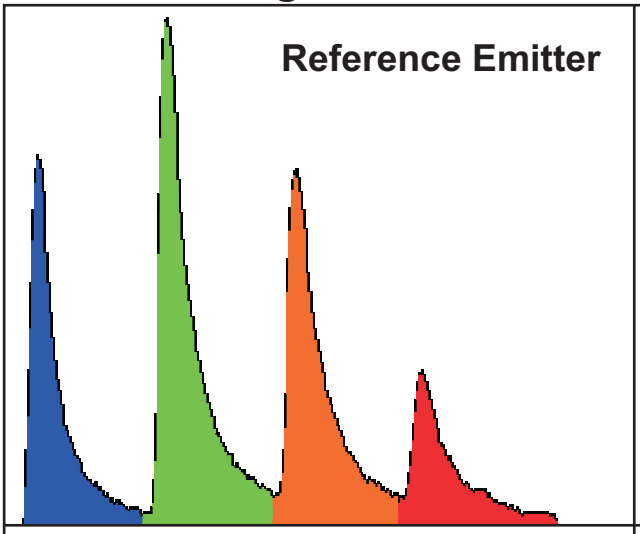
Info Box :
Contains pertinent log info including name and location.

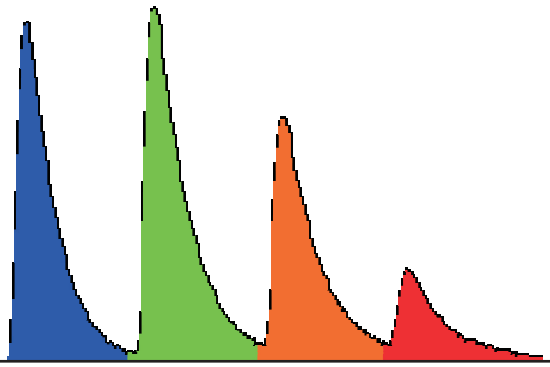
NoteA:
Time is along the x axis. No scale is given, but it is a consistent 320ns wide.
The y axis is in mV and directly corresponds to the amount of light striking the photodetector.

Note B :
These two waveforms are clearly different.The first is weathered diesel from the log itself while the second is the Reference Emitter (a blend of NAPLs) always taken before each log for calibration.

Note C :
Callouts can be a single depth (see 3rd callout) or a range (see 4th callout).The range is noted on the depth axis by a bold line. When the callout is a range, the average and standard deviation in %RE is given below the callout.

Waveform Signal Calculation



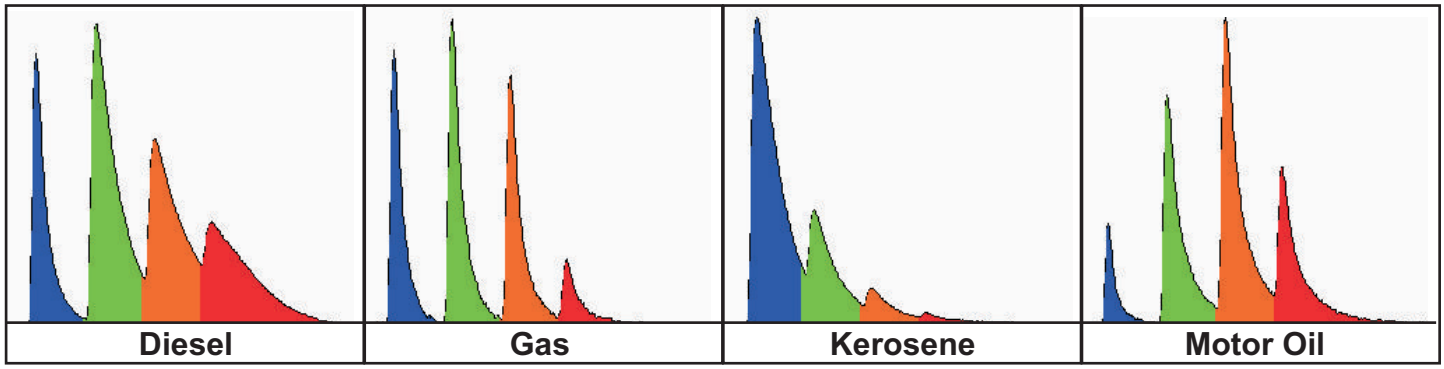


CH1		CH2		CH3		CH4		Total	***Channel***	CH1		CH2		CH3		CH4		Total
4820	+	8108	+	6249	+	2984	=	**22161**	***Area (pVs)***	4923	+	5743	+	4166	+	1735	=	**16587**
21.7		36.6		28.2		13.5		**100%**	***Percent RE***	22.3		25.9		18.8		7.8		**75%**

Data Files

***.lif.raw.bin**	Raw data file. Header is ASCII format and contains information stored when the file was initially written (e.g. date, total depth, max signal, gps, etc., and any information entered by the operator). All raw waveforms are appended to the bottom of the file in a binary format.
***.lif.plt**	Stores the plot scheme history (e.g. callout depths) for associated Raw file. Transfer along with the Raw file in order to recall previous plots.
***.lif.jpg**	A jpg image of the OST log including the main signal vs. depth plot, callouts, information, etc.
***.lif.dat.txt**	Data export of a single Raw file. ASCII tab delimited format. No string header is provided for the columns (to make importing into other programs easier). Each row is a unique depth reading. The columns are: Depth, Total Signal (%RE), Ch1%, Ch2%, Ch3%, Ch4%, Rate, Conductivity Depth, Conductivity Signal. Summing channels 1 to 4 yields the Total Signal.
***.lif.sum.txt**	A summary file for a number of Raw files. ASCII tab delimited format. The file contains a string header. The summary includes one row for each Raw file and contains information for each file including: the file name, gps coordinates, max depth, max signal, and depth at which the max signal occured.
***.lif.log.txt**	An activity log generated automatically located in the OST application directory in the 'log' subfolder. Each OST unit the computer operates will generate a separate log file per month. A log file contains much of the header information contained within each separate Raw file, including: date, total depth, max signal, etc.

Common Waveforms (highly dependent on soil, weathering, etc.)



Buick City
Area 02

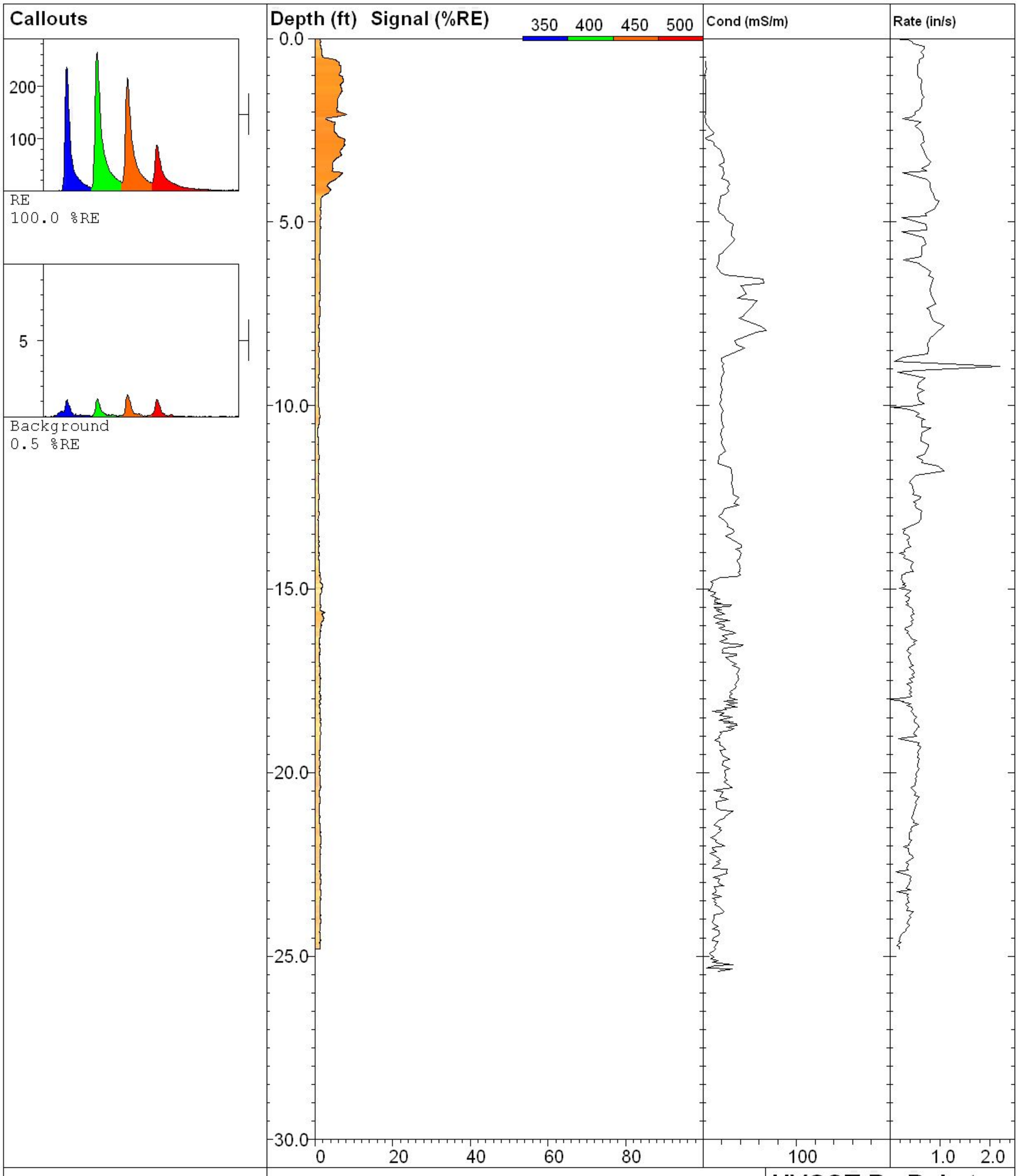
11253 91st Avenue North
Maple Grove, Minnesota
(763) 424-4803
fax (763) 424-9452

Client:	ARCADIS
Contact:	Megan Reightler
Services:	UVOST Logging
Date:	10/10/2011 - 10/29/2011
Project:	Buick City
Project #:	135-MNDS-11UV
Address:	Flint, MI

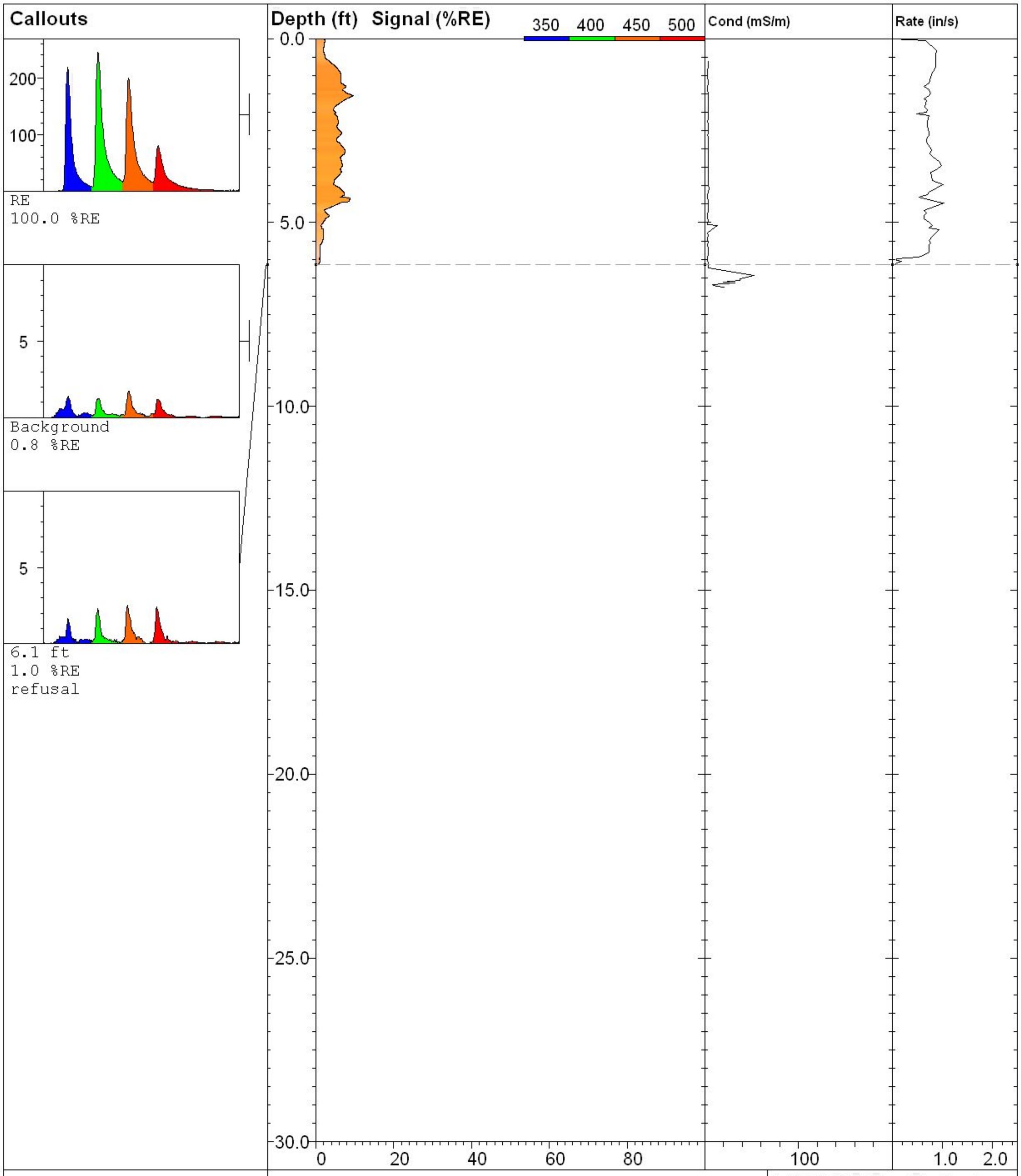
UVOST Log Summary

File	Date/Time	Latitude	Longitude	Final Depth *(ft)*	Max Signal *(%RE)*	Max. Signal Depth *(ft)*	Initial RE Area *(pVs)*	Background Area *(pVs)*	Fluorescence Top - Bottom *(ft)*
LIF-02-023	10/11/2011 15:50	NA	NA	24.8	8	2.1	11391	61	All in top 5'
LIF-02-024	10/11/2011 16:29	NA	NA	6.1	10	1.6	11456	89	All in top 5'
LIF-02-025	10/12/2011 8:52	NA	NA	27.4	3	3.5	11725	106	All in top 5'
LIF-02-026	10/13/2011 13:58	NA	NA	20.0	3	1.1	11847	21	All in top 5'
LIF-02-027	10/13/2011 14:55	NA	NA	22.4	2	12.5	11280	15	All in top 5'
LIF-02-028	10/22/2011 11:41	NA	NA	13.9	11	4.6	11793	80	All in top 5'

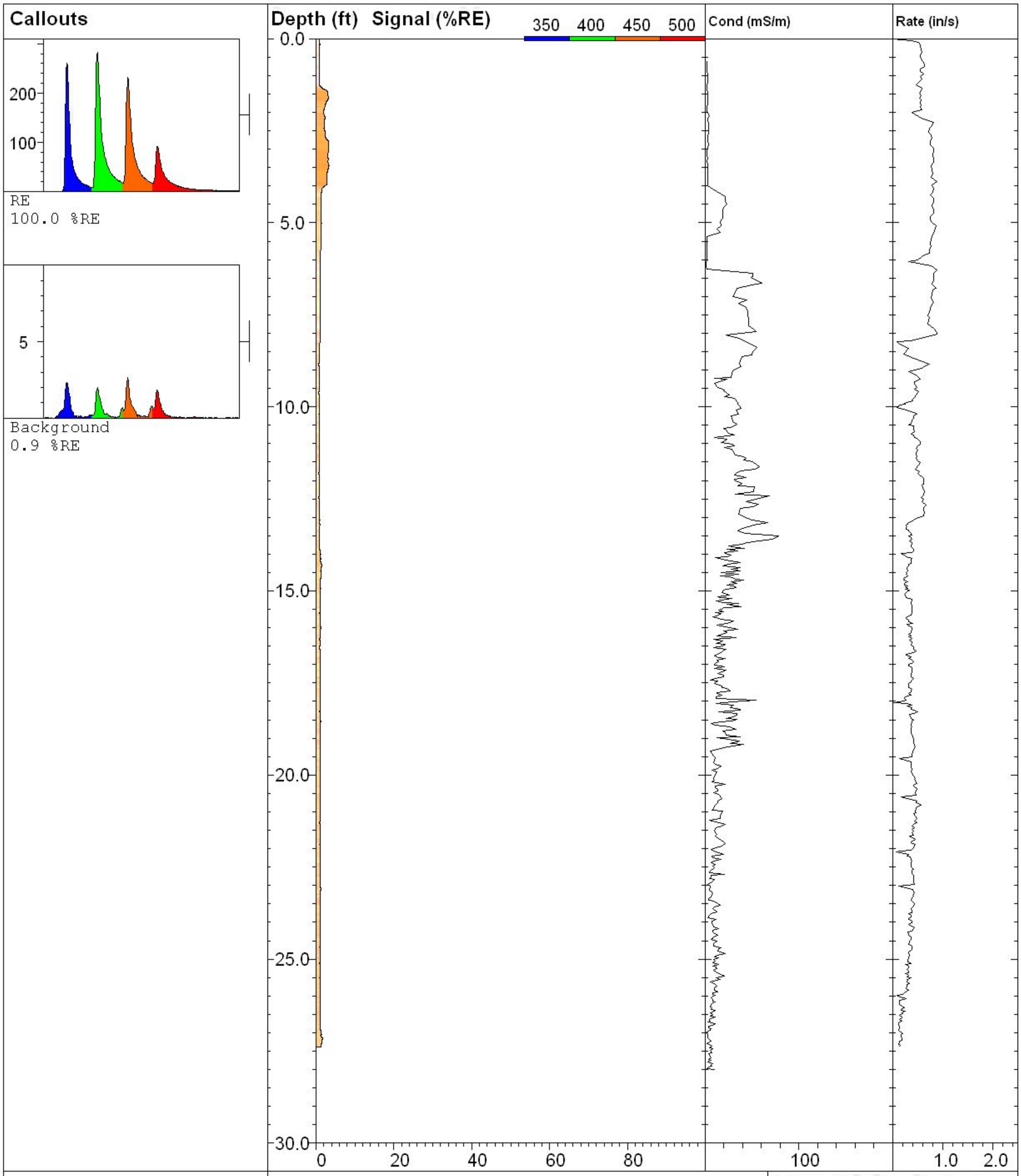
UVOST LOGS
@ 100% RE



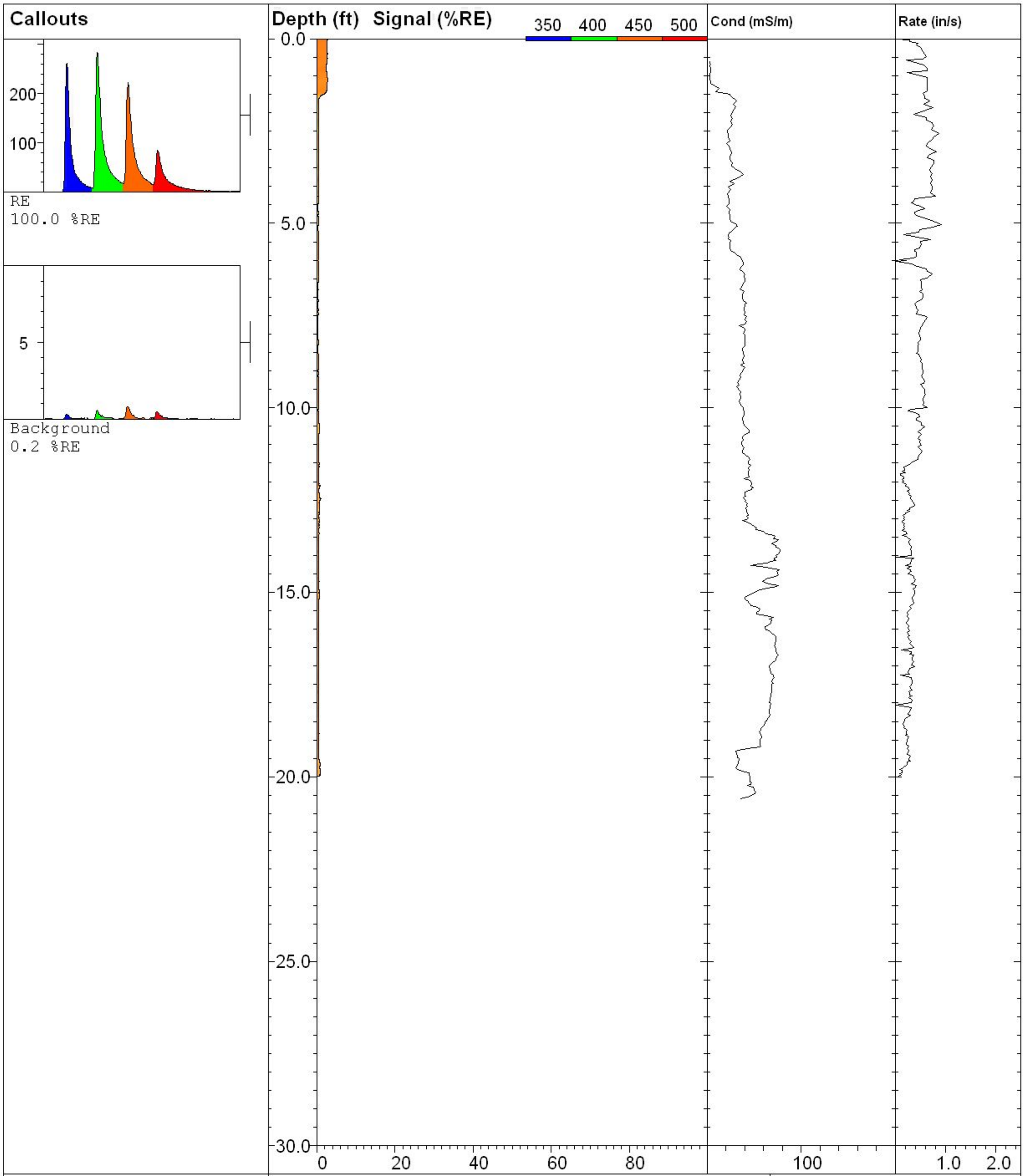
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-02-023**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **24.80 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **8.2 % @ 2.07 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-11 15:50 CDT**



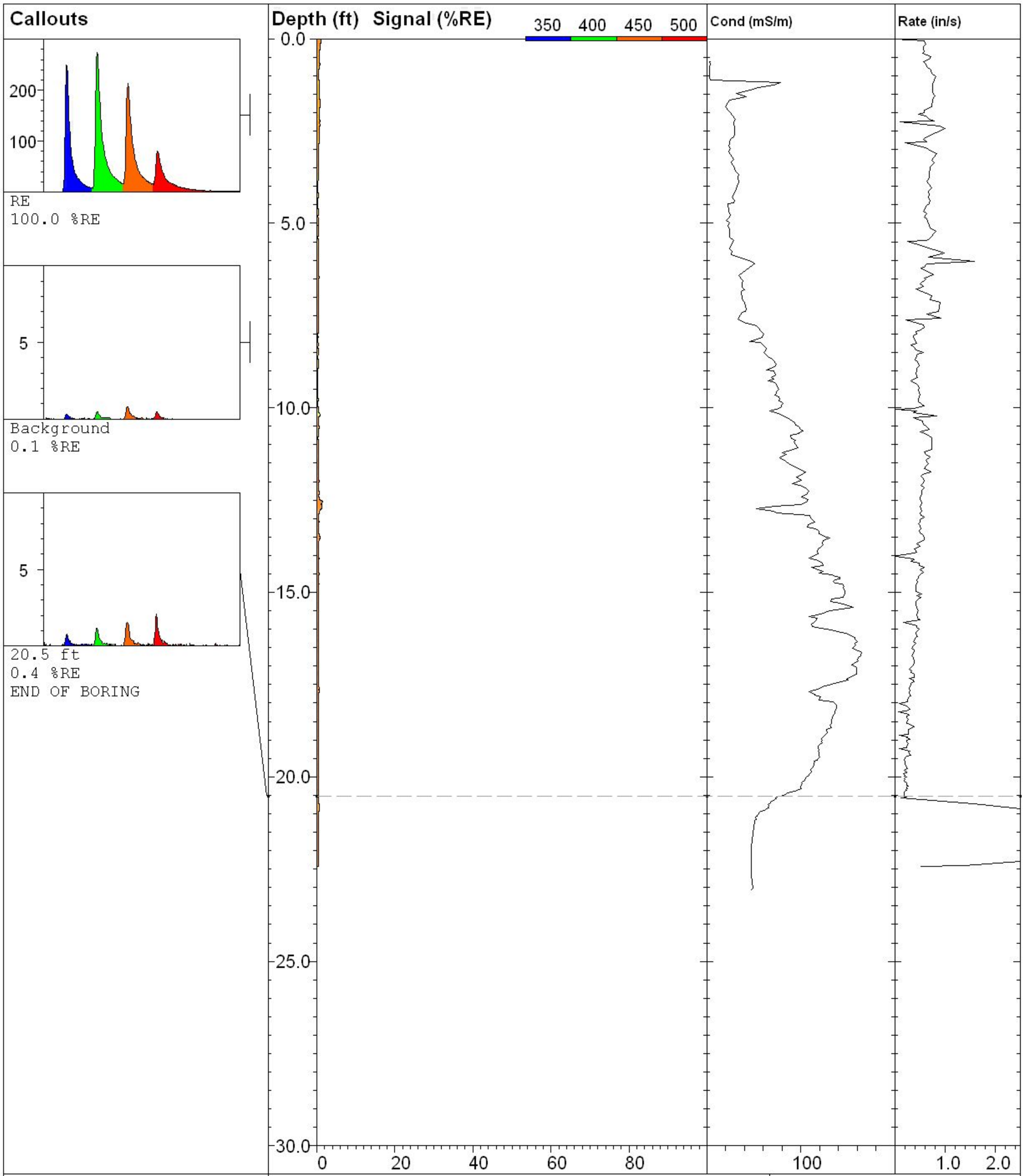
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-02-024**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **6.14 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **9.6 % @ 1.56 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-11 16:29 CDT**



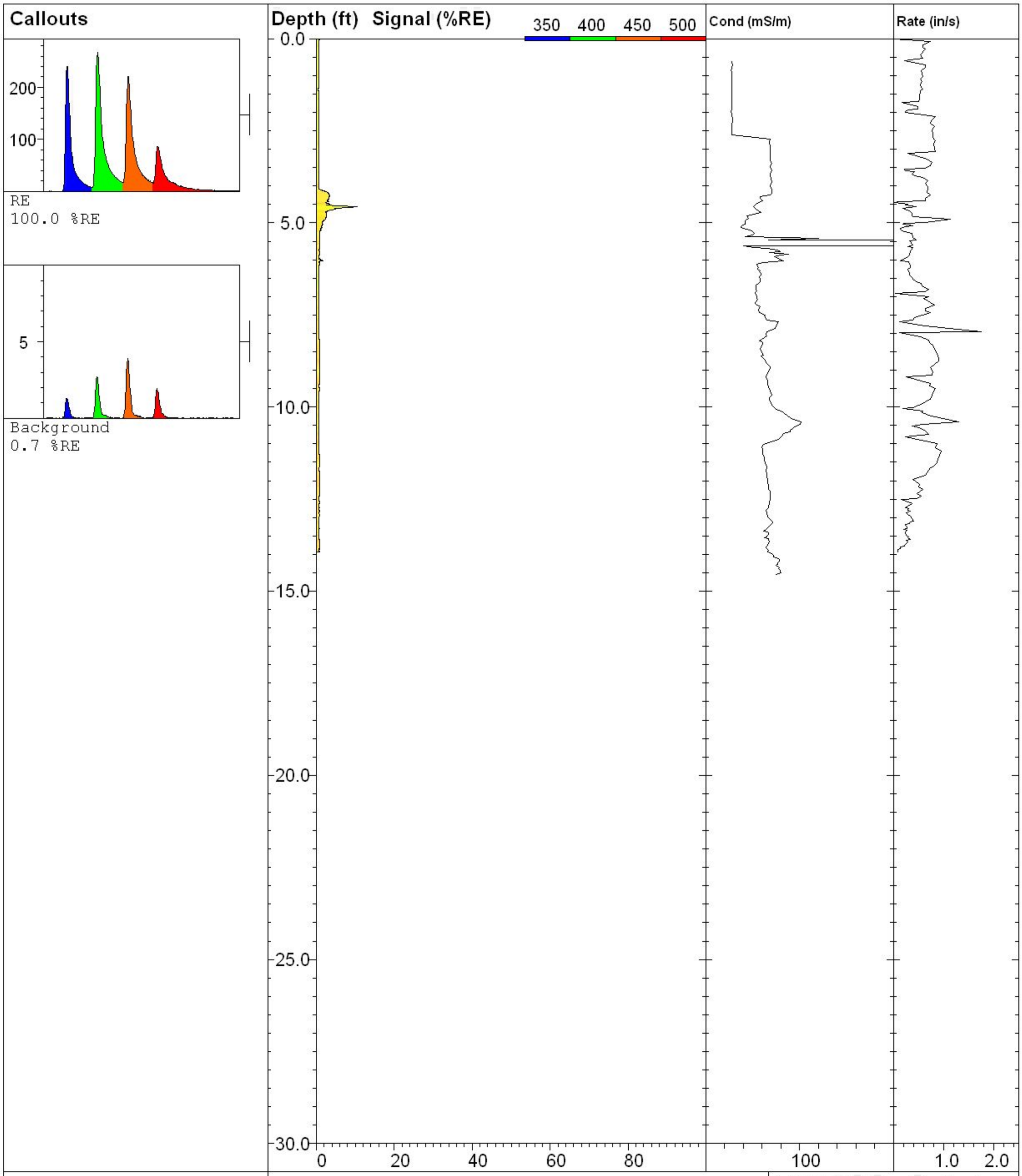
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-02-025**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **27.39 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **3.3 % @ 3.45 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-12 08:52 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-02-026**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **19.97 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **2.7 % @ 1.14 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-13 13:58 CDT**

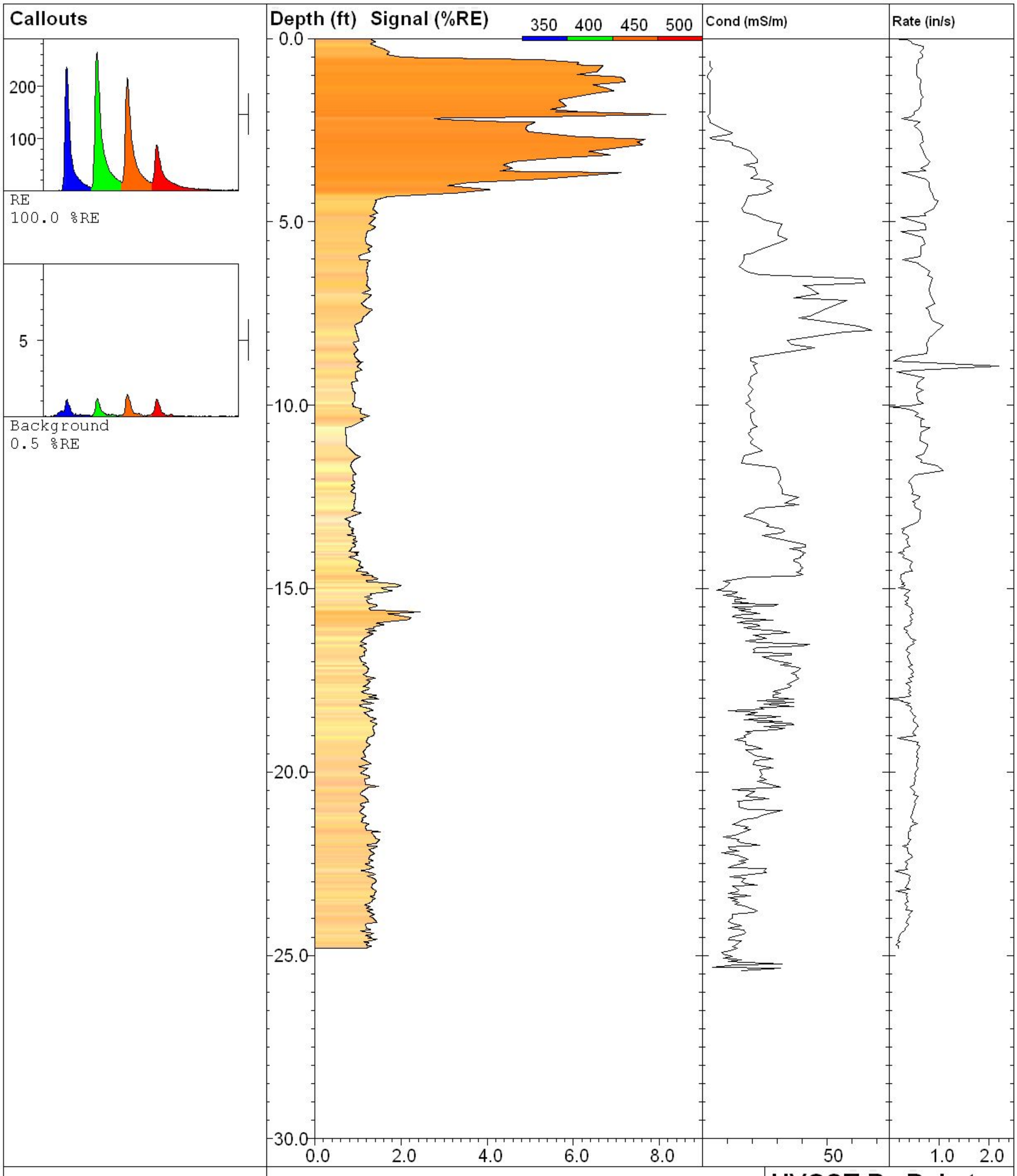


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-02-027**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **22.44 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.5 % @ 12.54 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-13 14:55 CDT**

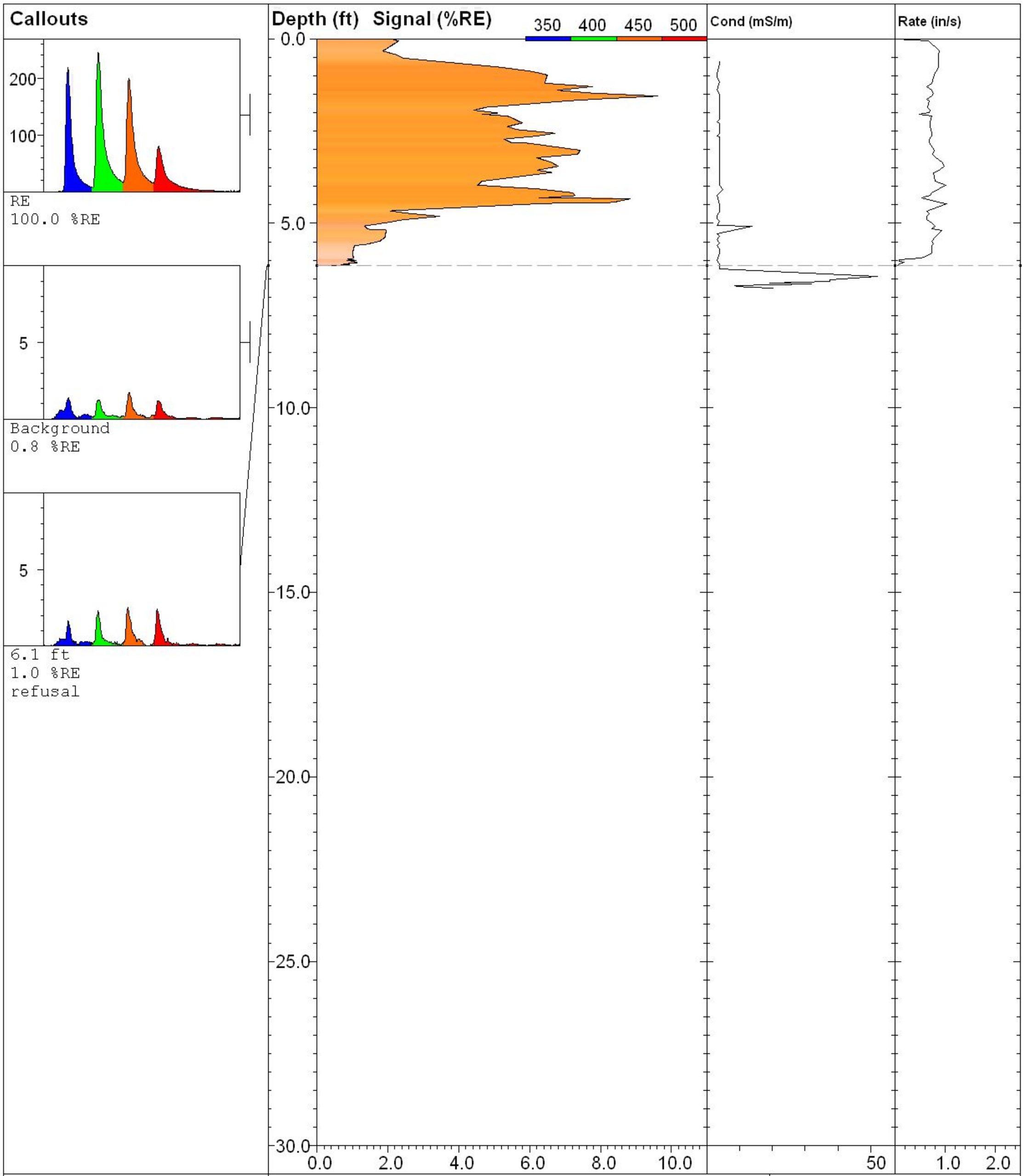


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-02-028**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **13.93 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **10.7 % @ 4.56 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-22 11:41 CDT**

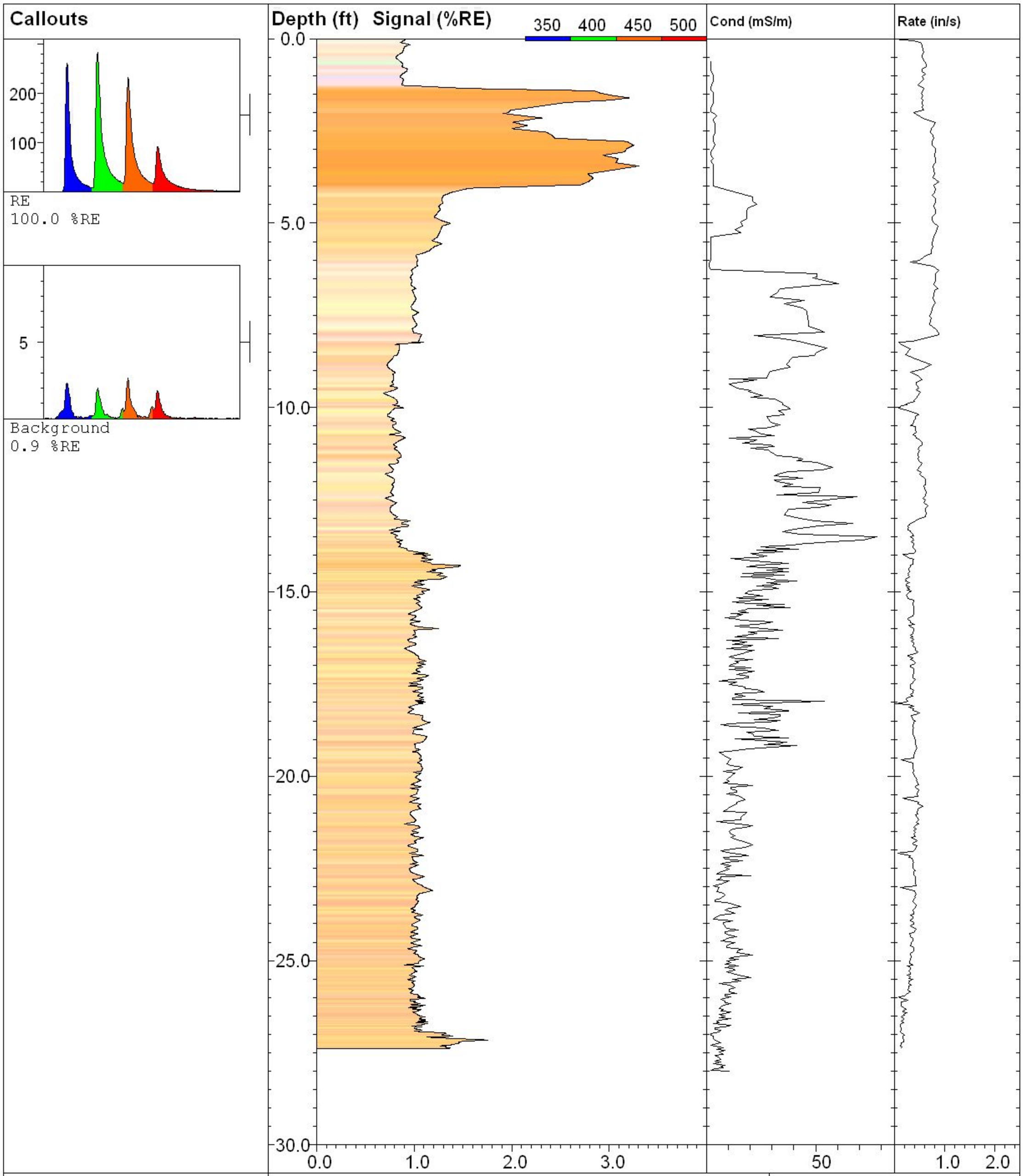
UVOST LOGS
@ Best Fit Scale



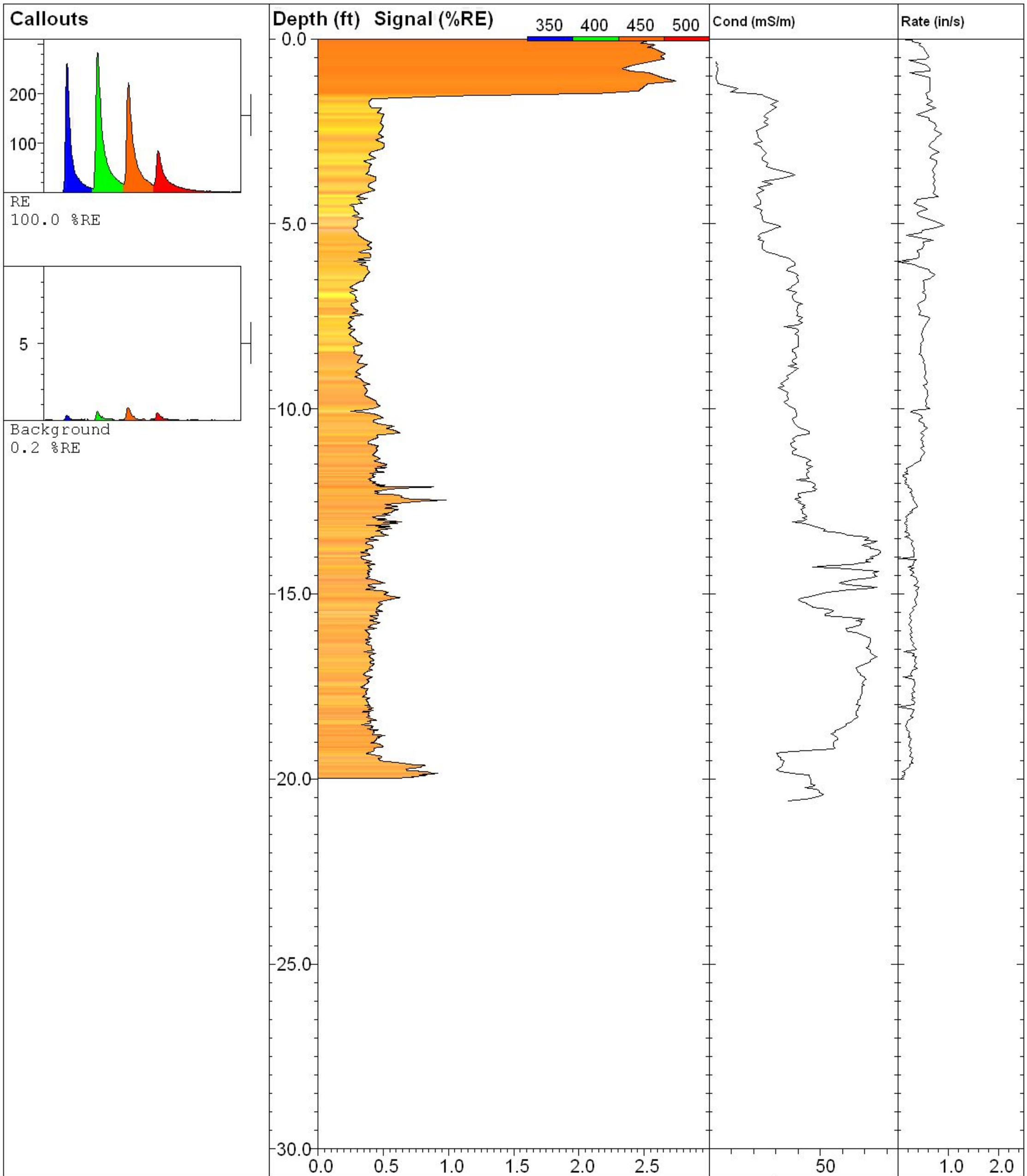
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-02-023**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **24.80 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **8.2 % @ 2.07 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-11 15:50 CDT**



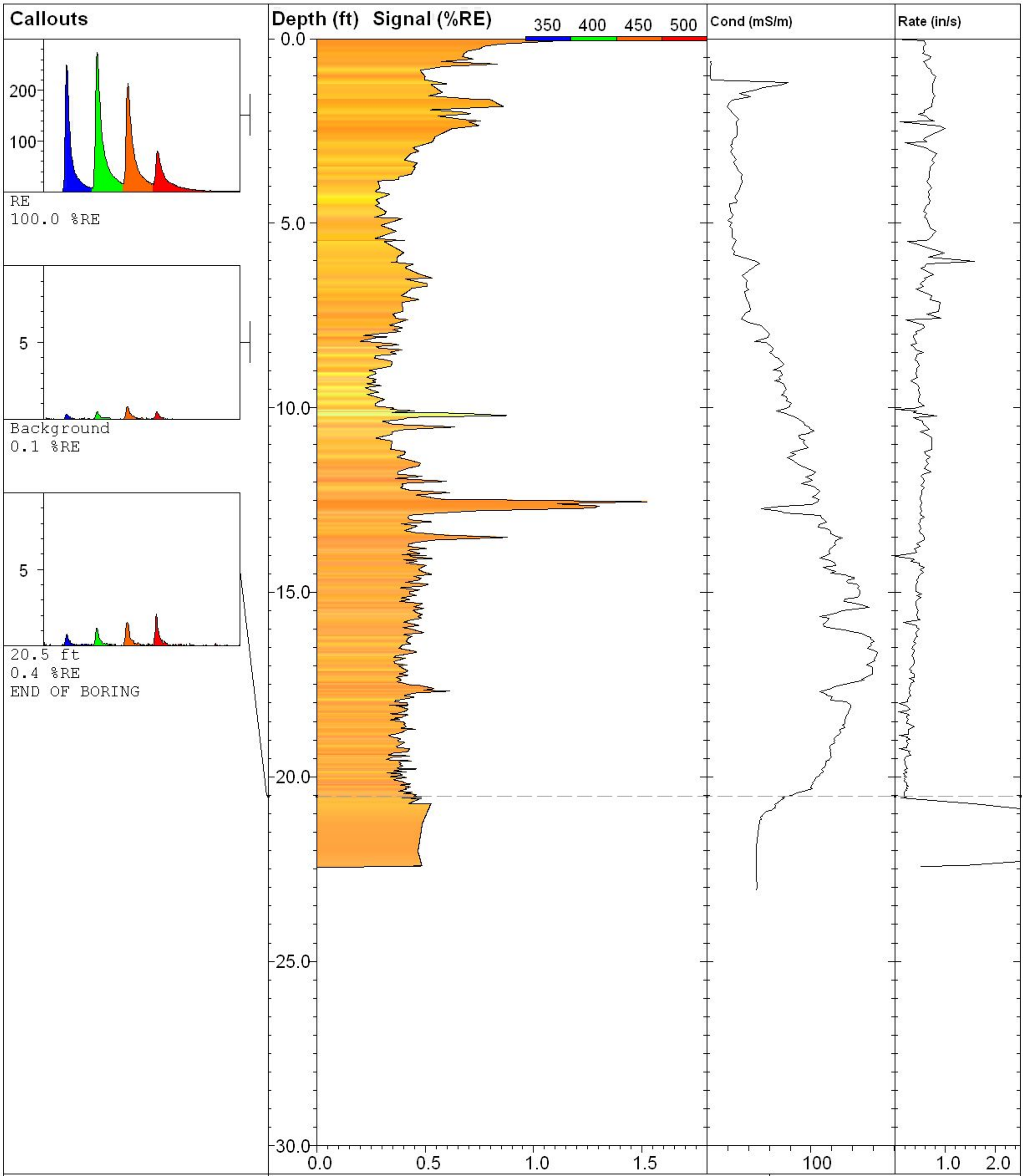
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-02-024**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **6.14 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **9.6 % @ 1.56 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-11 16:29 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-02-025**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **27.39 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **3.3 % @ 3.45 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-12 08:52 CDT**

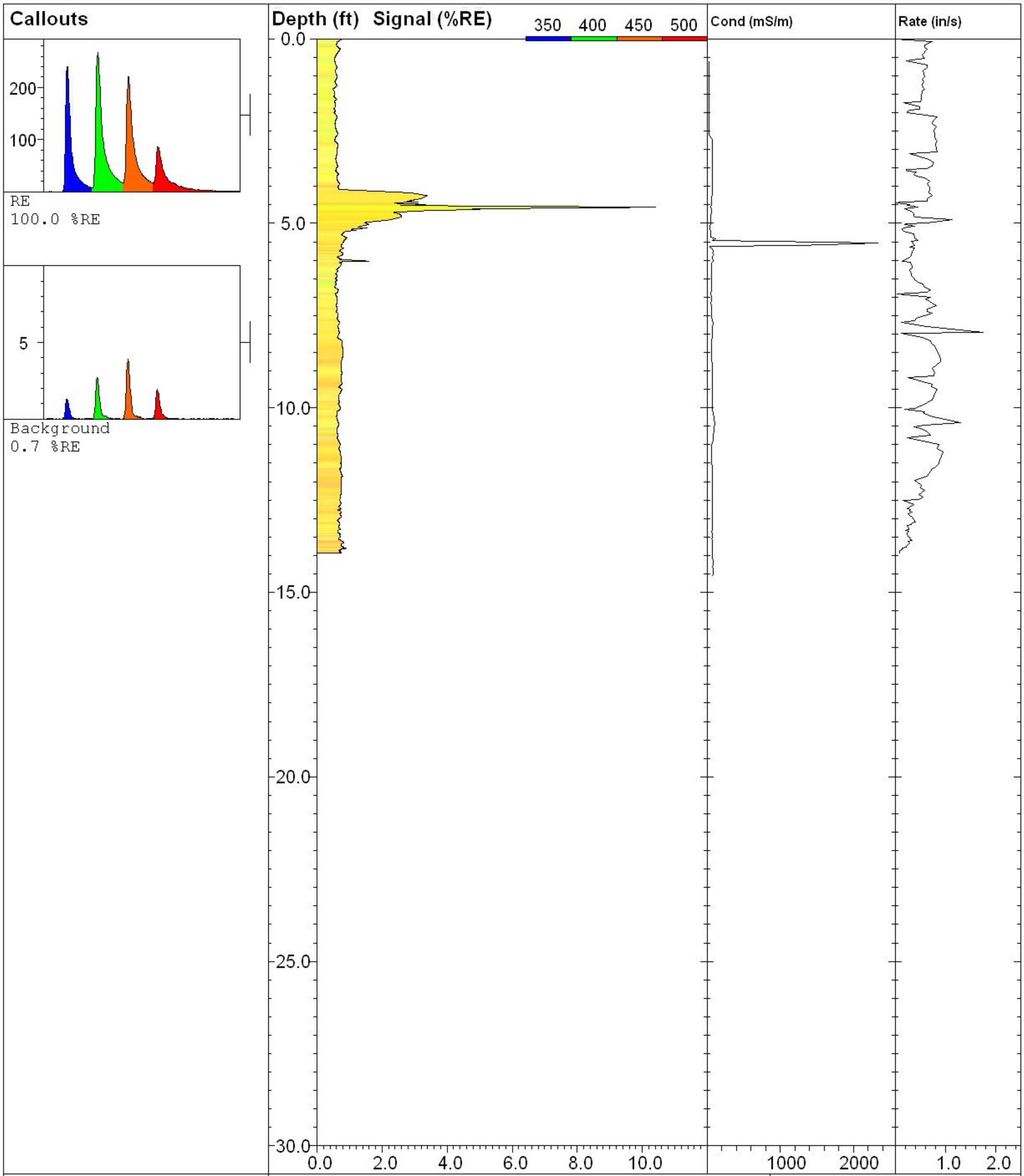


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-02-026**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **19.97 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **2.7 % @ 1.14 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-13 13:58 CDT**



MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

LIF-02-027		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **22.44 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.5 % @ 12.54 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-13 14:55 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-02-028**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **13.93 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **10.7 % @ 4.56 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-22 11:41 CDT**

Buick City
Area 03

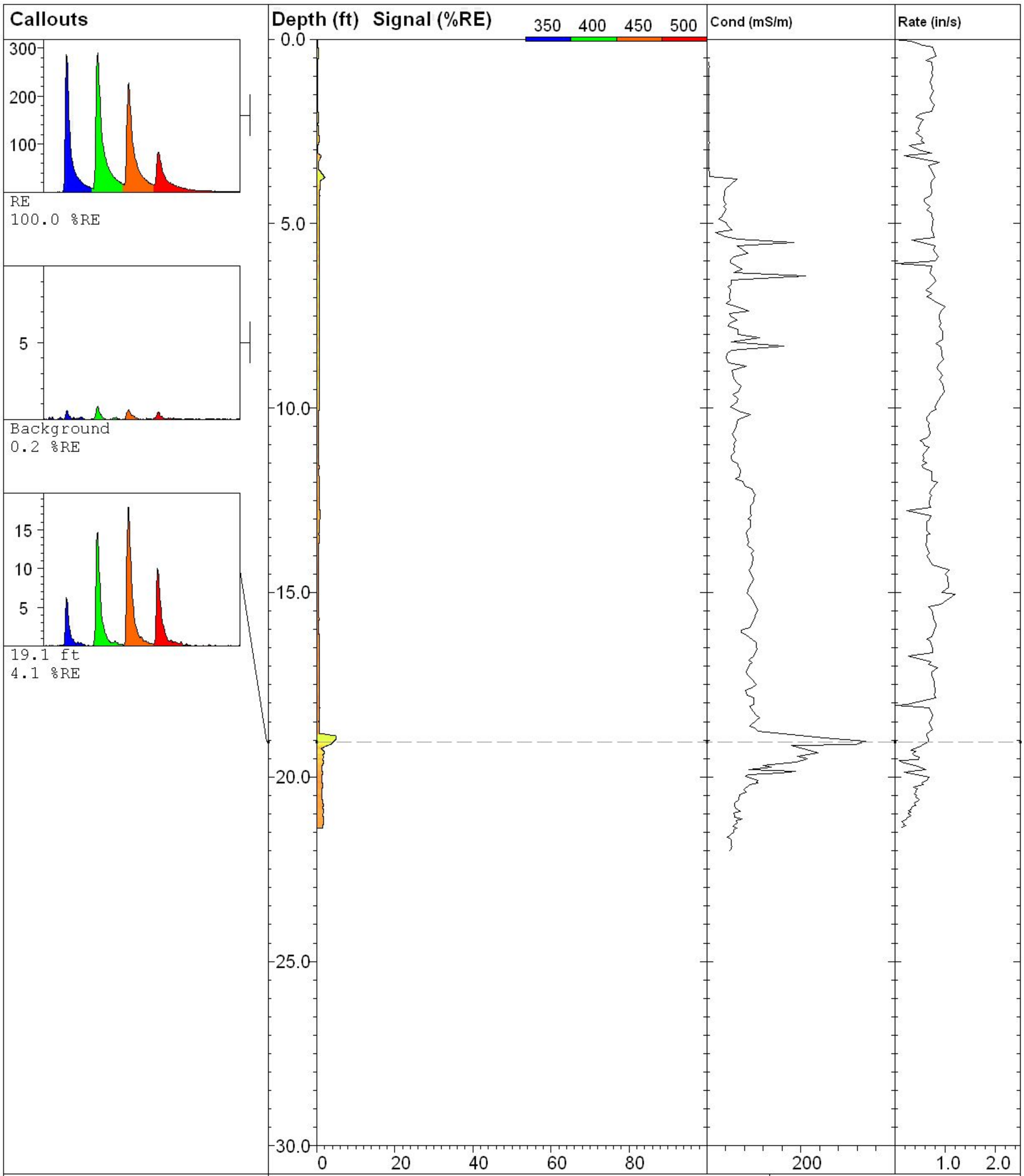
11253 91st Avenue North
Maple Grove, Minnesota
(763) 424-4803
fax (763) 424-9452

Client:	ARCADIS
Contact:	Megan Reightler
Services:	UVOST Logging
Date:	10/10/2011 - 10/29/2011
Project:	Buick City
Project #:	135-MNDS-11UV
Address:	Flint, MI

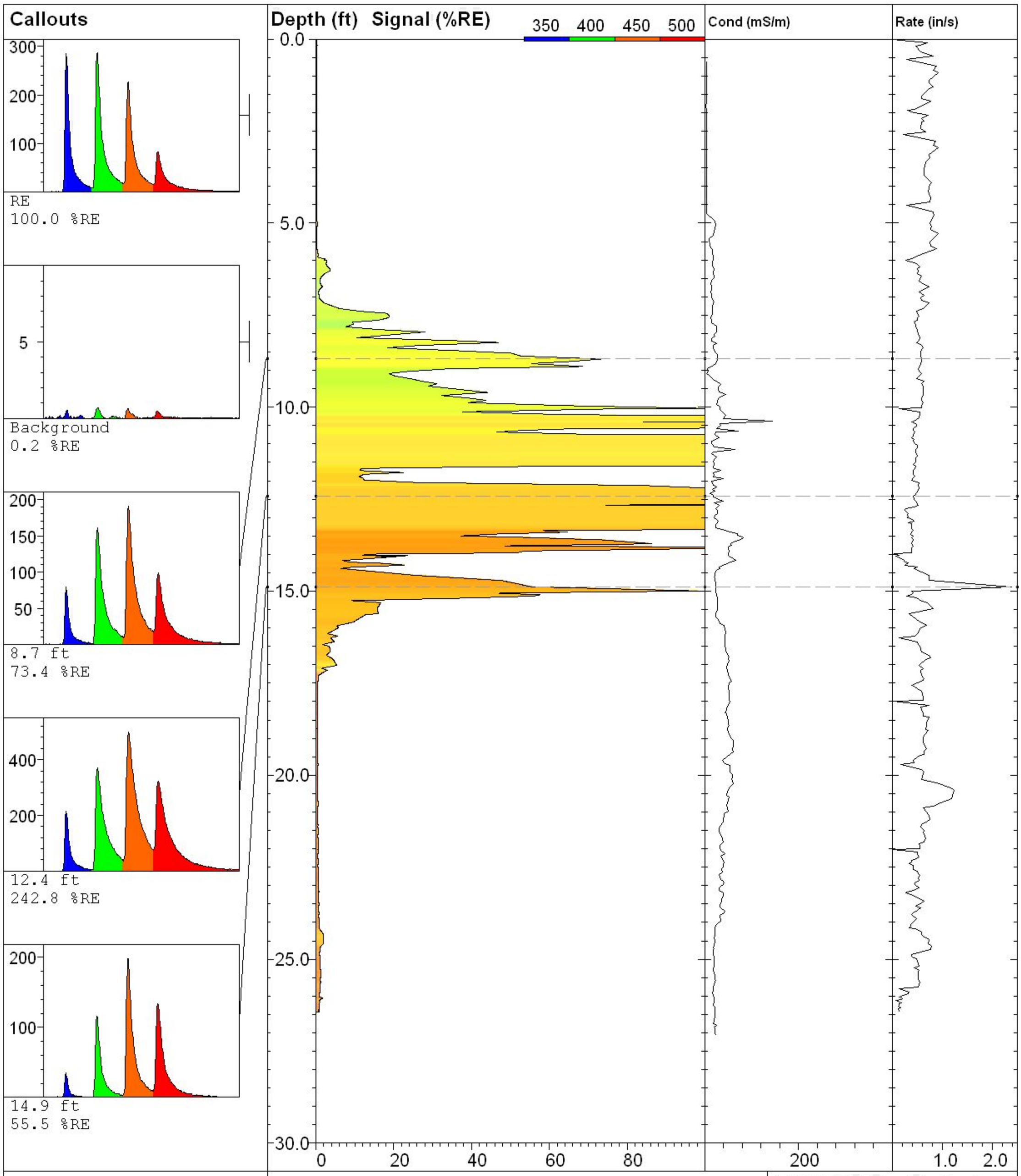
UVOST Log Summary

File	Date/Time	Latitude	Longitude	Final Depth *(ft)*	Max Signal *(%RE)*	Max. Signal Depth *(ft)*	Initial RE Area *(pVs)*	Background Area *(pVs)*	Fluorescence Top - Bottom *(ft)*
LIF-03-001	10/27/2011 12:55	NA	NA	21.4	5	19	11804	23	18.9 - 21.4
LIF-03-002	10/27/2011 13:30	NA	NA	26.4	319	10.5	11951	27	6.0 - 17.1
LIF-03-003	10/27/2011 14:28	NA	NA	25.1	21	14.6	11294	32	12.1 - 16.4

UVOST LOGS
@ 100% RE



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-03-001**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **21.38 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **4.9 % @ 18.96 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-27 12:55 CDT**

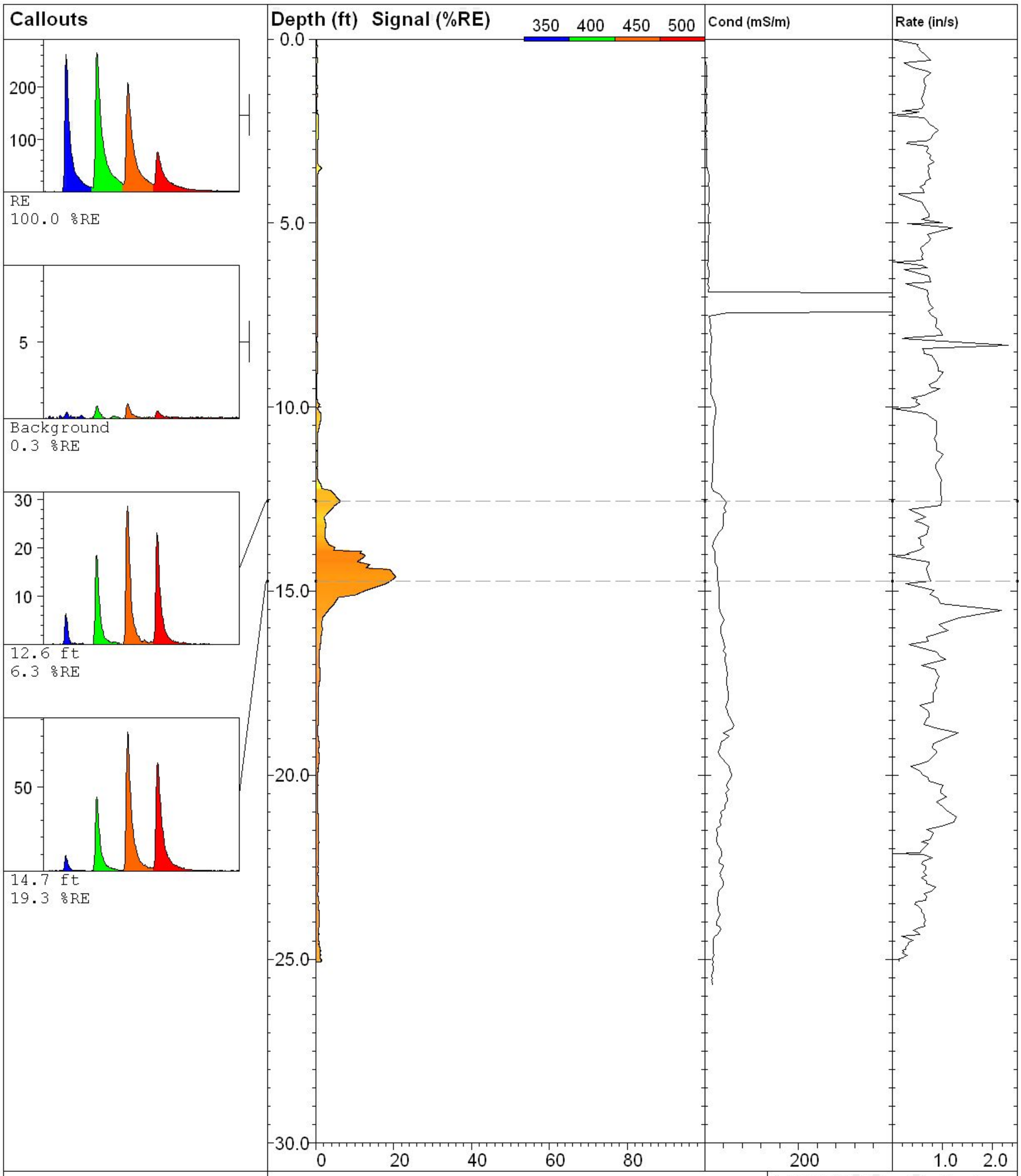


MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

LIF-03-002

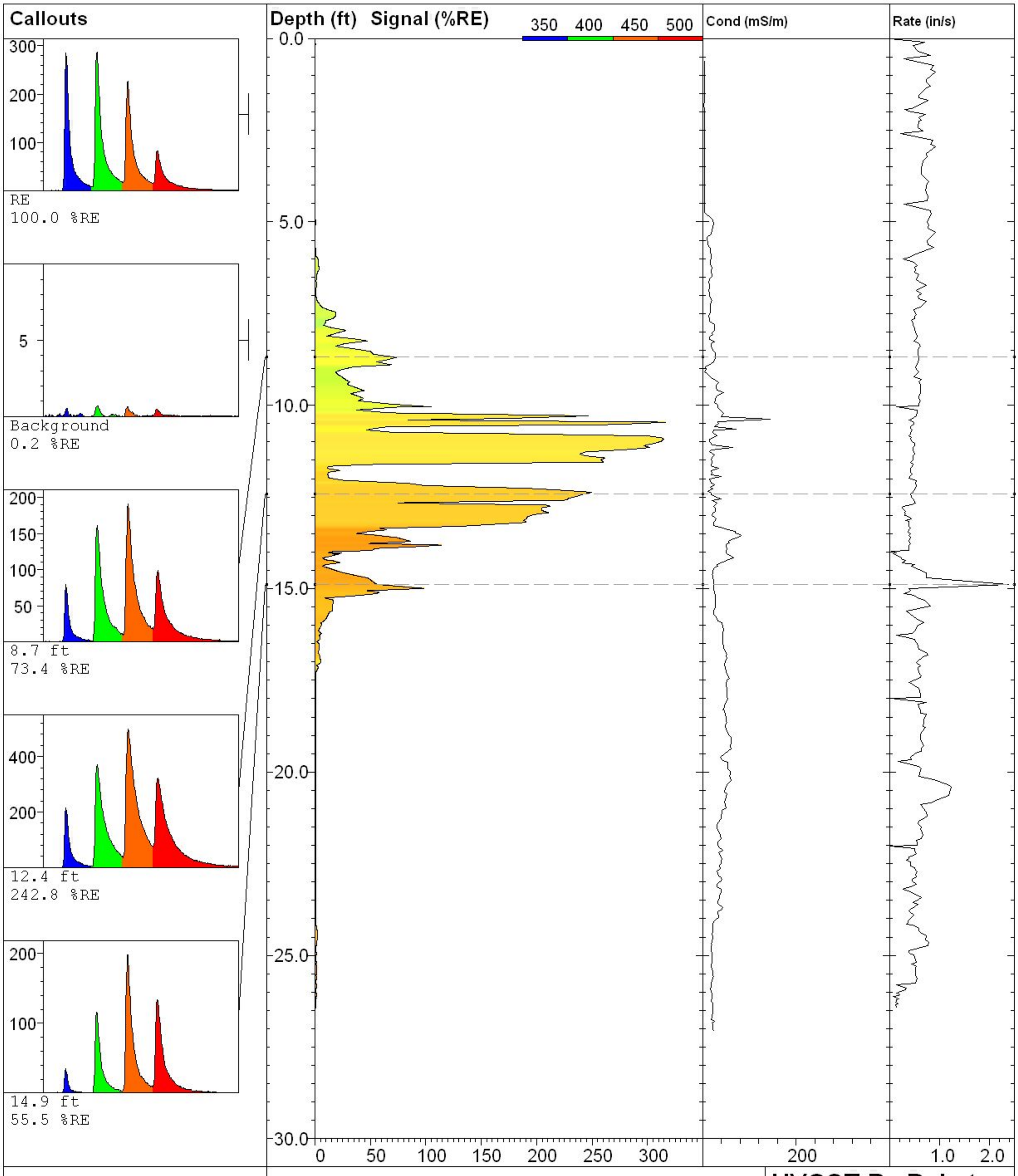
UVOST By Dakota
www.DakotaTechnologies.com

Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **26.43 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **319.1 % @ 10.46 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-27 13:30 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-03-003**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **25.08 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **20.5 % @ 14.62 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-27 14:28 CDT**

UVOST LOGS
@ 350% RE



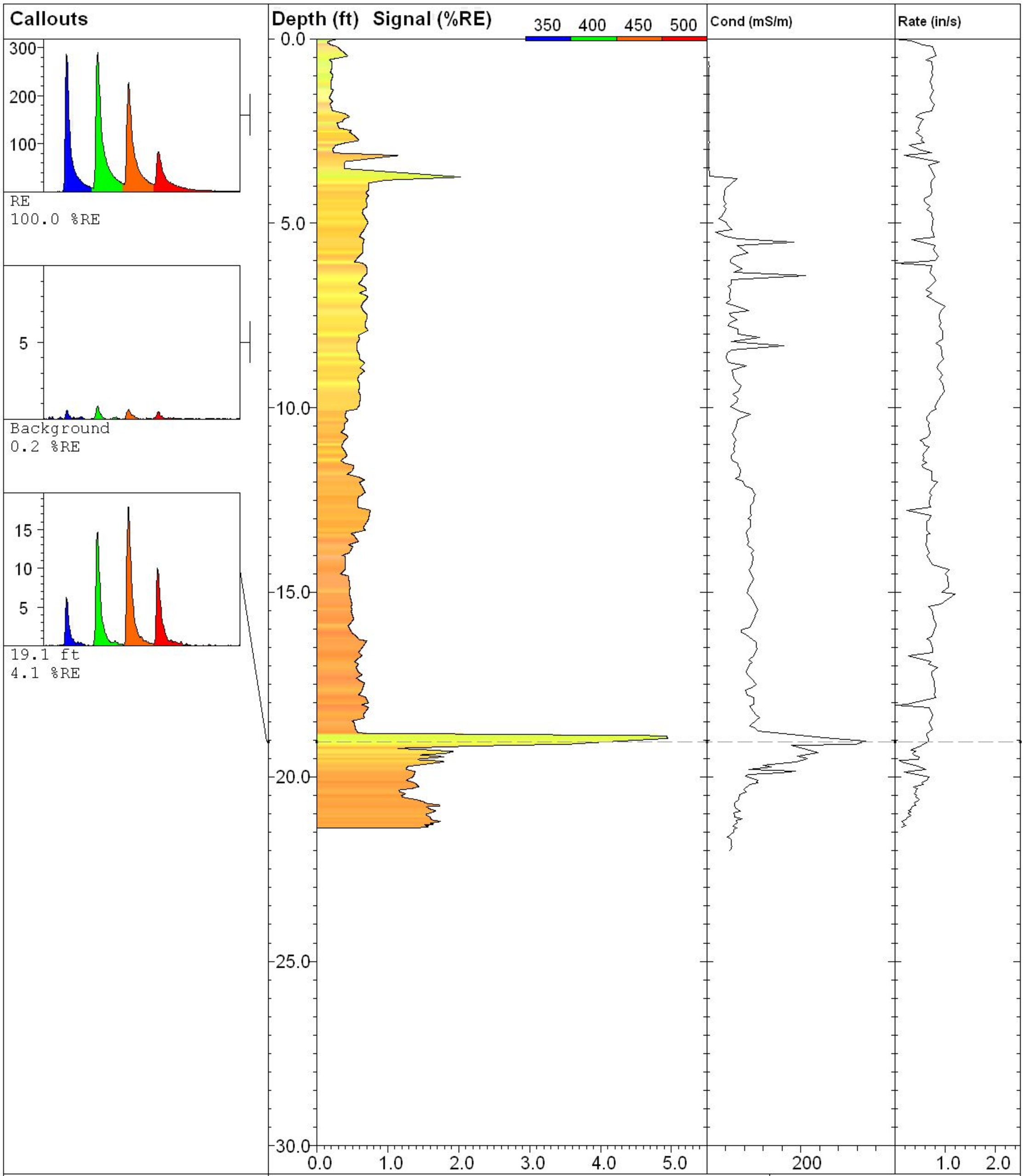
MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

LIF-03-002

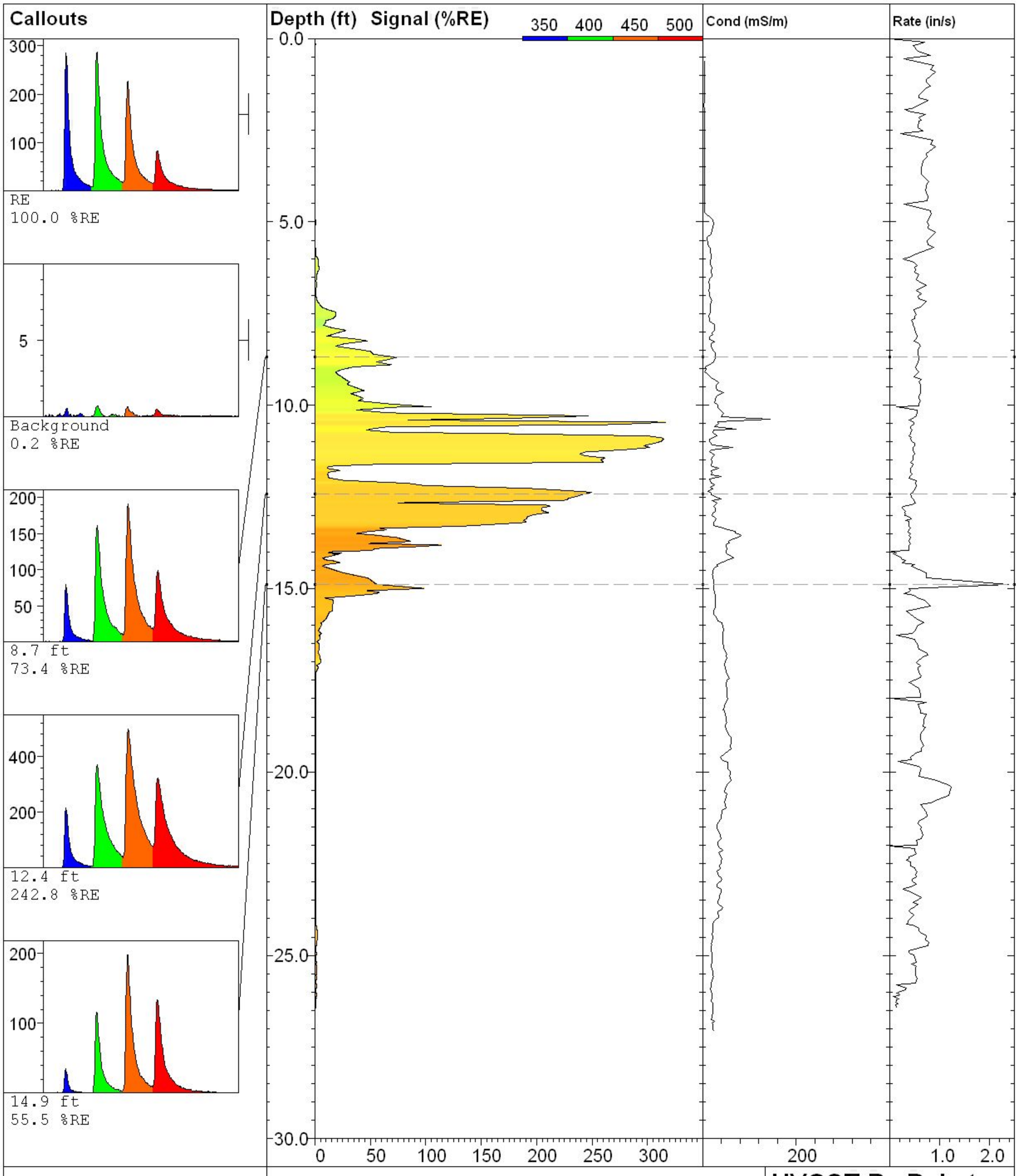
UVOST By Dakota
www.DakotaTechnologies.com

Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **26.43 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **319.1 % @ 10.46 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-27 13:30 CDT**

UVOST LOGS
@ Best Fit Scale



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-03-001**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **21.38 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **4.9 % @ 18.96 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-27 12:55 CDT**

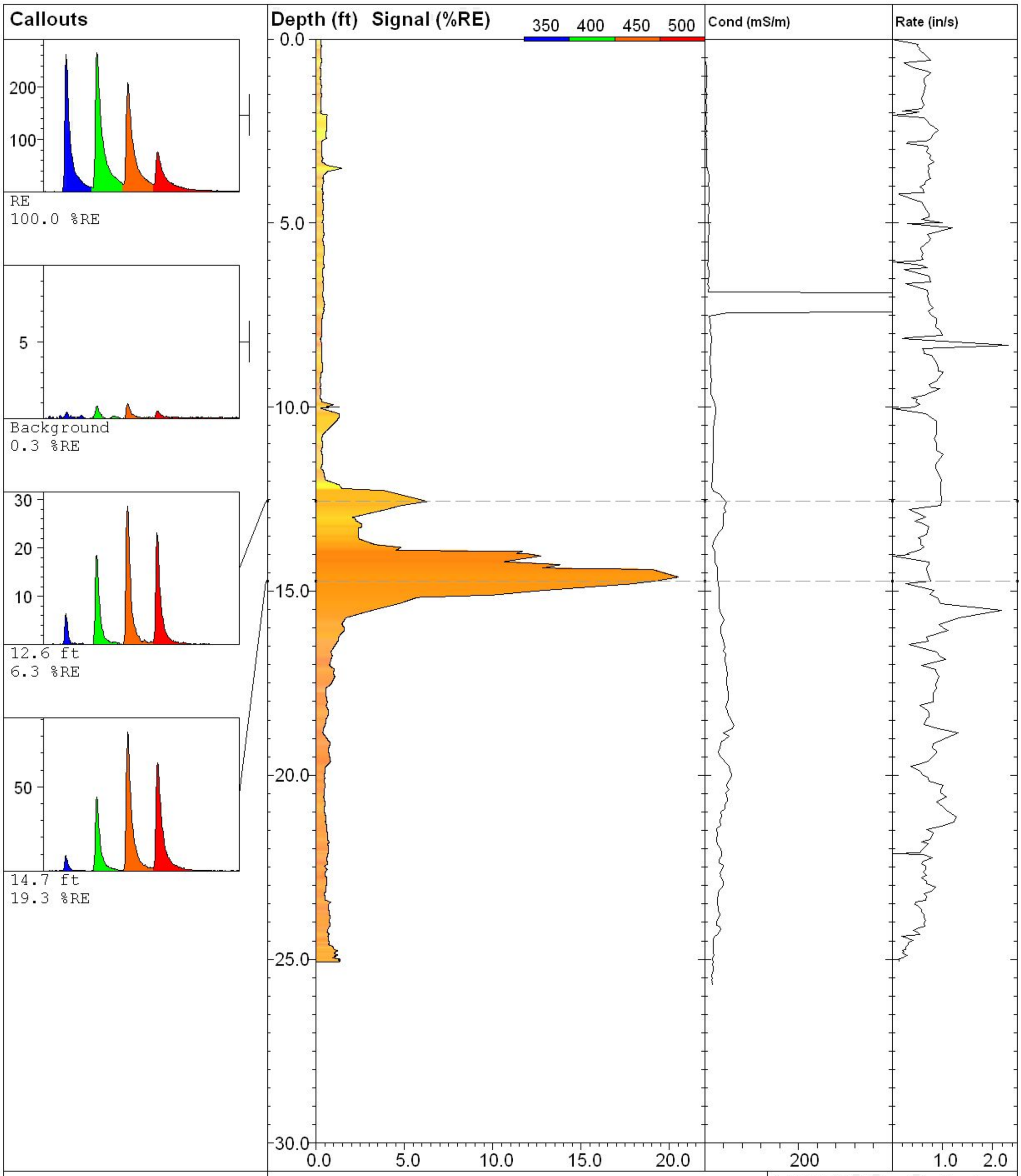


MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

LIF-03-002

UVOST By Dakota
www.DakotaTechnologies.com

Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **26.43 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **319.1 % @ 10.46 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-27 13:30 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-03-003**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **25.08 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **20.5 % @ 14.62 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-27 14:28 CDT**

Buick City
Area 10

MATRIX ENVIRONMENTAL LLC

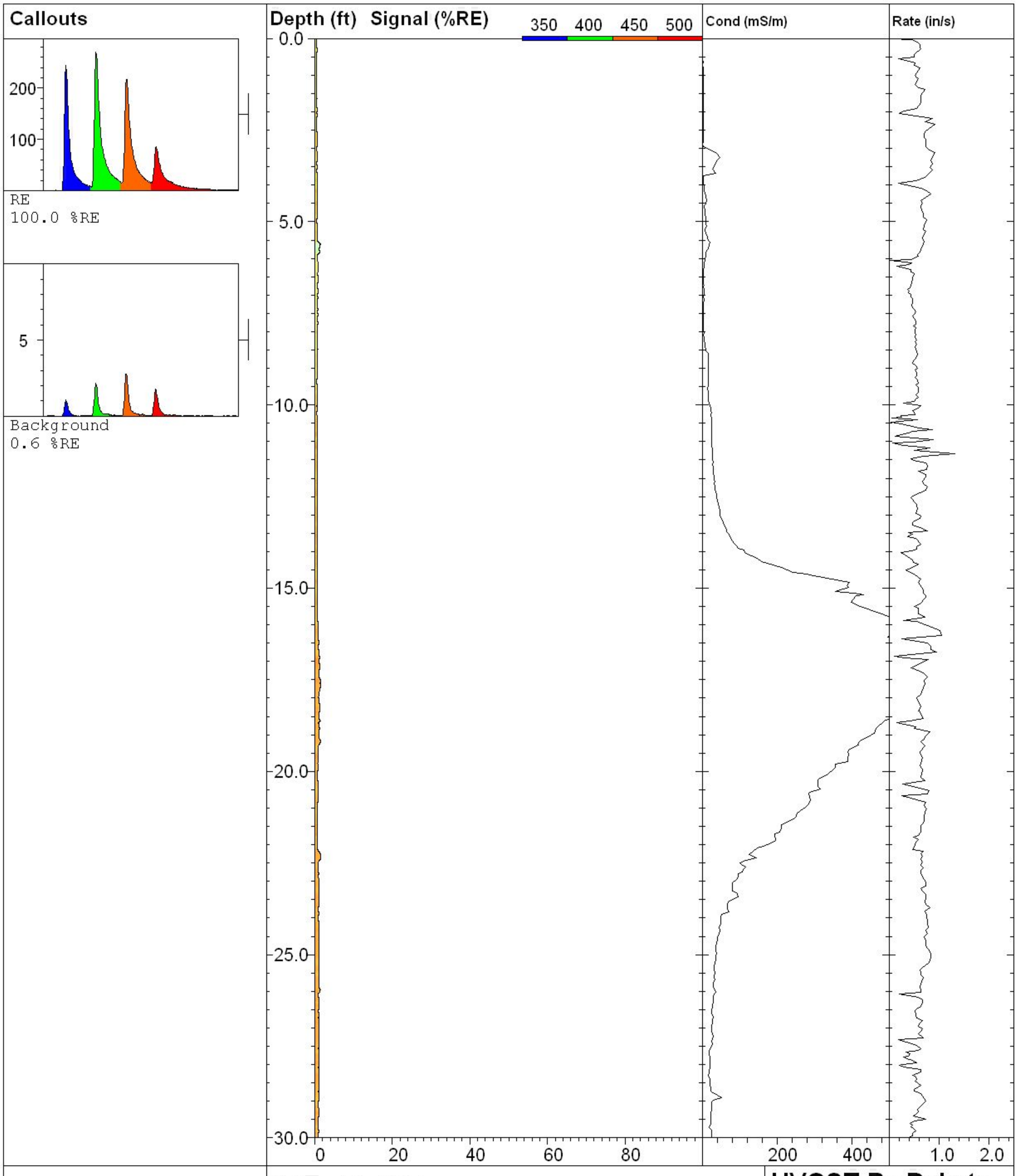
11253 91st Avenue North
Maple Grove, Minnesota
(763) 424-4803
fax (763) 424-9452

Client:	ARCADIS
Contact:	Megan Reightler
Services:	UVOST Logging
Date:	10/10/2011 - 10/29/2011
Project:	Buick City
Project #:	135-MNDS-11UV
Address:	Flint, MI

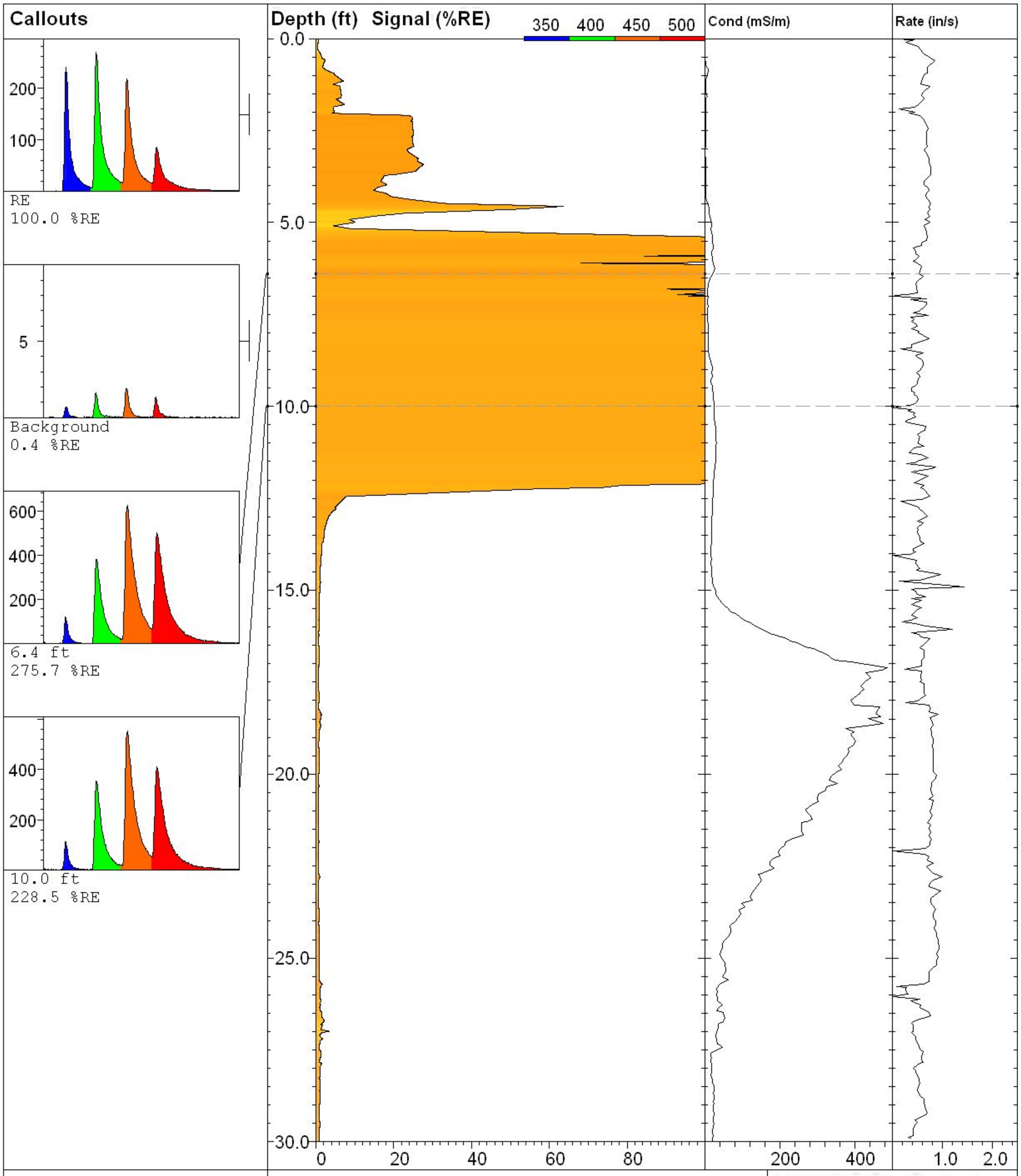
UVOST Log Summary

File	Date/Time	Latitude	Longitude	Final Depth *(ft)*	Max Signal *(%RE)*	Max. Signal Depth *(ft)*	Initial RE Area *(pVs)*	Background Area *(pVs)*	Fluorescence Top - Bottom *(ft)*
LIF-10-001	10/26/2011 9:10	NA	NA	30.0	2	17.7	11259	67	NA
LIF-10-002	10/26/2011 9:49	NA	NA	30.1	276	6.4	11369	47	5.0 - 13.5
LIF-10-003	10/26/2011 10:36	NA	NA	30.0	23	0.5	11429	80	5.0 - 10.5
LIF-10-004	10/26/2011 11:16	NA	NA	23.8	4	0.7	11415	53	NA
LIF-10-005	10/26/2011 12:41	NA	NA	25.6	2	15.0	11340	50	NA
LIF-10-006	10/26/2011 13:20	NA	NA	28.3	2	18.9	11711	57	NA
LIF-10-007	10/26/2011 13:56	NA	NA	30.0	2	29.7	11325	44	NA
LIF-10-008	10/26/2011 14:38	NA	NA	29.1	54	6.8	11855	56	5.0 - 8.8
LIF-10-009	10/26/2011 15:12	NA	NA	7.8	1	7.2	11991	50	NA
LIF-10-010	10/26/2011 15:57	NA	NA	30.0	70	13.5	11528	53	7.2-15.2, 26.5-27.2
LIF-10-011	10/26/2011 16:32	NA	NA	30.0	113	10.7	11797	46	6.1-11.7, 16.2-20.6
LIF-10-012	10/27/2011 7:18	NA	NA	30.0	18	9.4	11642	50	6.2 - 10.0
LIF-10-013	10/27/2011 8:28	NA	NA	30.0	2	21.3	11398	19	NA
LIF-10-014	10/27/2011 9:08	NA	NA	30.0	172	15.7	11580	24	5.0 - 21.0
LIF-10-015	10/27/2011 9:59	NA	NA	30.1	4	5.1	11856	24	NA
LIF-10-016	10/27/2011 10:40	NA	NA	30.0	1	1.0	11106	25	NA

UVOST LOGS
@ 100% RE



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-10-001**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.5 % @ 17.67 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-26 09:10 CDT**



LIF-10-002		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.07 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **275.7 % @ 6.39 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-26 09:49 CDT**

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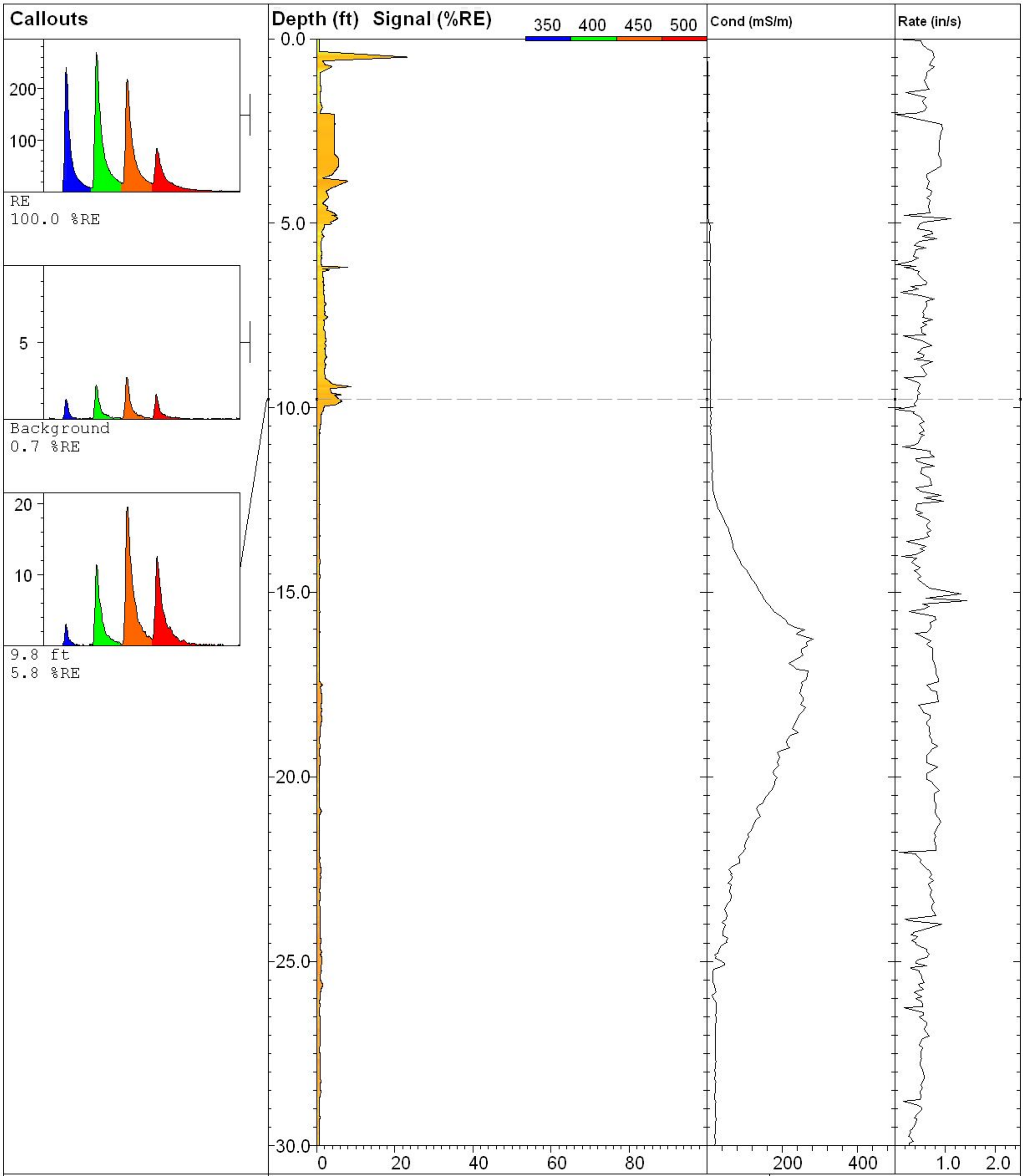
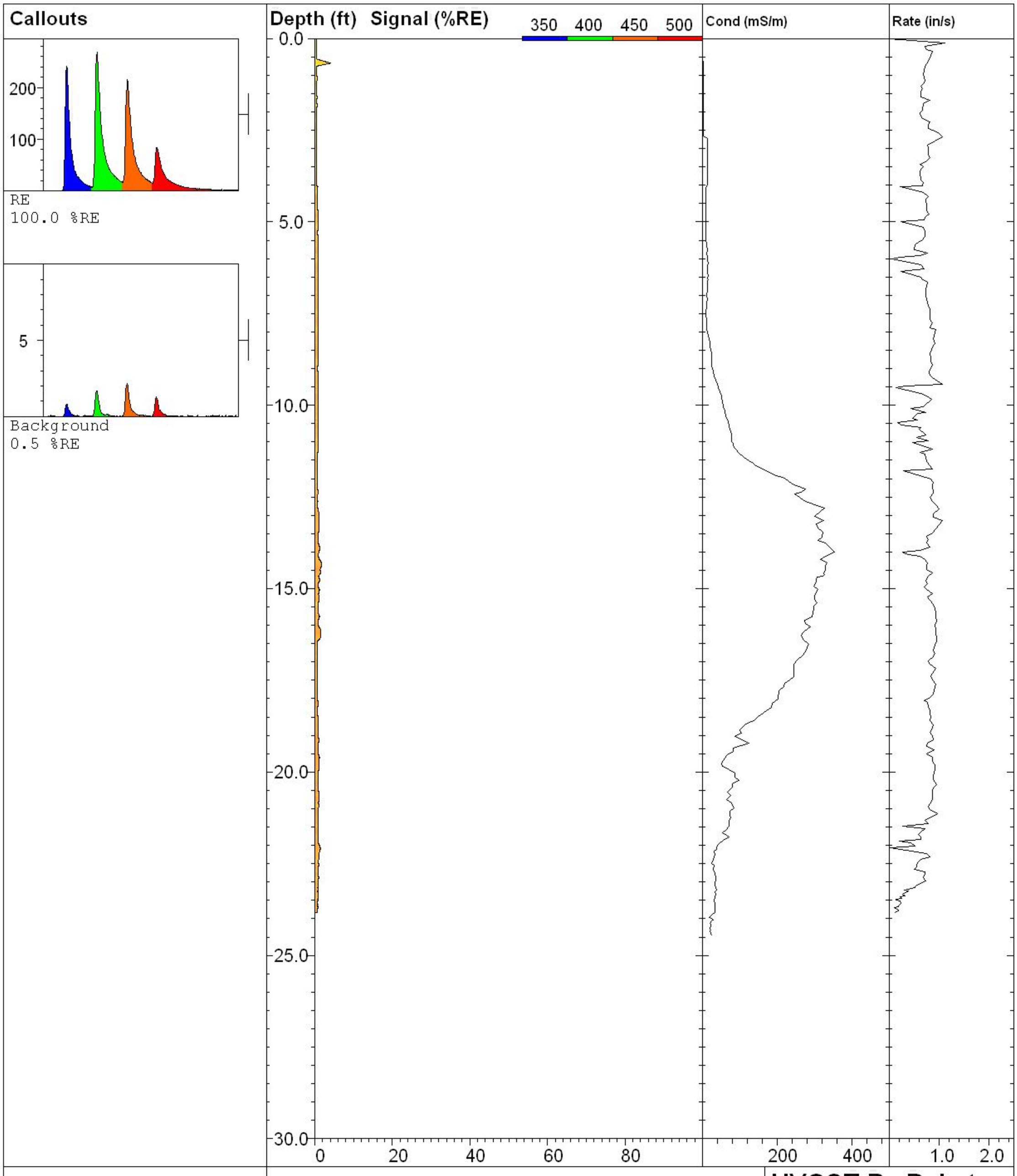
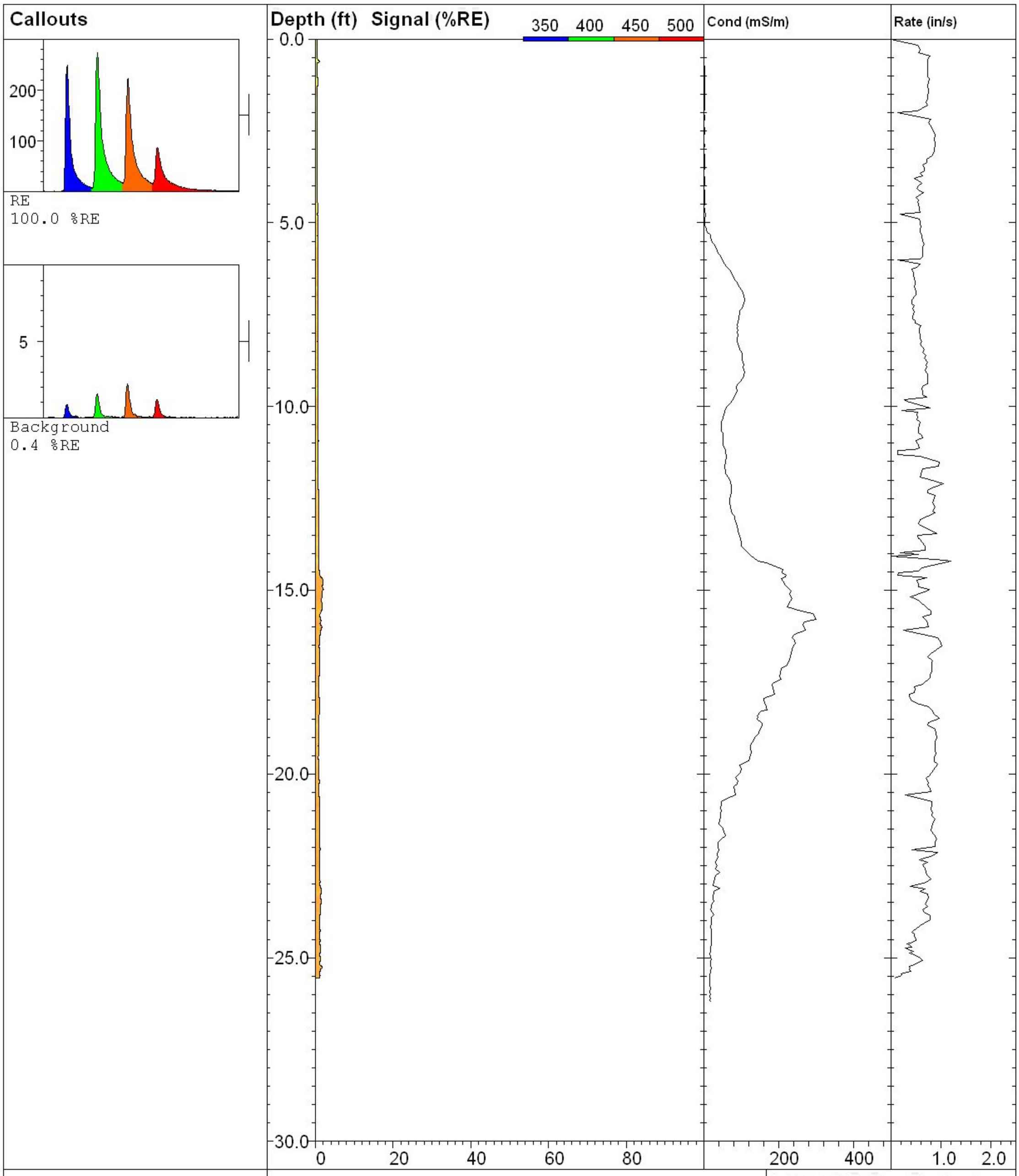
www.matrixenv.com



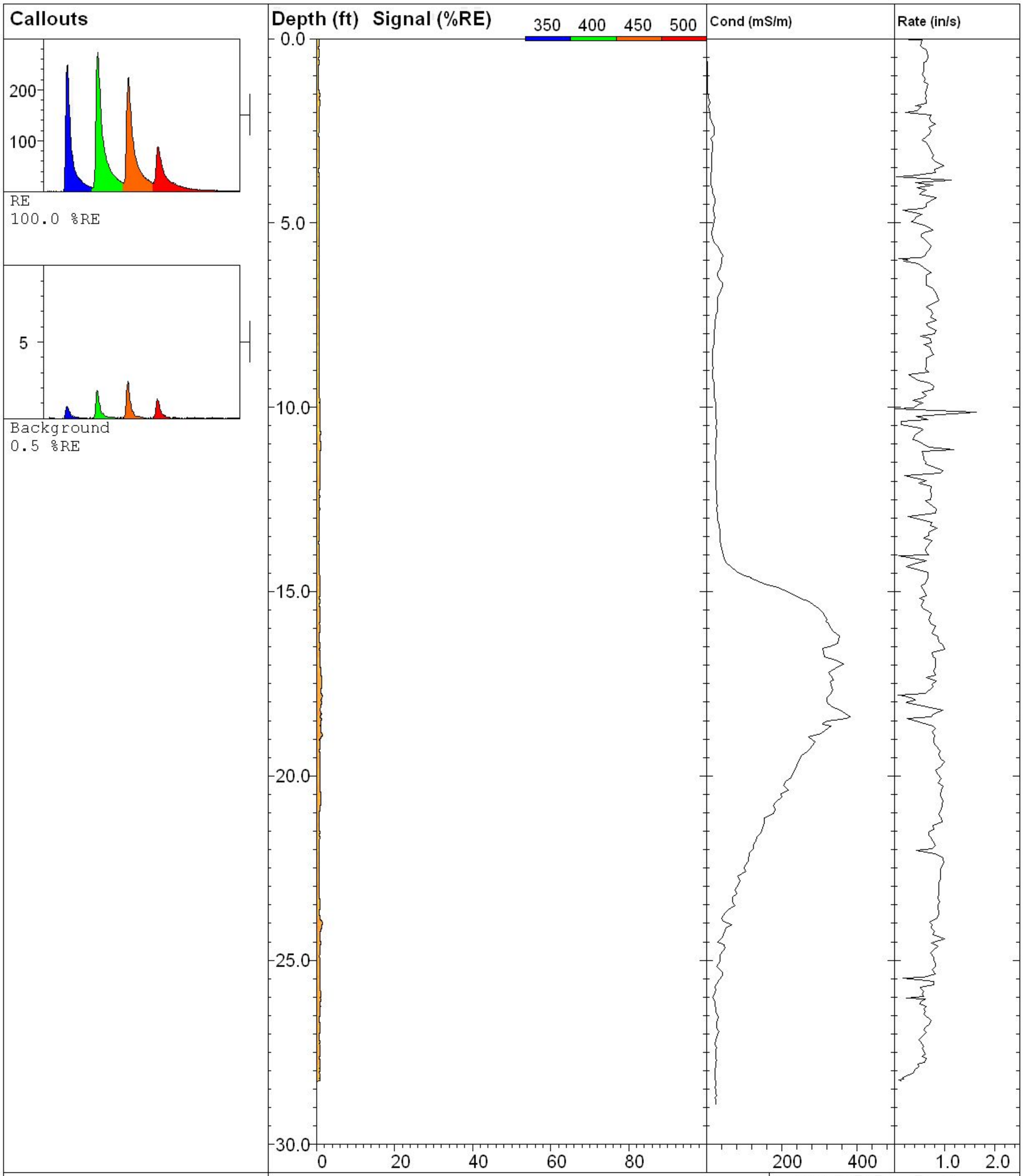
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-10-003**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.04 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **23.3 % @ 0.50 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-26 10:36 CDT**



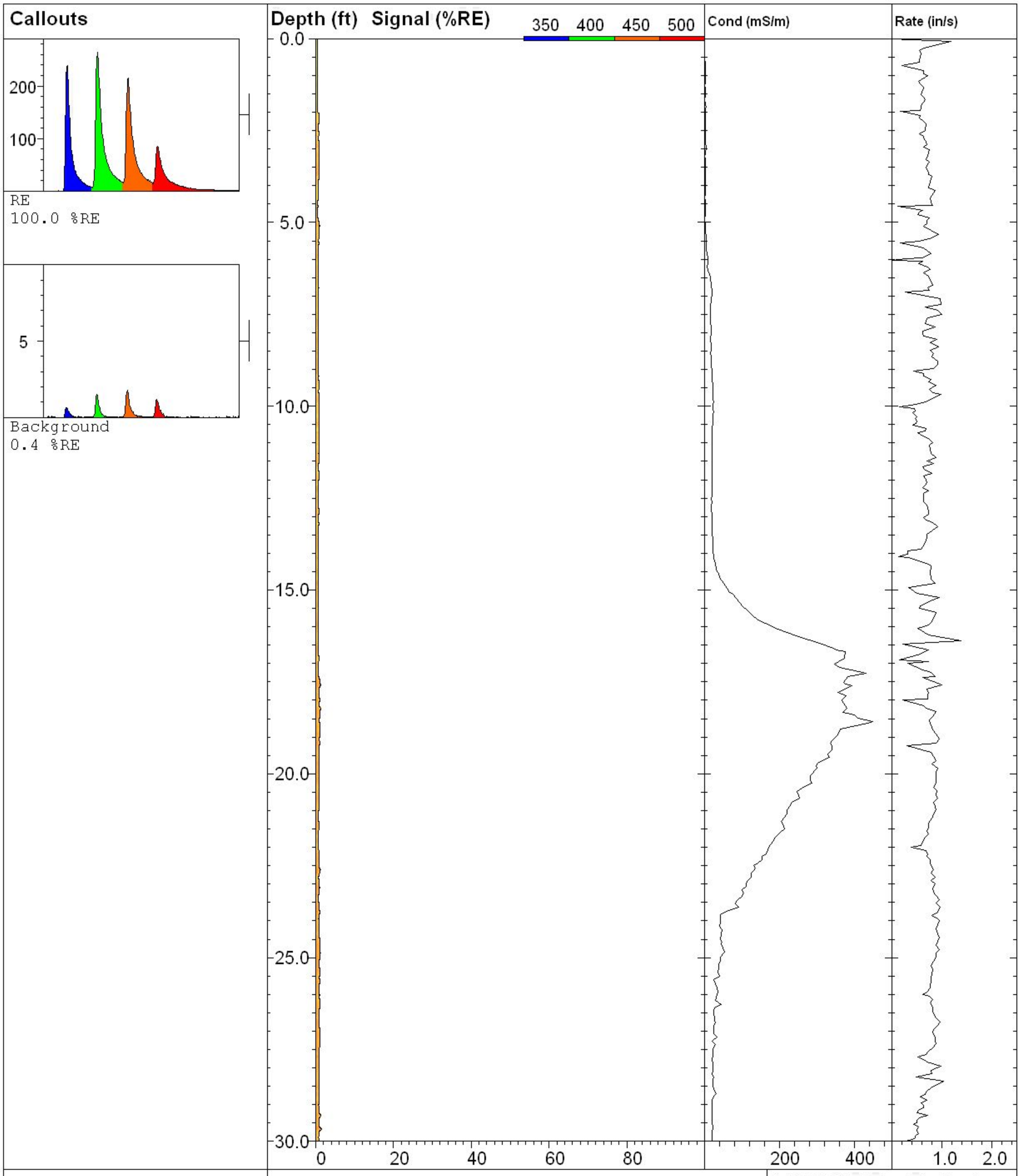
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-10-004**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **23.82 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **4.2 % @ 0.67 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-26 11:16 CDT**



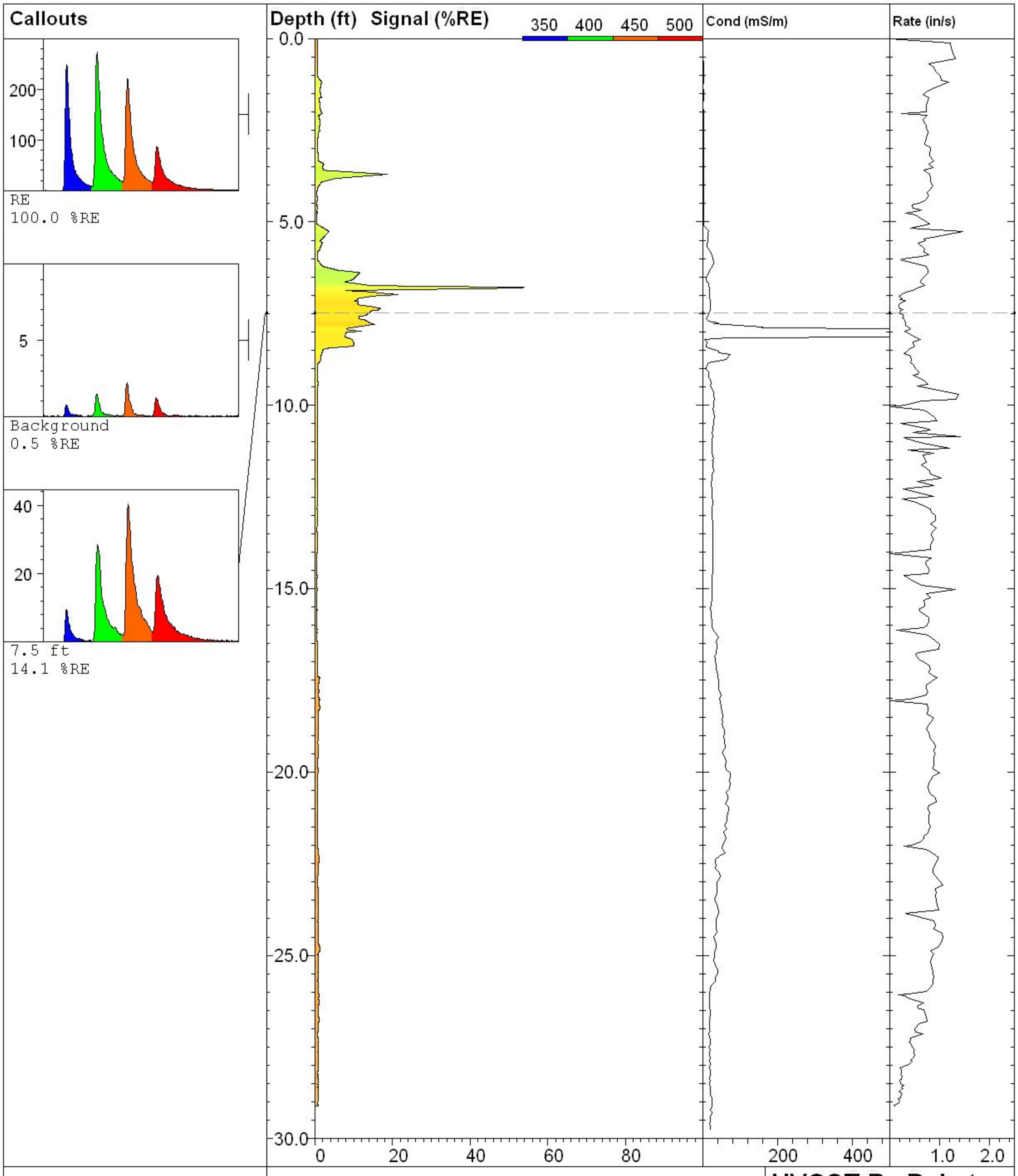
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-10-005**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **25.56 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **2.0 % @ 14.98 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-26 12:41 CDT**



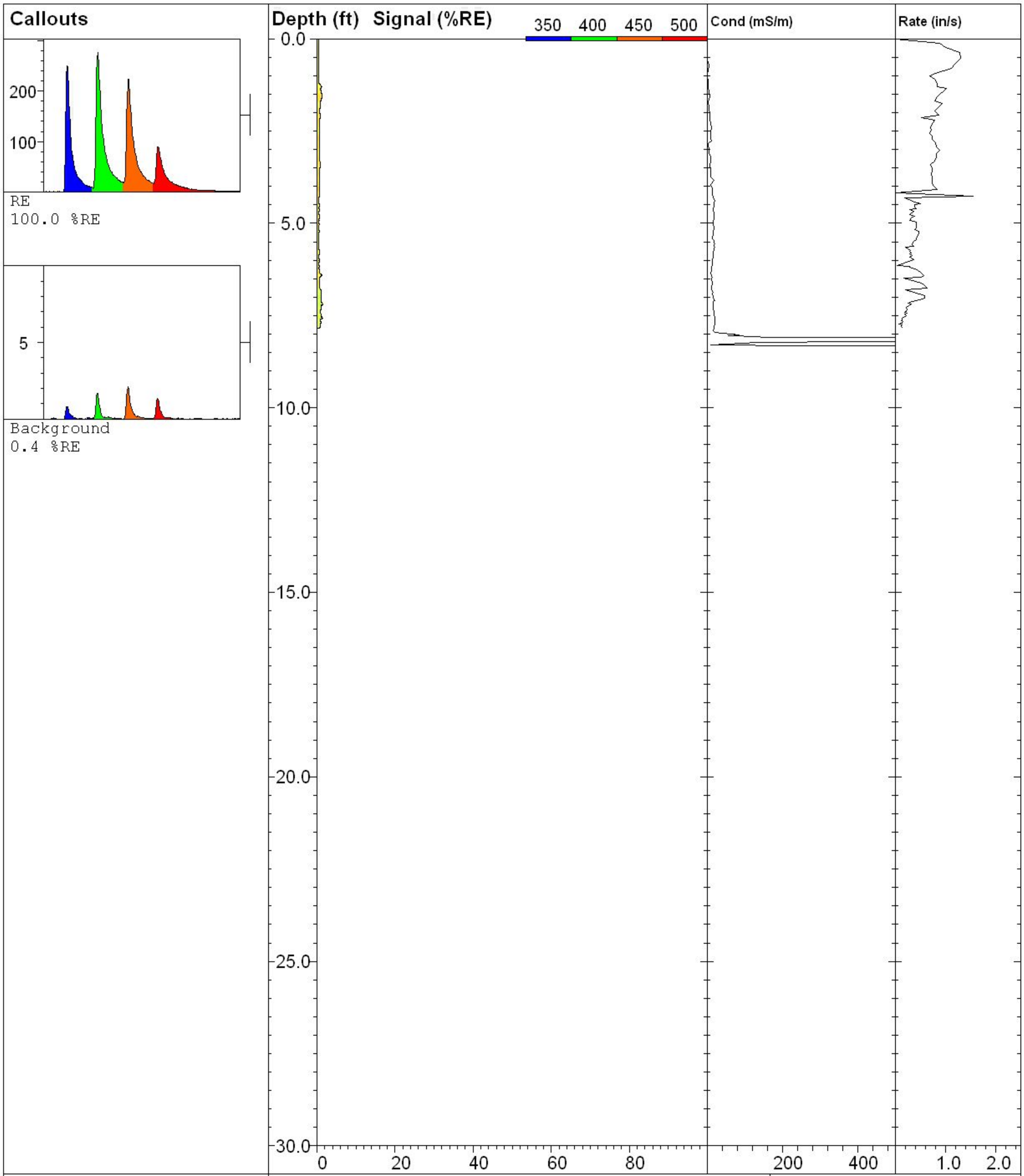
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-10-006**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **28.28 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.5 % @ 18.90 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-26 13:20 CDT**



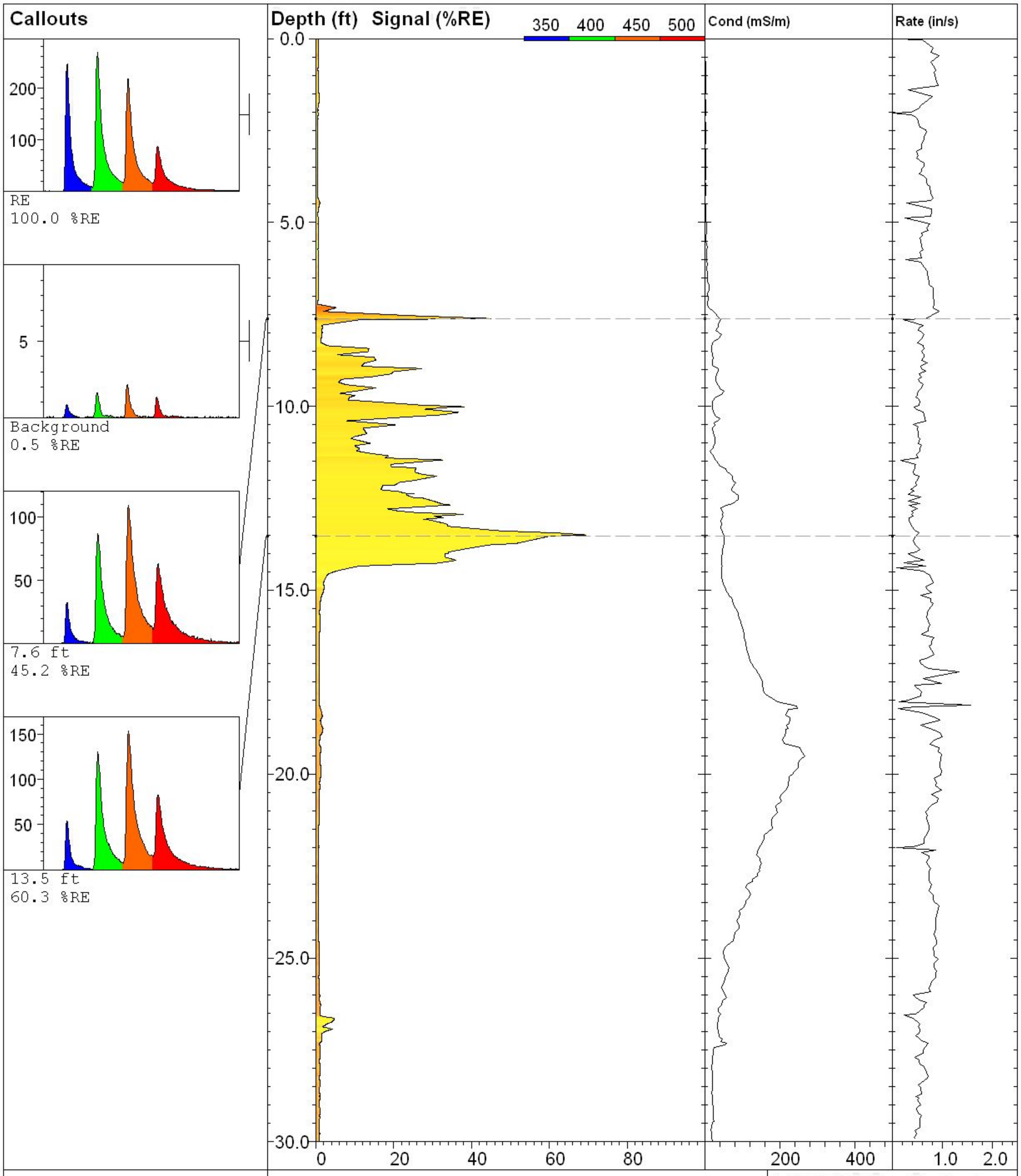
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-10-007**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.6 % @ 29.67 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-26 13:56 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-10-008**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **29.11 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **54.3 % @ 6.79 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-26 14:38 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-10-009**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **7.84 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.5 % @ 7.20 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-26 15:12 CDT**



LIF-10-010		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.05 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **69.7 % @ 13.50 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-26 15:57 CDT**

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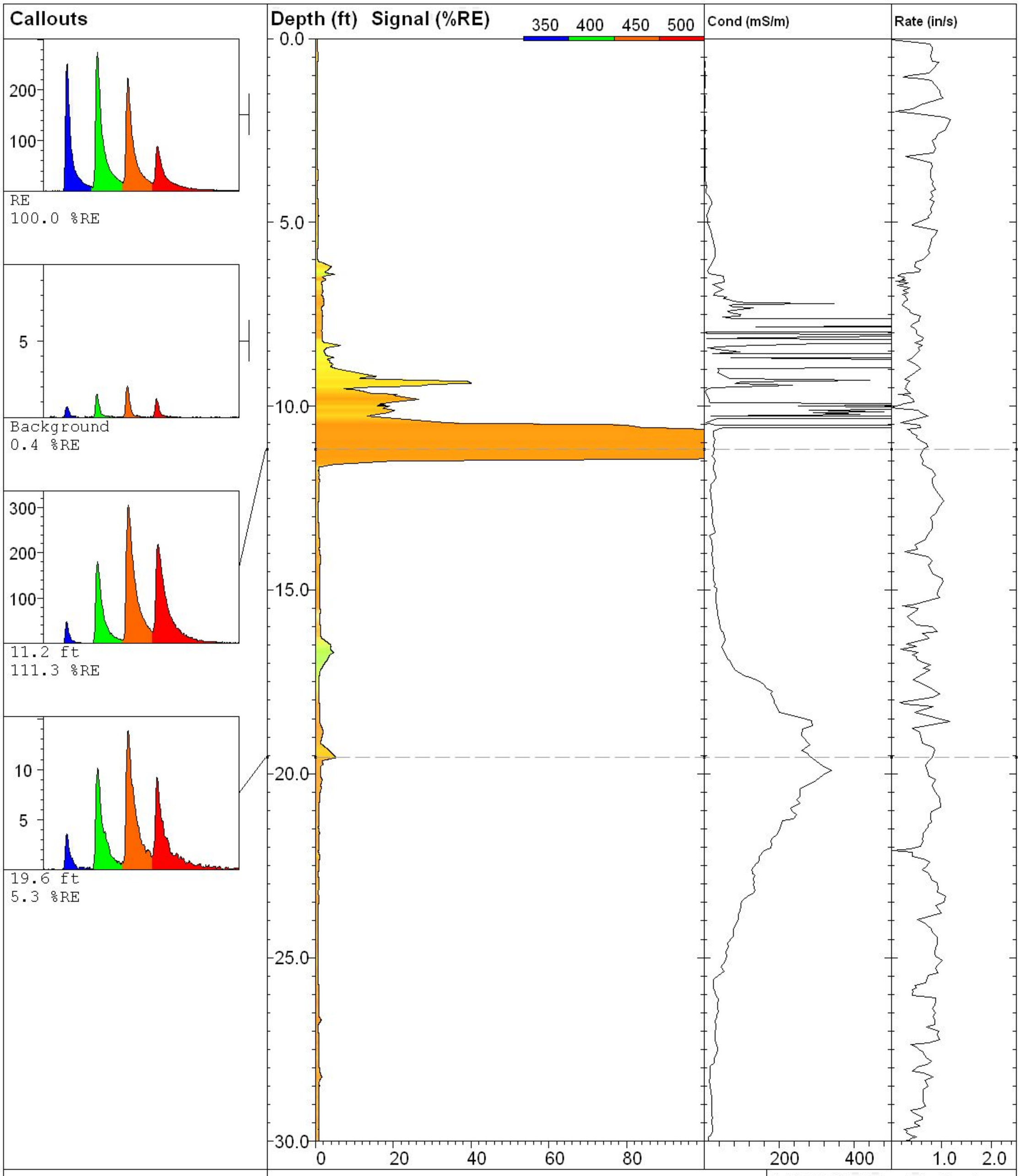
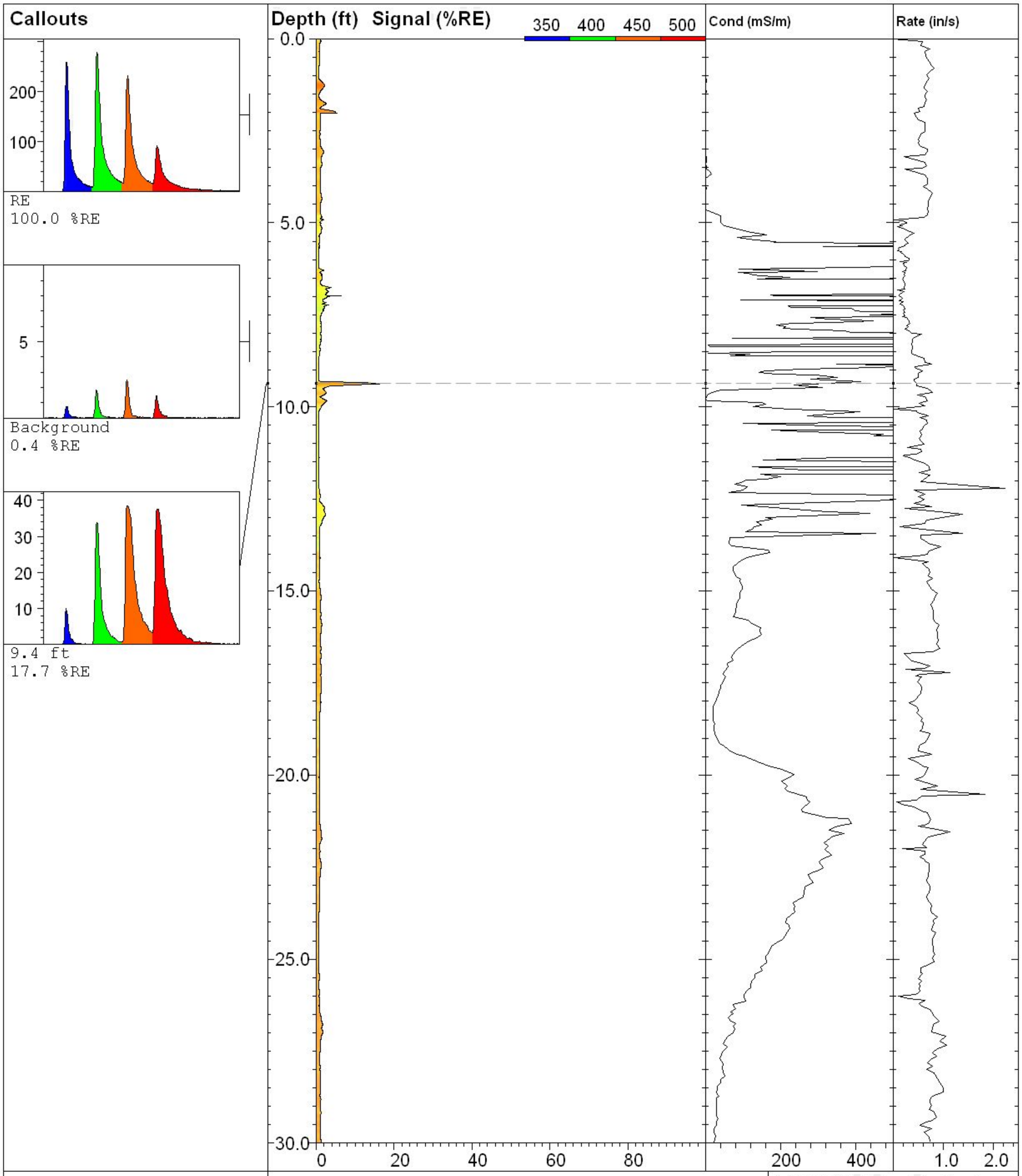
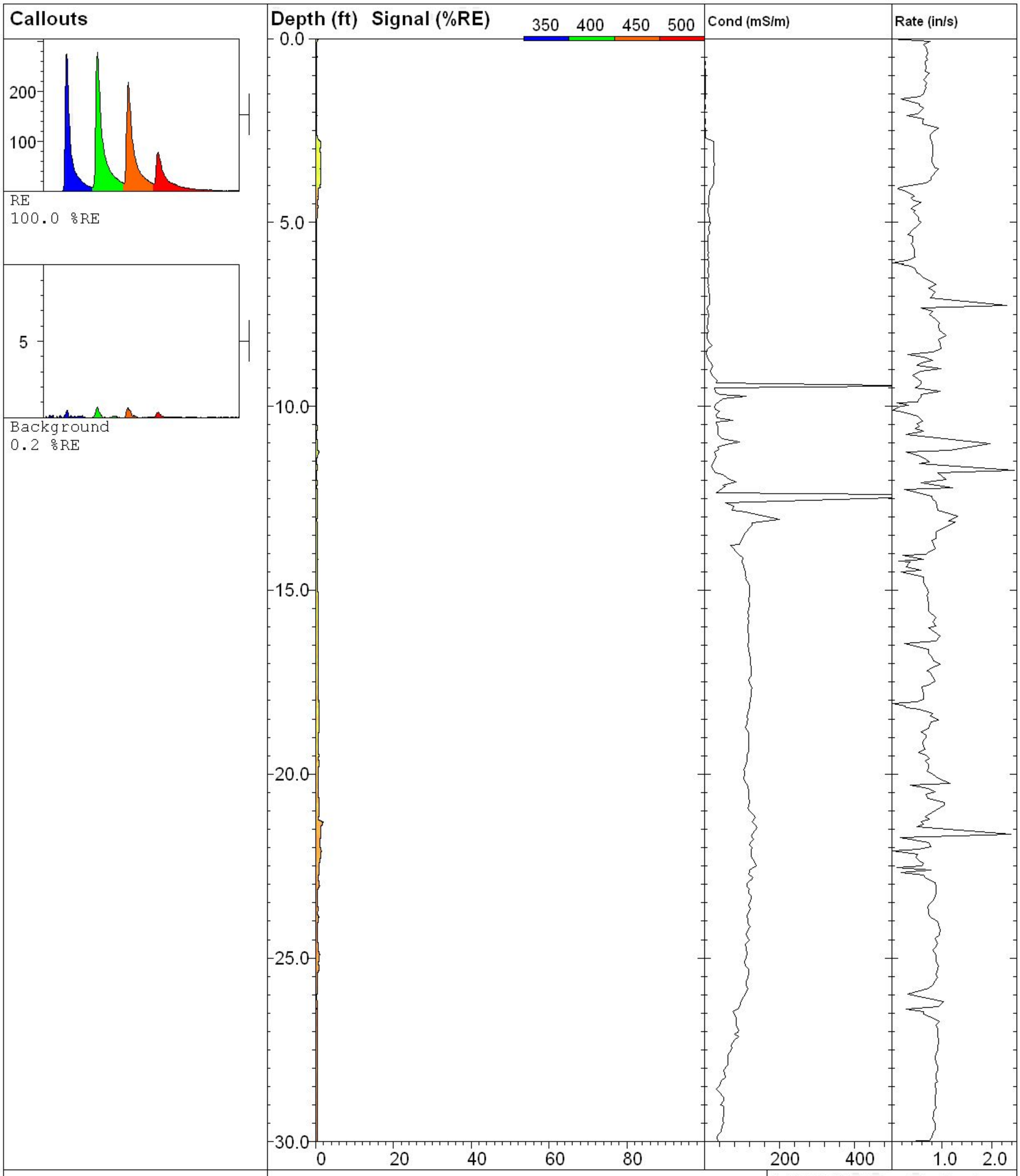
www.matrixenv.com



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-10-011**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **113.3 % @ 10.68 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-26 16:32 CDT**

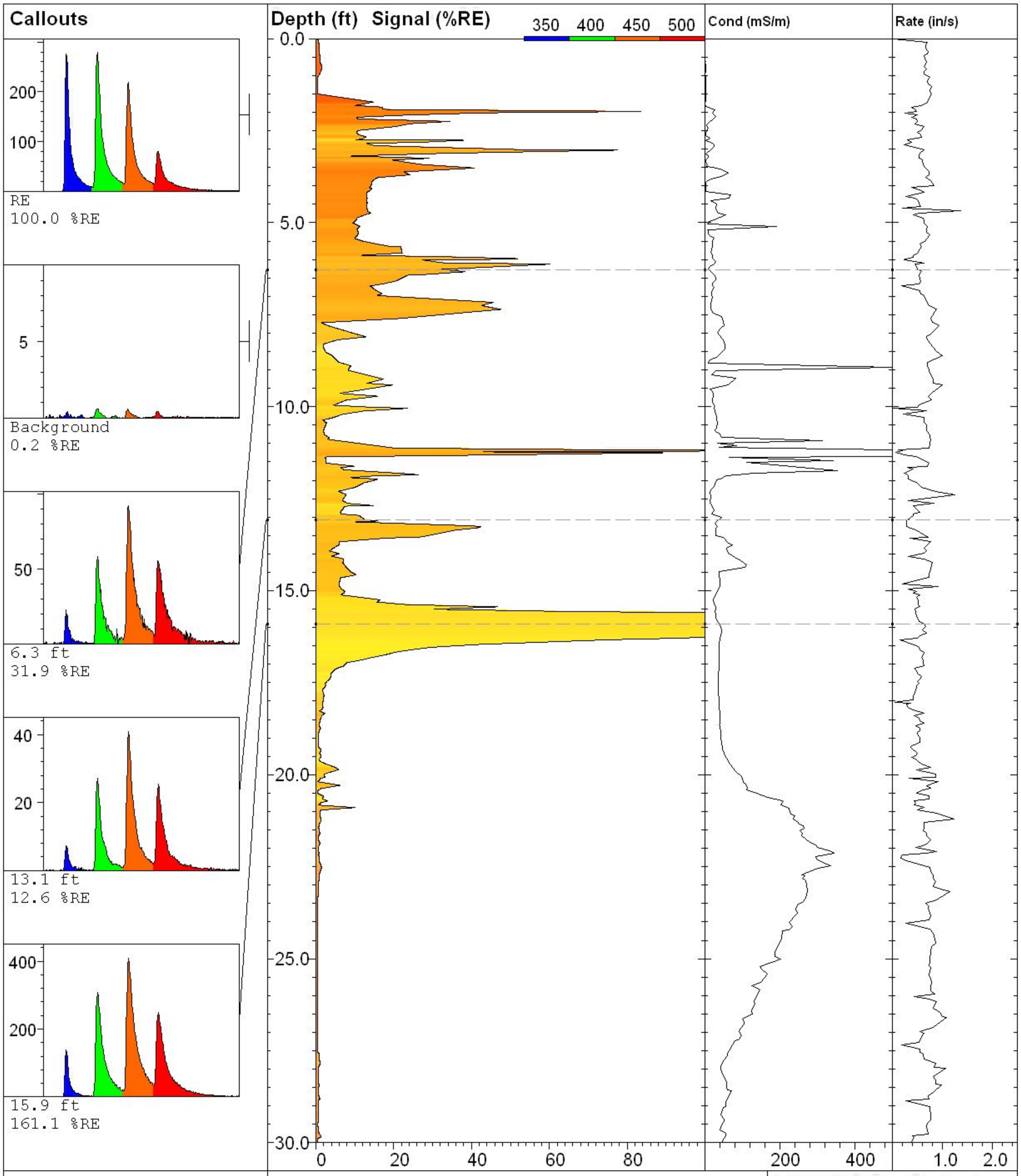


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-10-012**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **17.7 % @ 9.37 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-27 07:18 CDT**



LIF-10-013		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.8 % @ 21.31 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-27 08:28 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

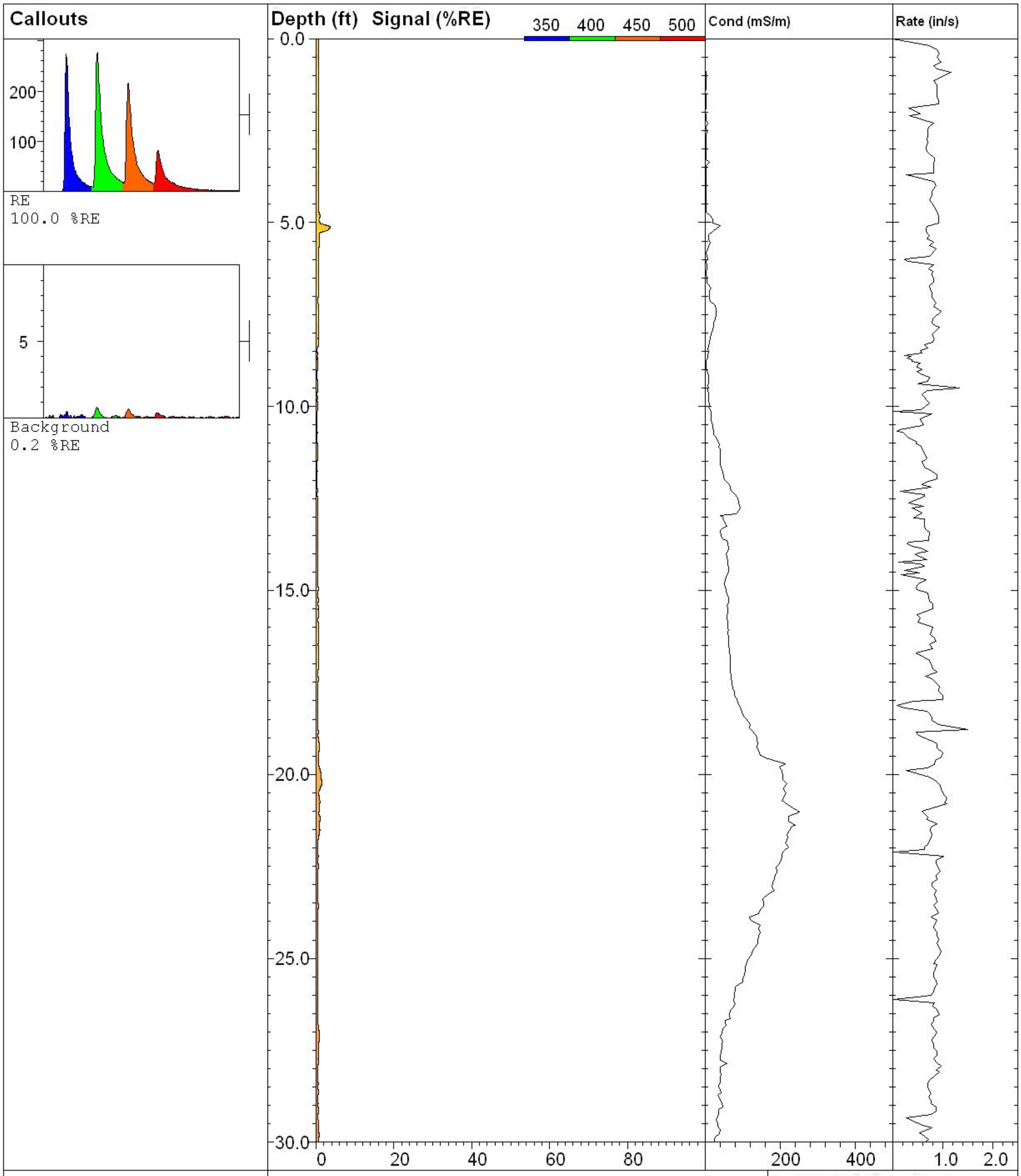


LIF-10-014

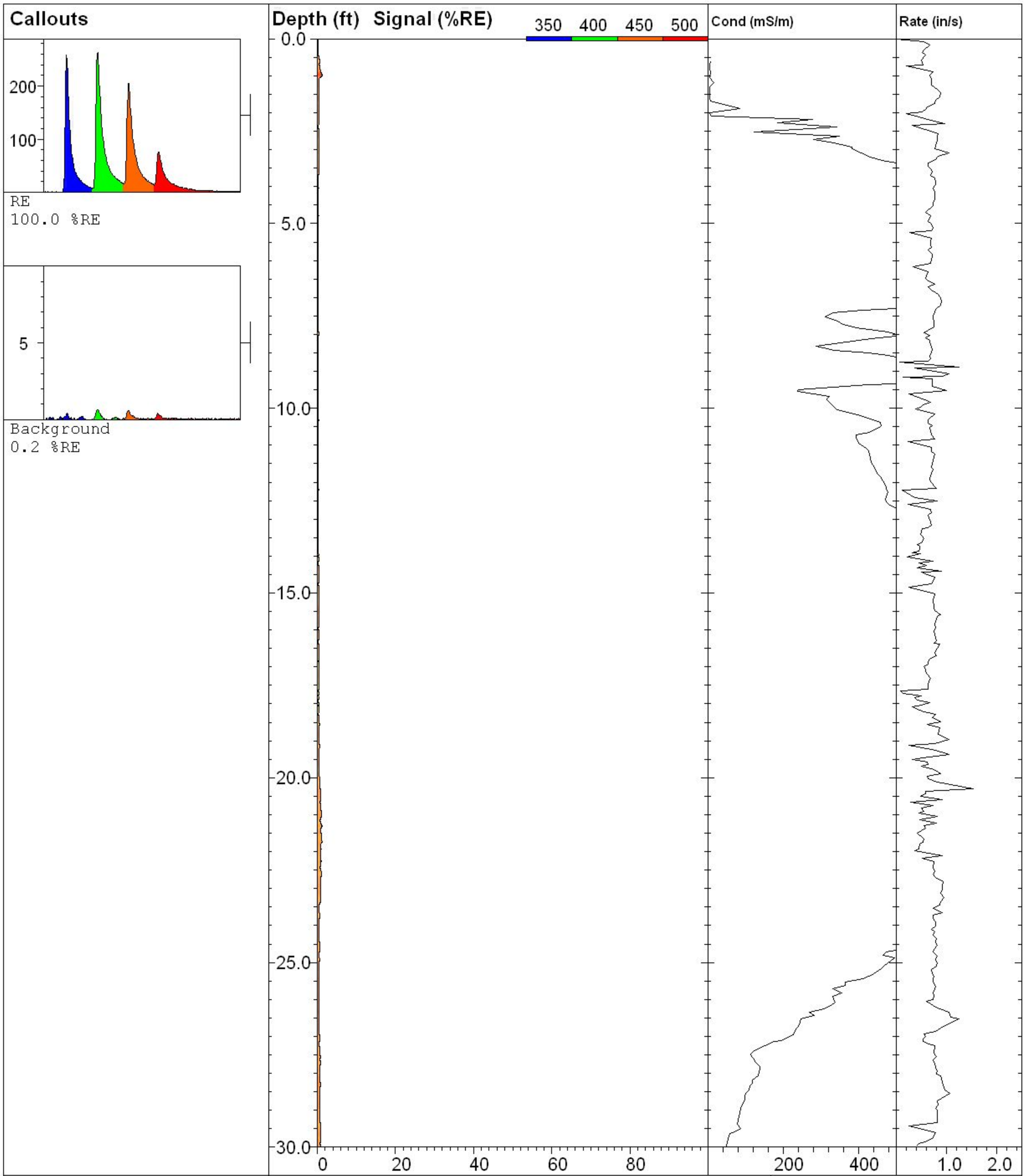
UVOST By Dakota
www.DakotaTechnologies.com

Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.02 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **172.3 % @ 15.68 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-27 09:08 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

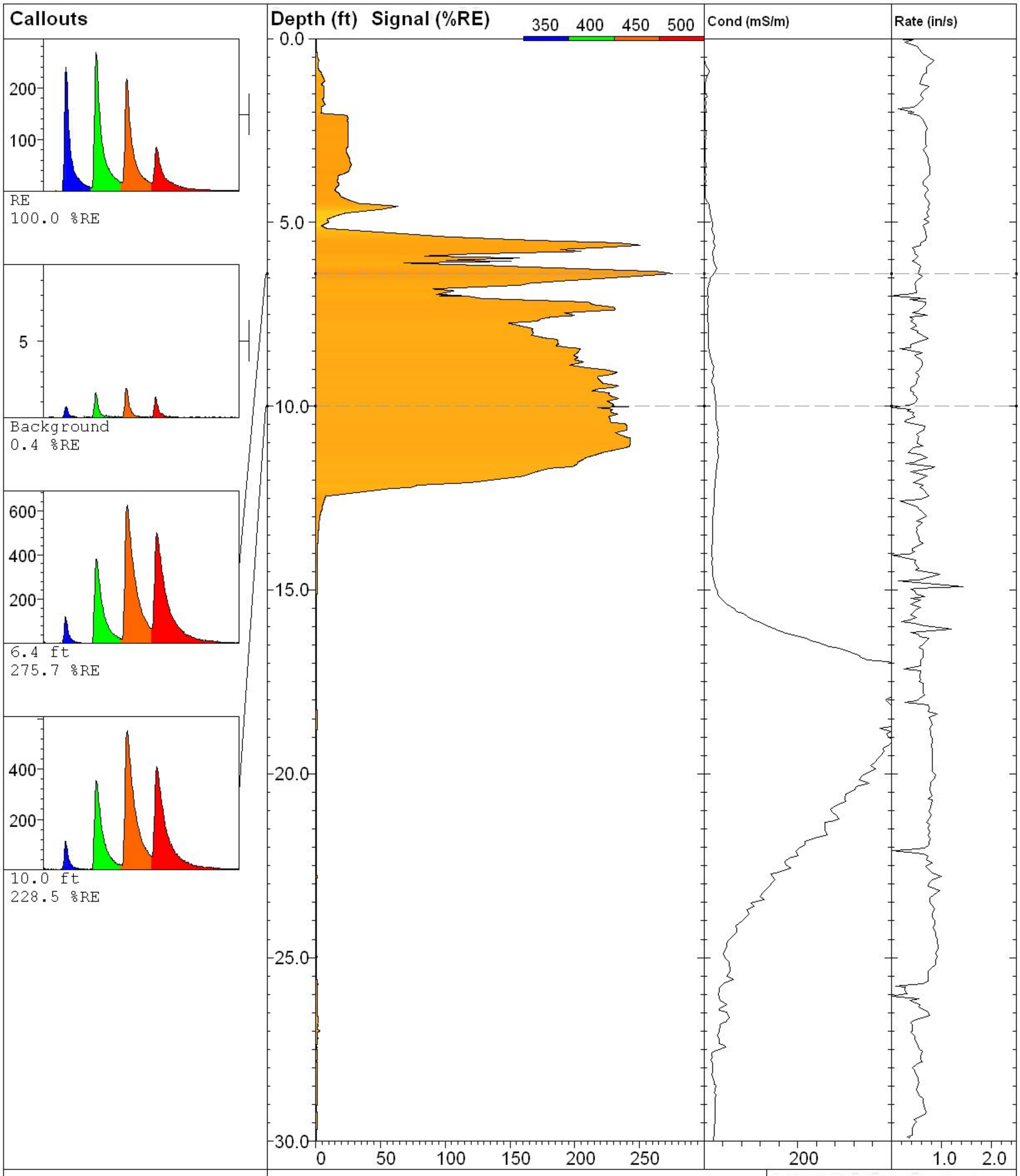


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-10-015**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.06 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **3.7 % @ 5.11 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-27 09:59 CDT**

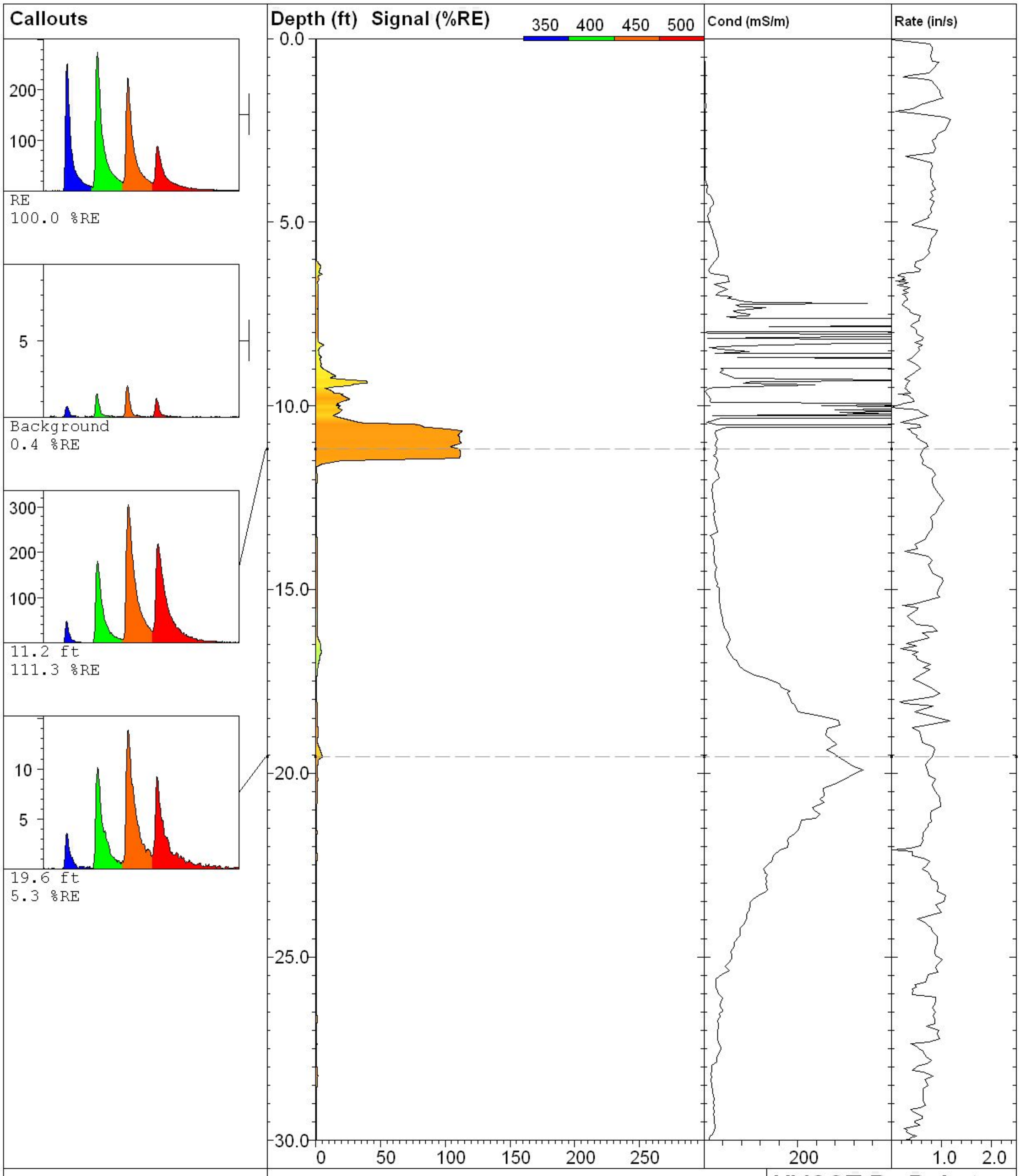


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-10-016**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.4 % @ 0.99 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-27 10:40 CDT**

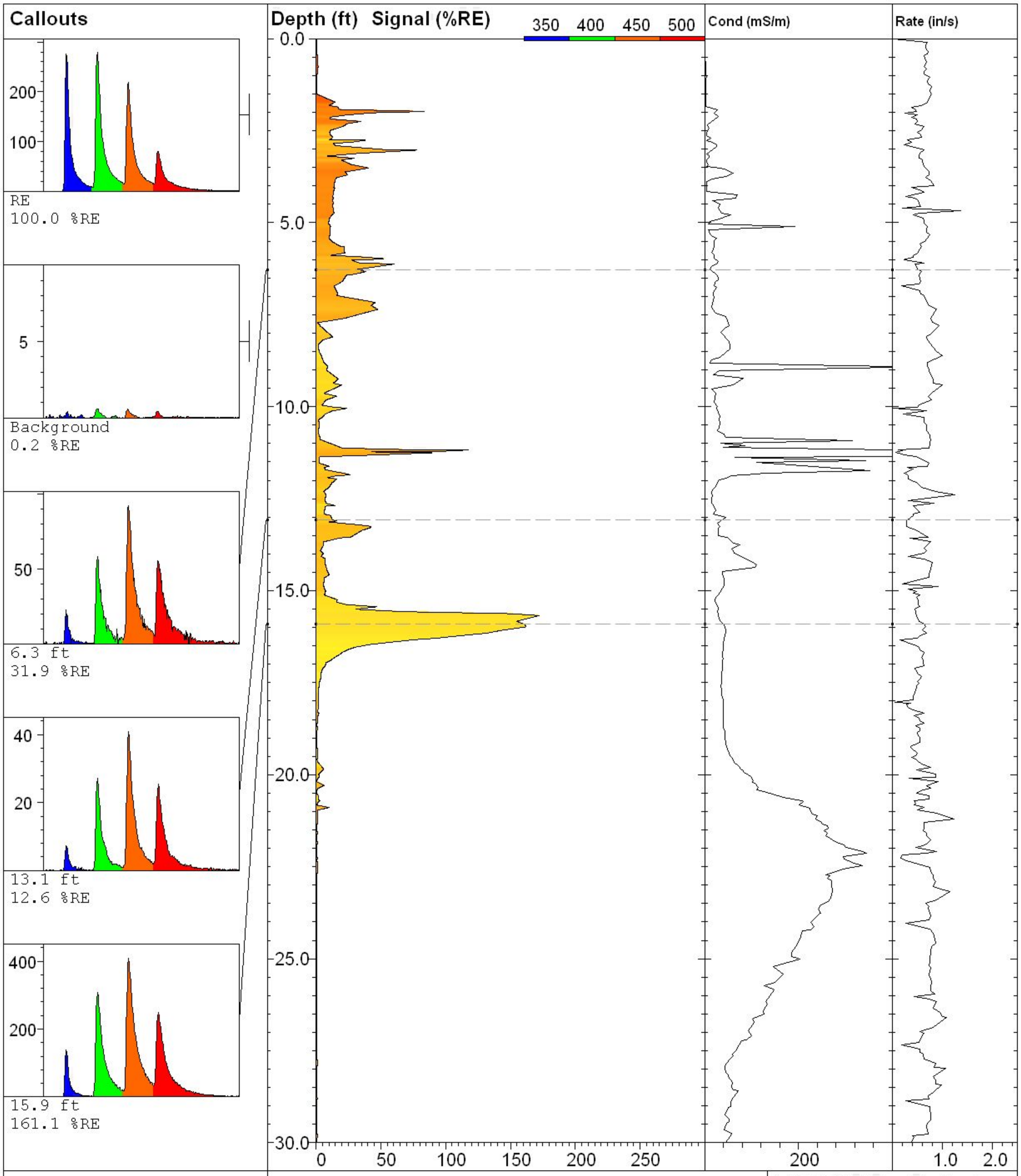
UVOST LOGS
@ 300% RE



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-10-002**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.07 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **275.7 % @ 6.39 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-26 09:49 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-10-011**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **113.3 % @ 10.68 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-26 16:32 CDT**



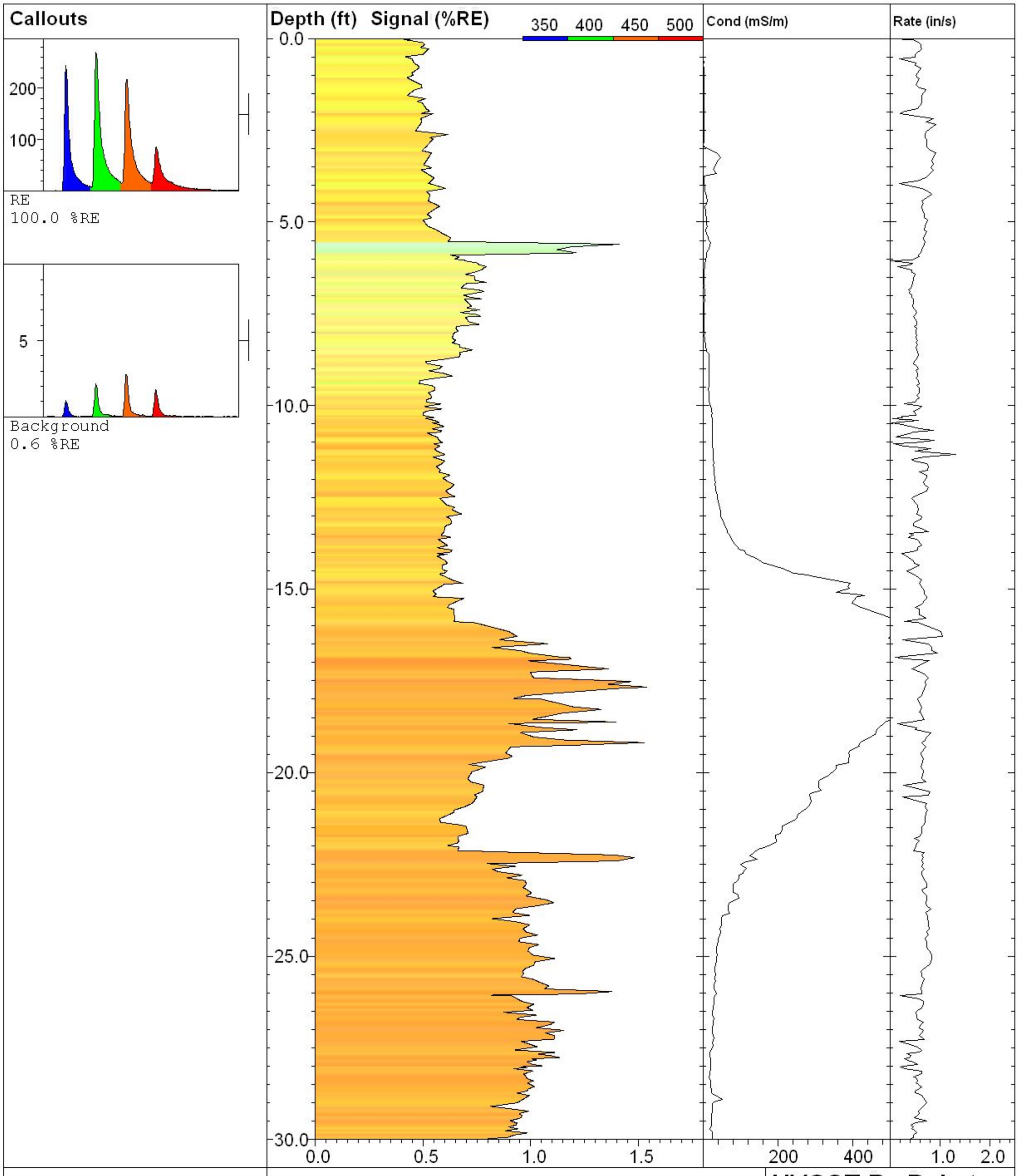
MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

LIF-10-014

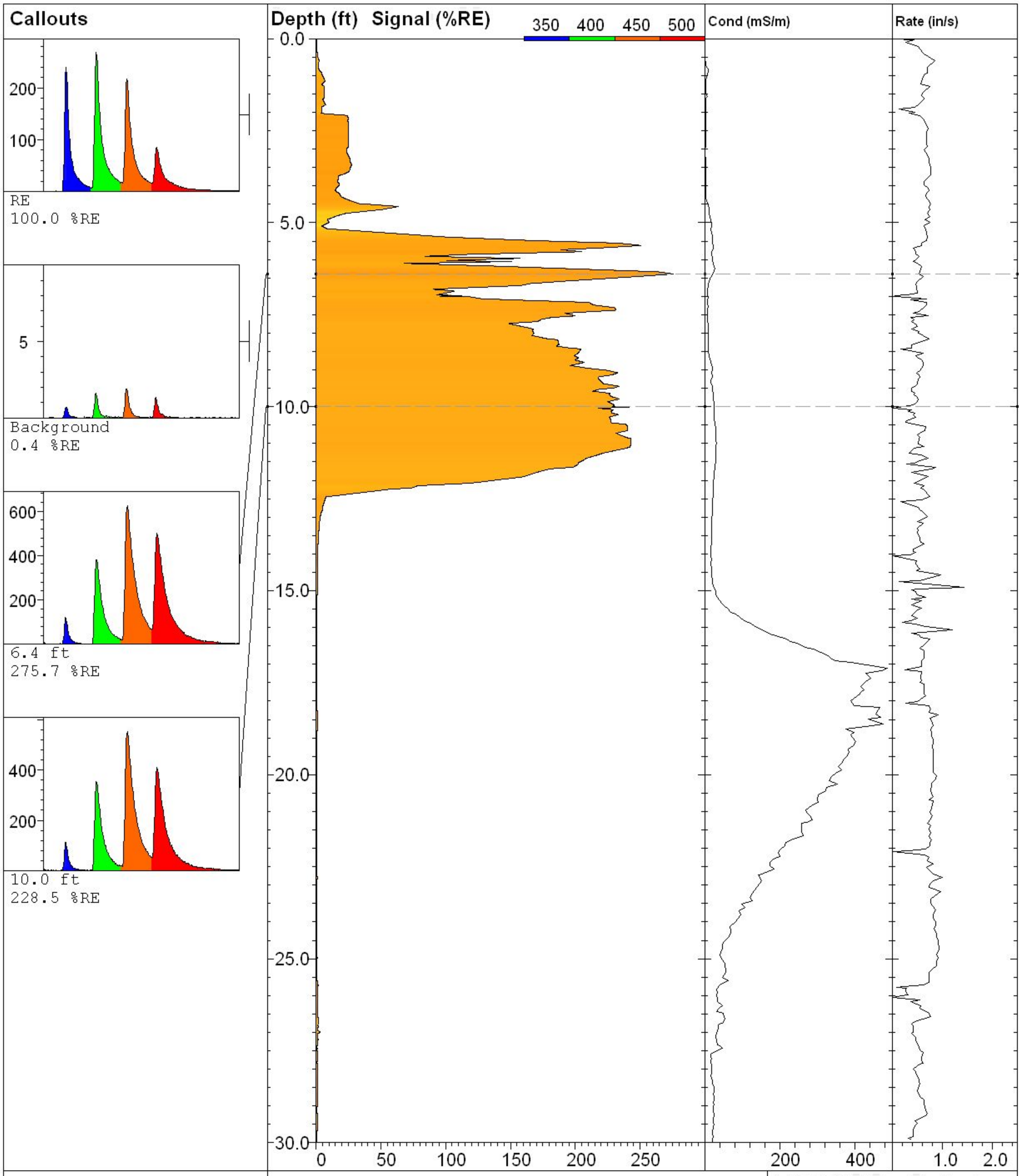
UVOST By Dakota
www.DakotaTechnologies.com

Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.02 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **172.3 % @ 15.68 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-27 09:08 CDT**

UVOST LOGS
@ Best Fit Scale



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-10-001**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.5 % @ 17.67 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-26 09:10 CDT**

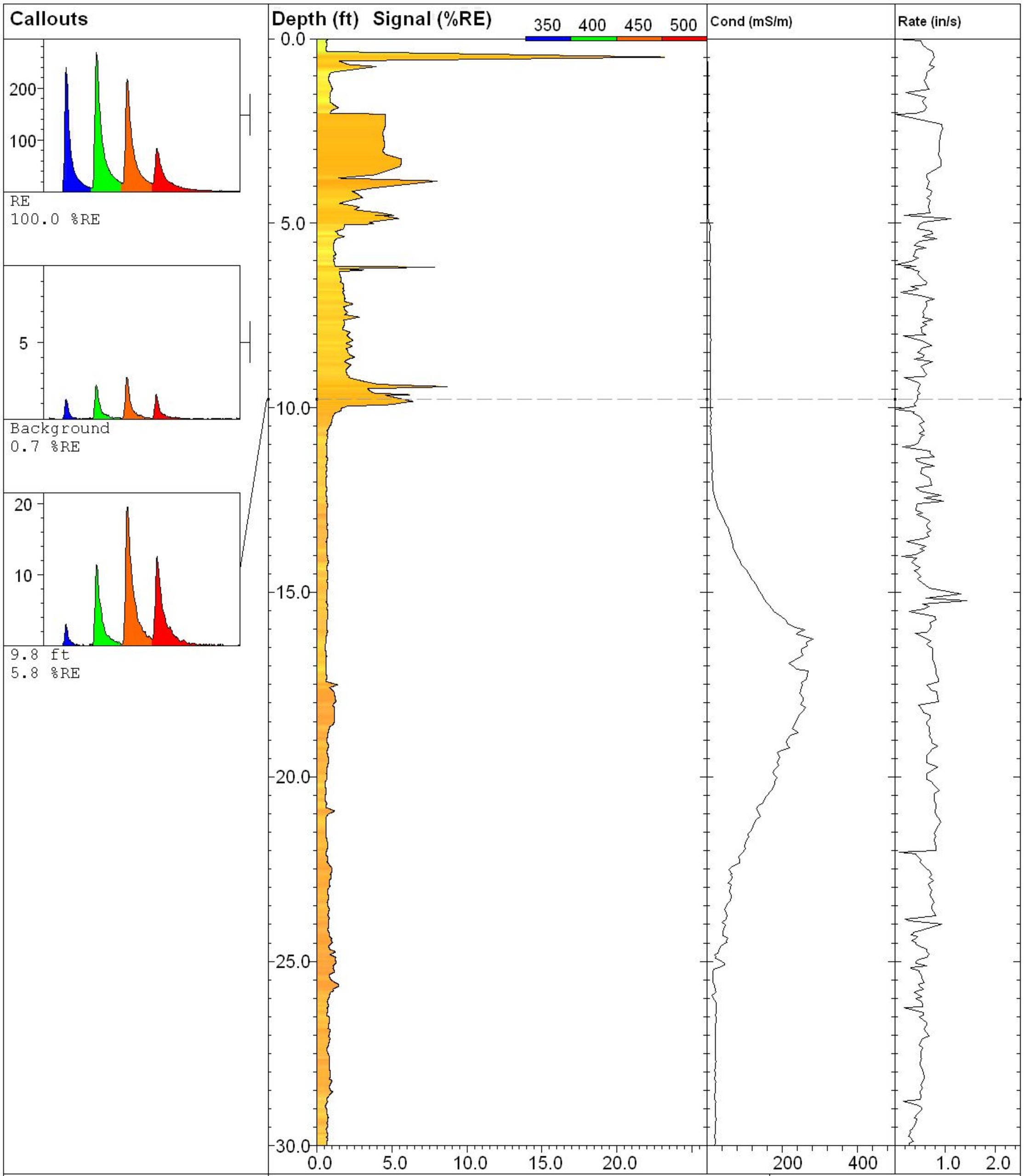


MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

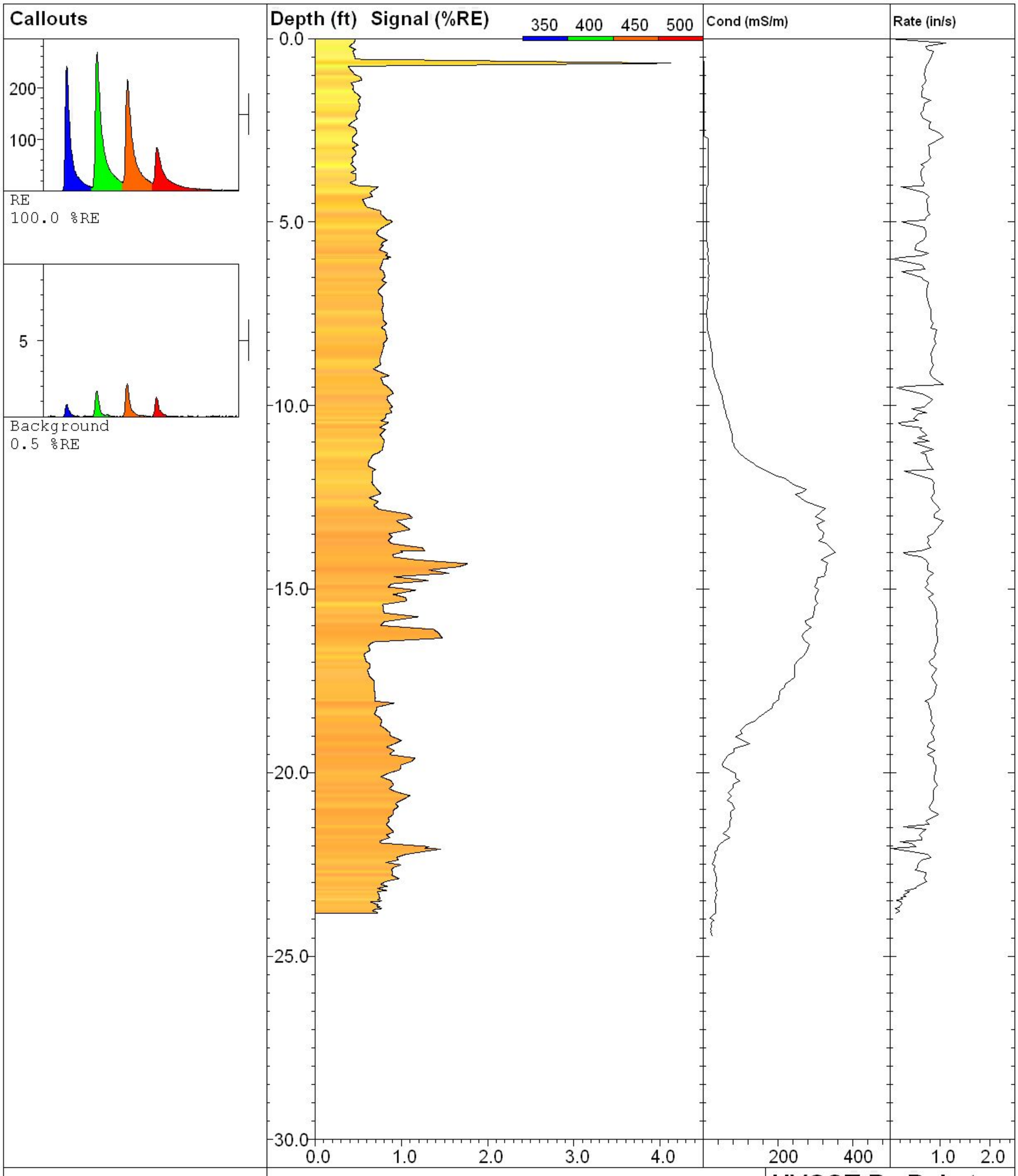
LIF-10-002

UVOST By Dakota
www.DakotaTechnologies.com

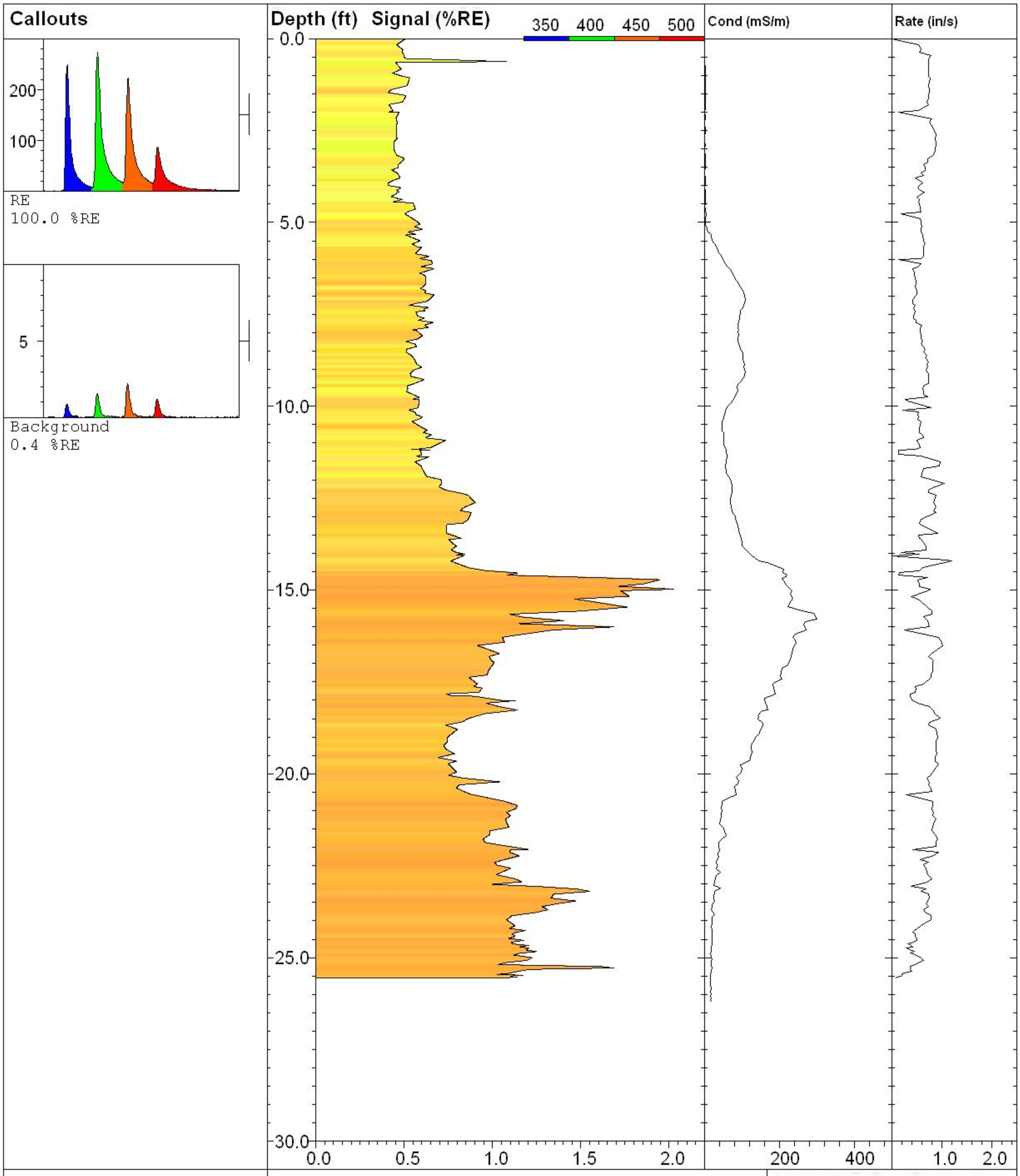
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.07 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **275.7 % @ 6.39 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-26 09:49 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-10-003**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.04 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **23.3 % @ 0.50 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-26 10:36 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-10-004**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **23.82 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **4.2 % @ 0.67 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-26 11:16 CDT**

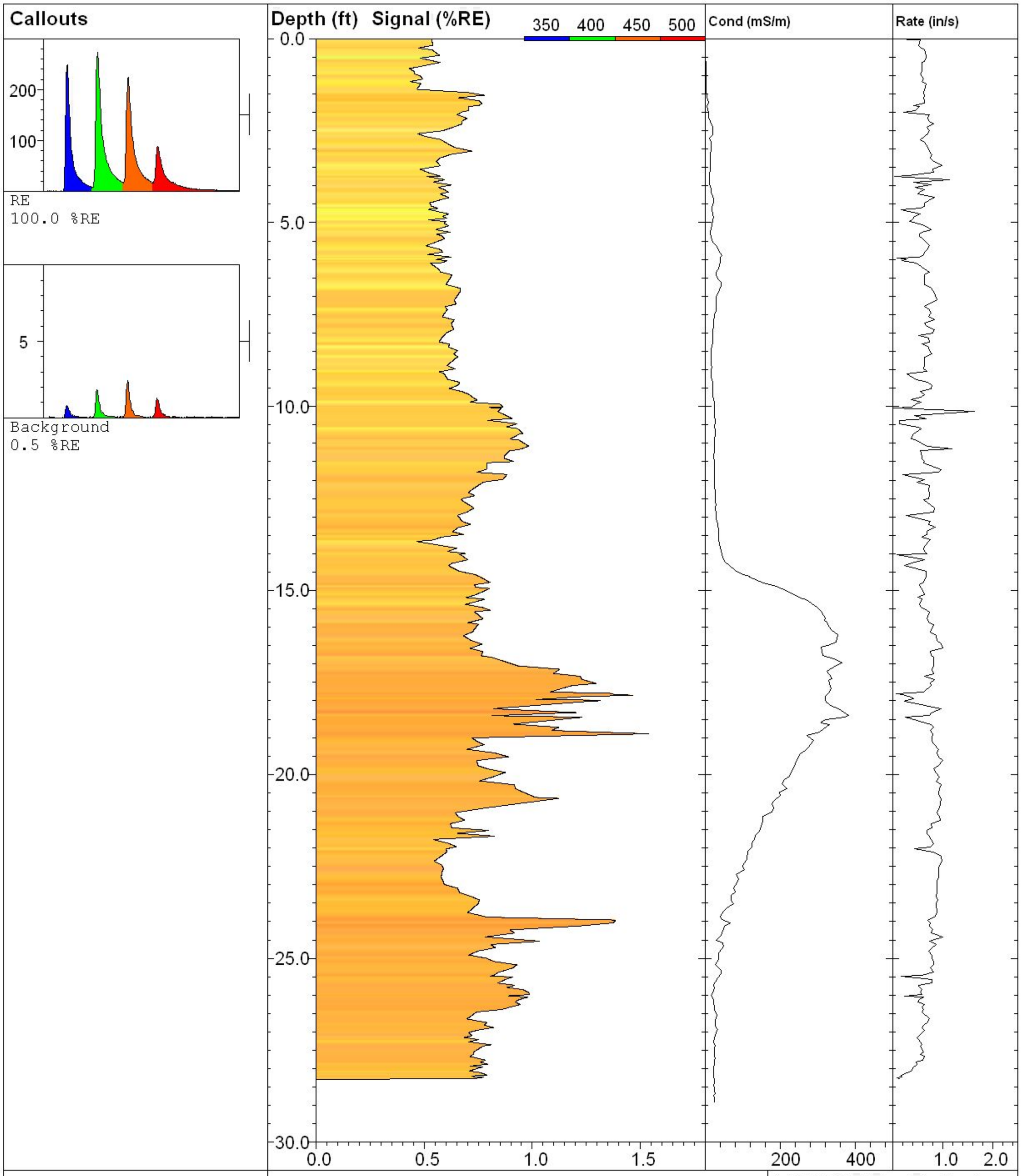


MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

LIF-10-005

UVOST By Dakota
www.DakotaTechnologies.com

Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **25.56 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **2.0 % @ 14.98 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-26 12:41 CDT**

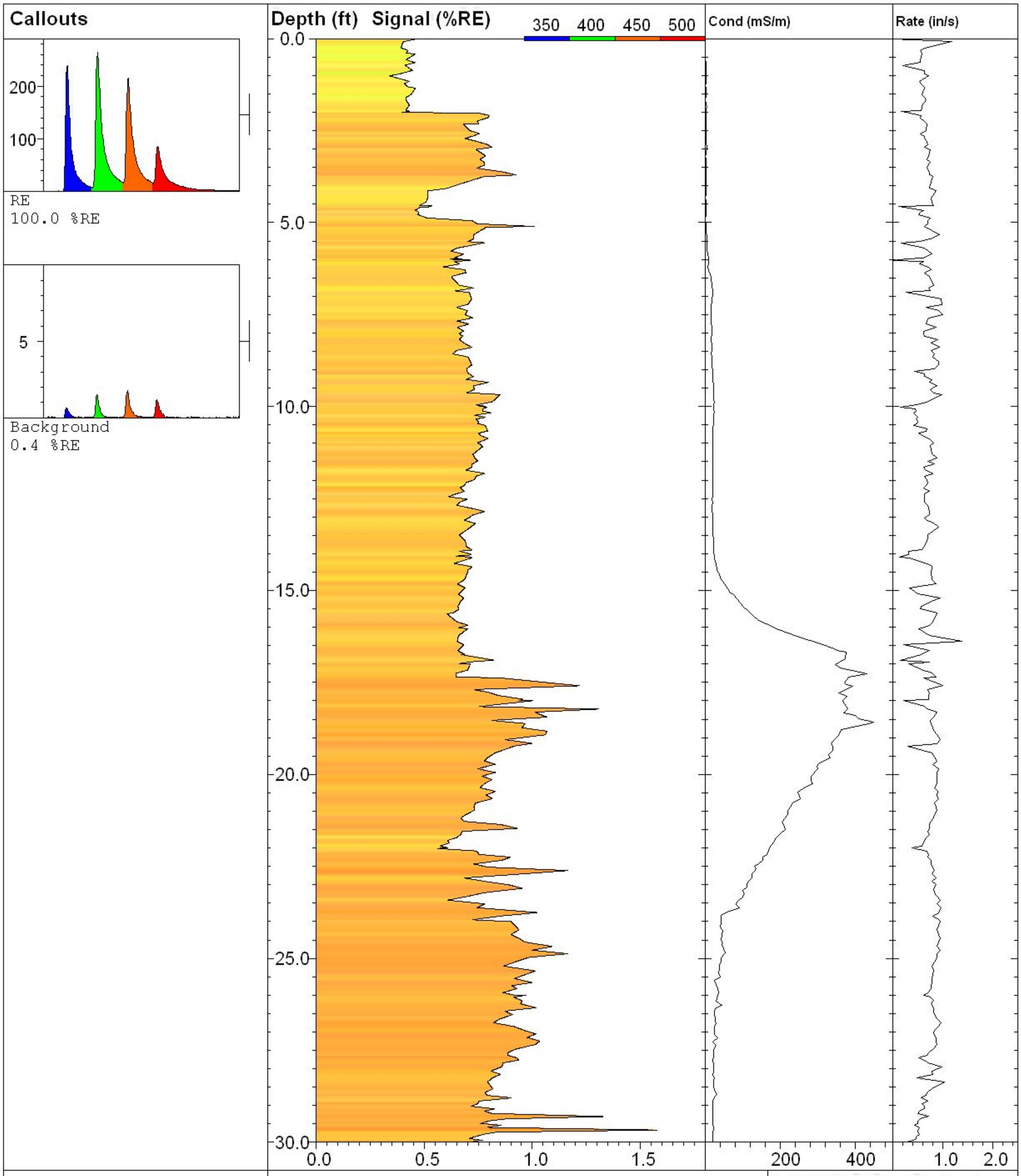


MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

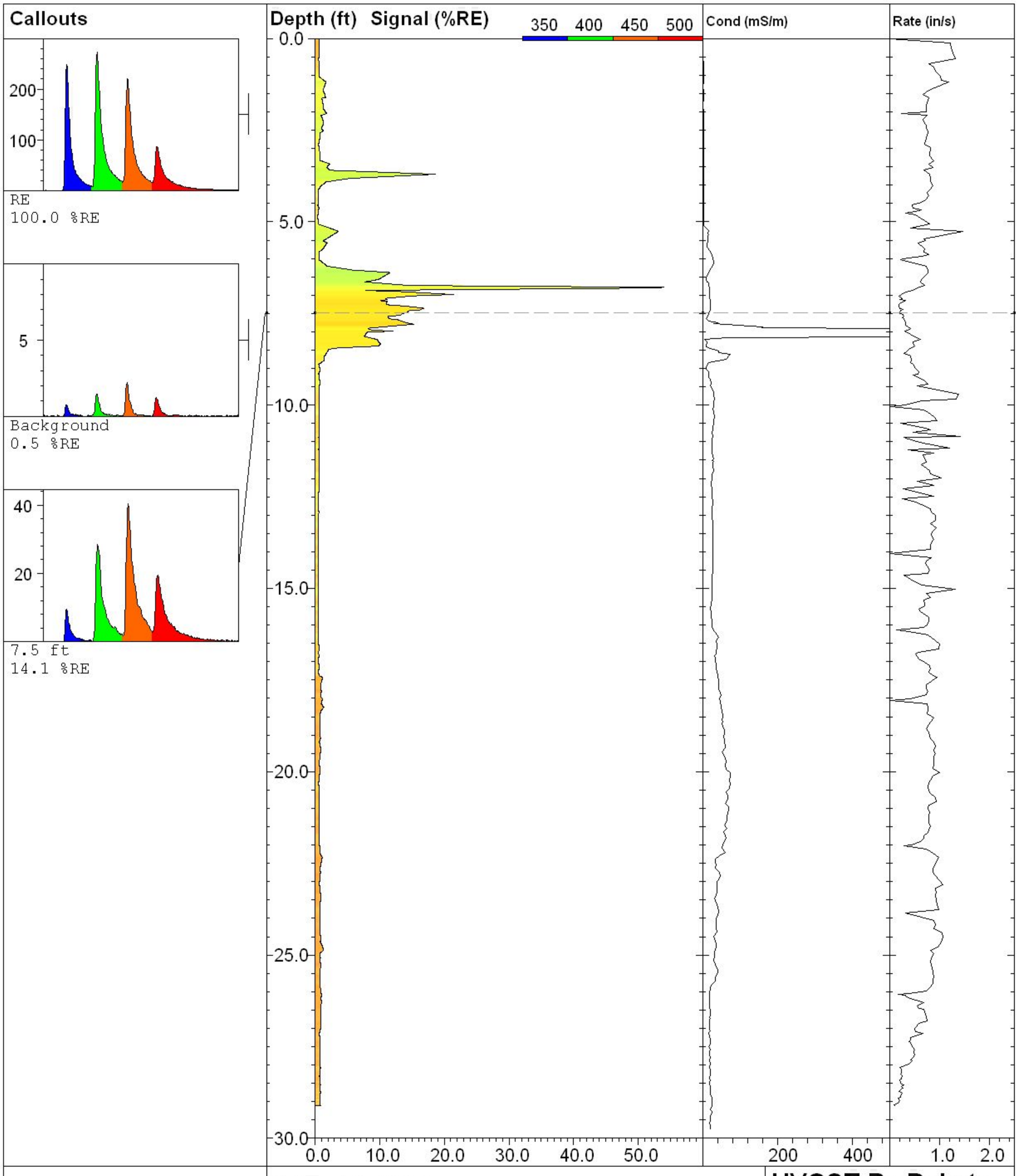
LIF-10-006

UVOST By Dakota
www.DakotaTechnologies.com

Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **28.28 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.5 % @ 18.90 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-26 13:20 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-10-007**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.6 % @ 29.67 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-26 13:56 CDT**

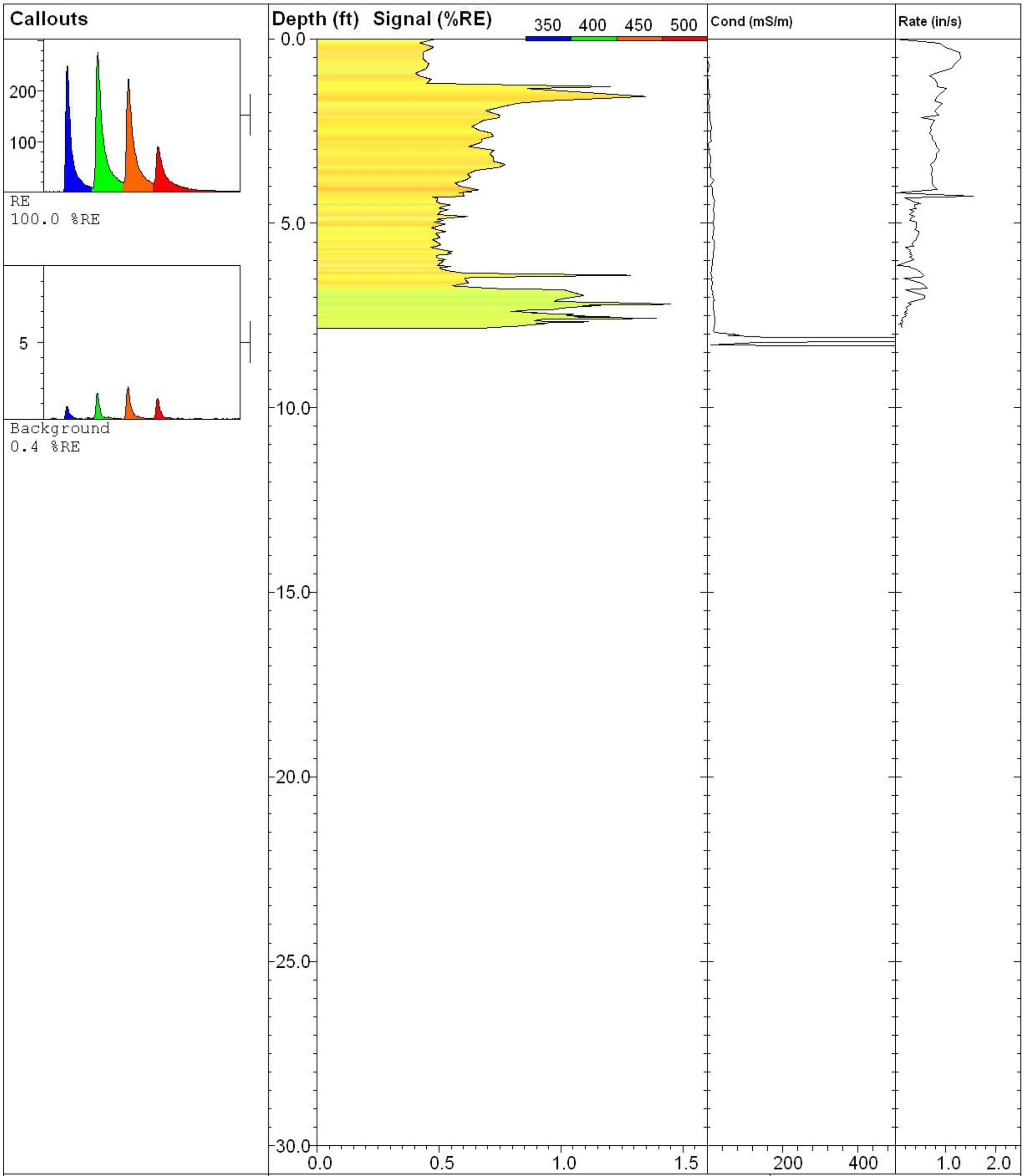


MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

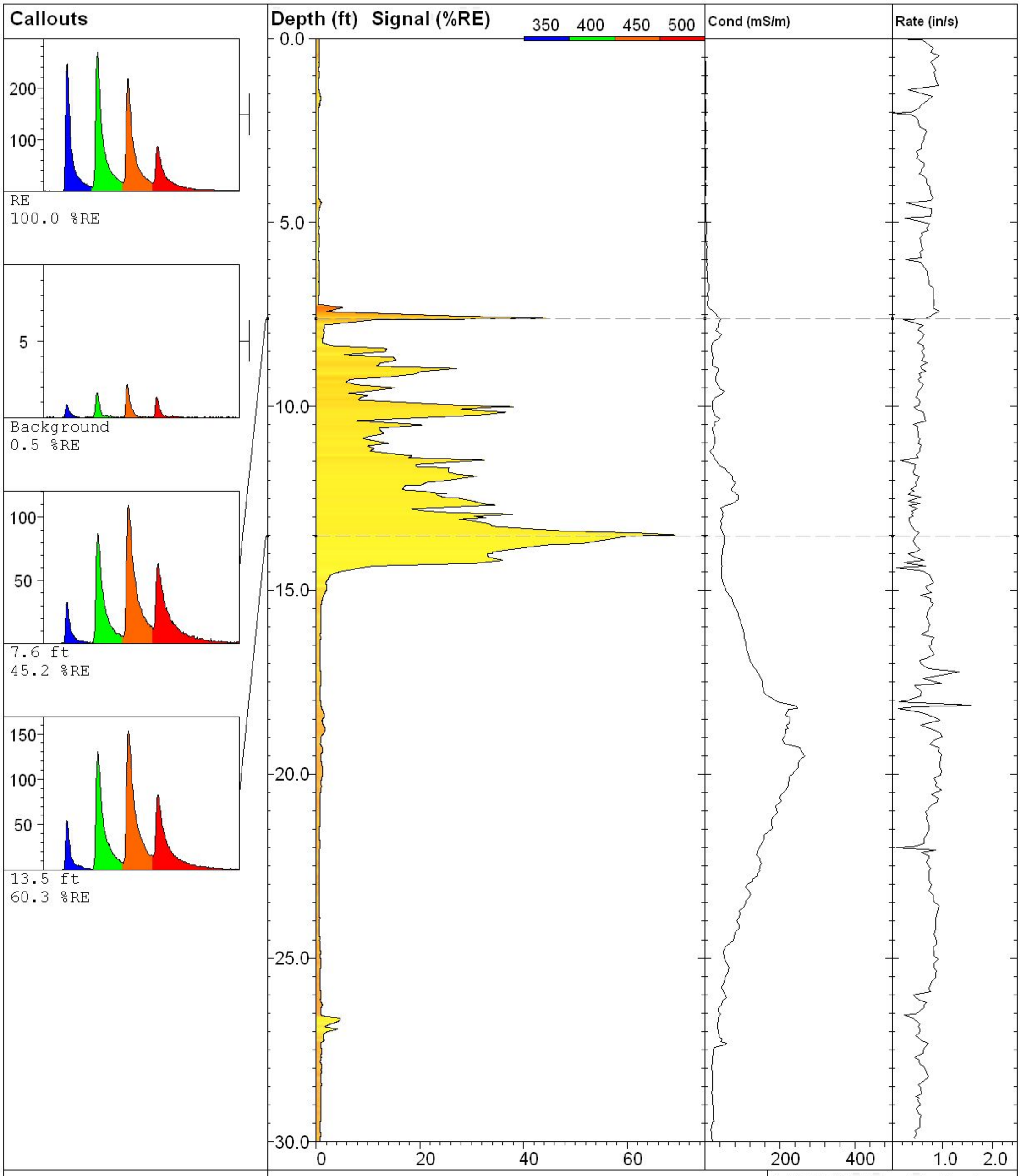
LIF-10-008

UVOST By Dakota
www.DakotaTechnologies.com

Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **29.11 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **54.3 % @ 6.79 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-26 14:38 CDT**

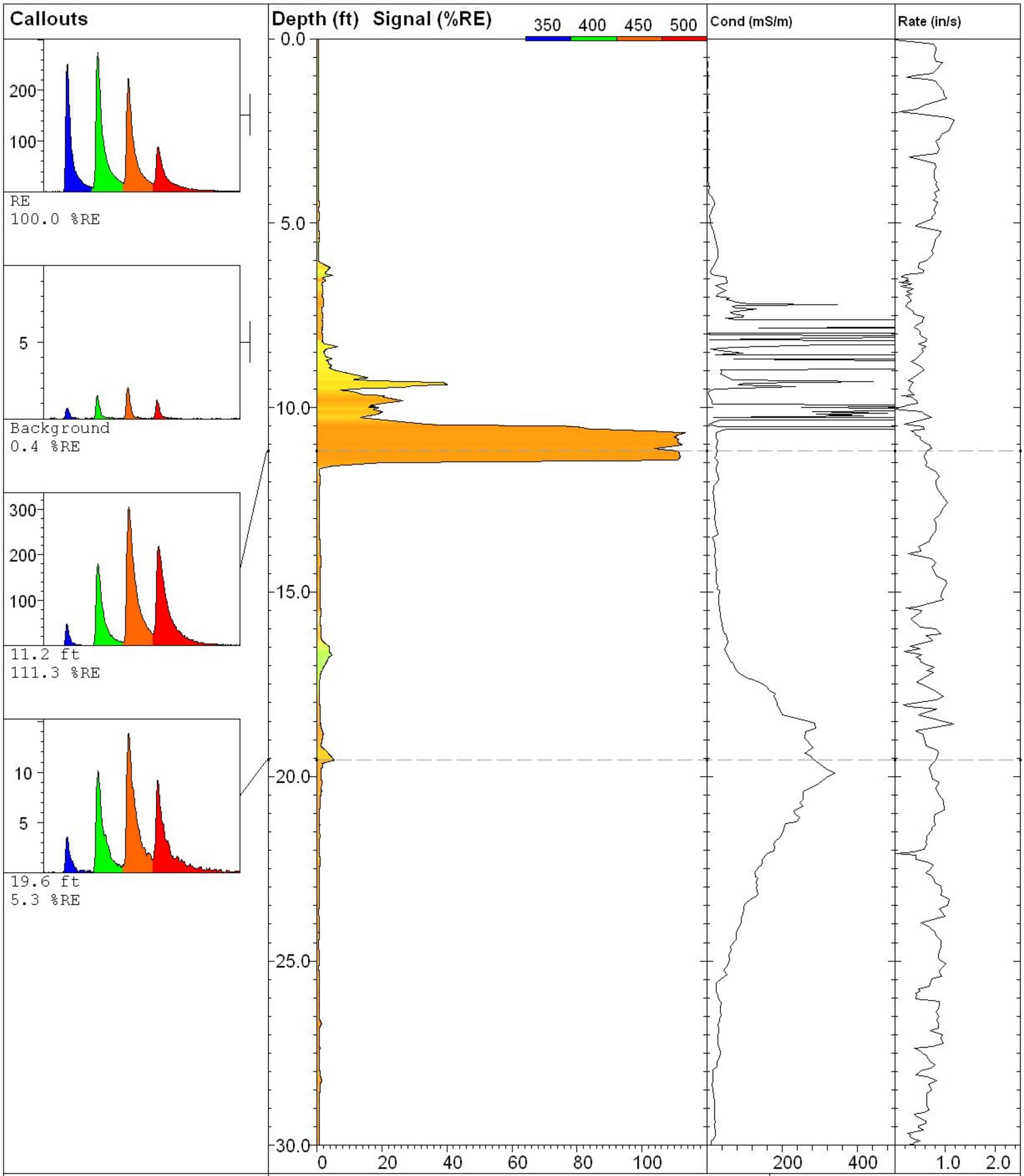


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-10-009**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **7.84 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.5 % @ 7.20 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-26 15:12 CDT**



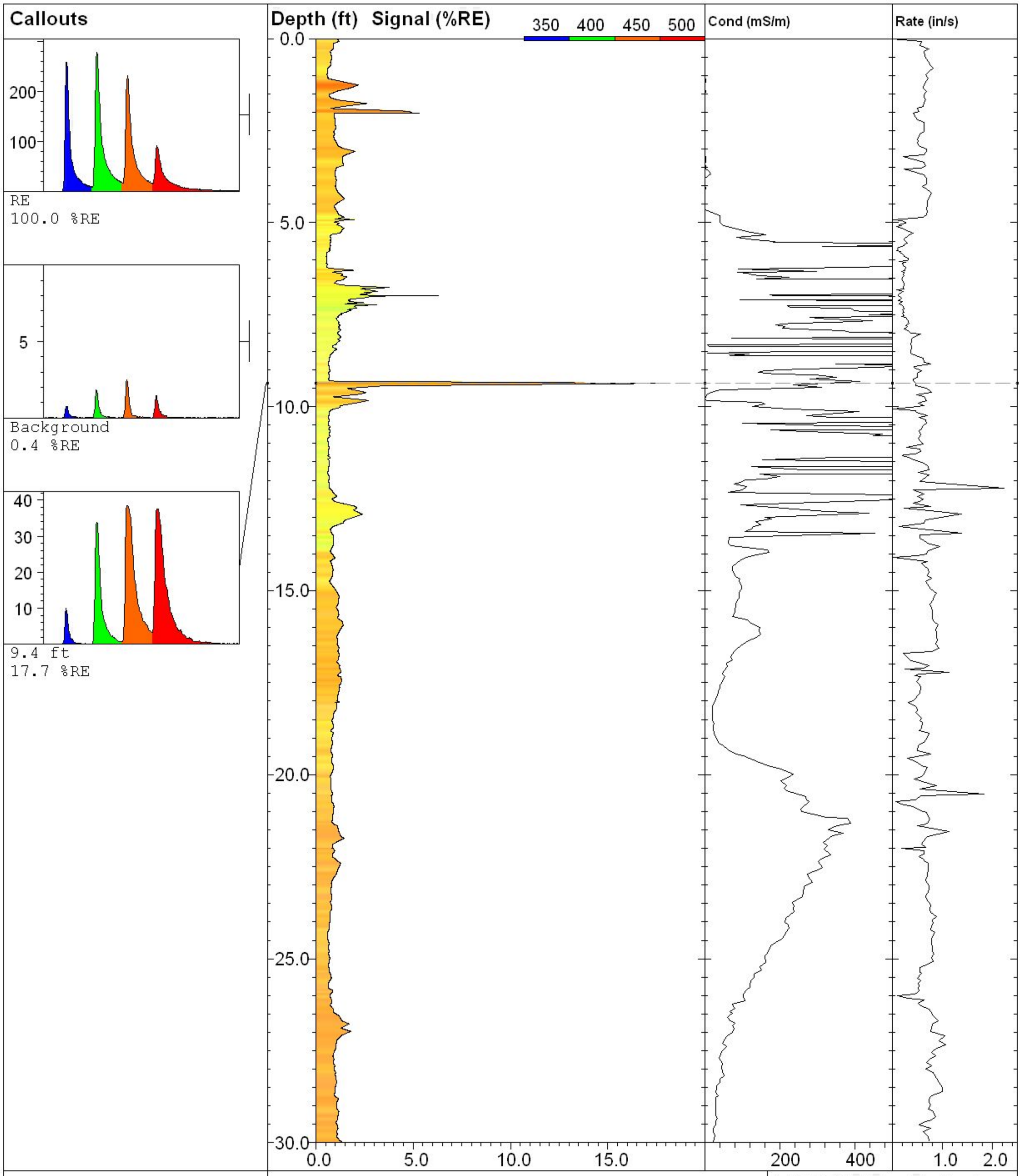
LIF-10-010		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.05 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **69.7 % @ 13.50 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-26 15:57 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

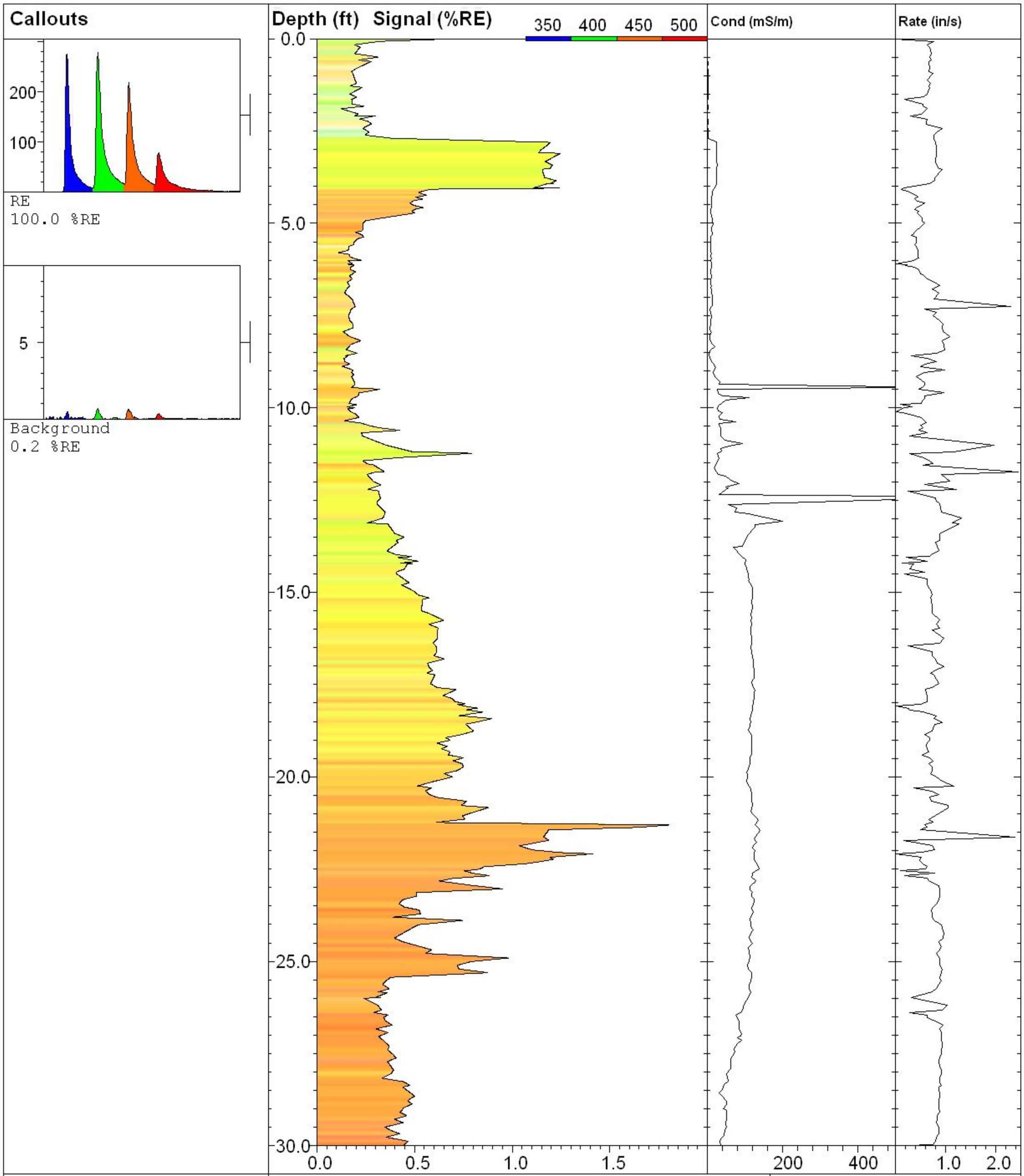


LIF-10-011		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **113.3 % @ 10.68 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-26 16:32 CDT**

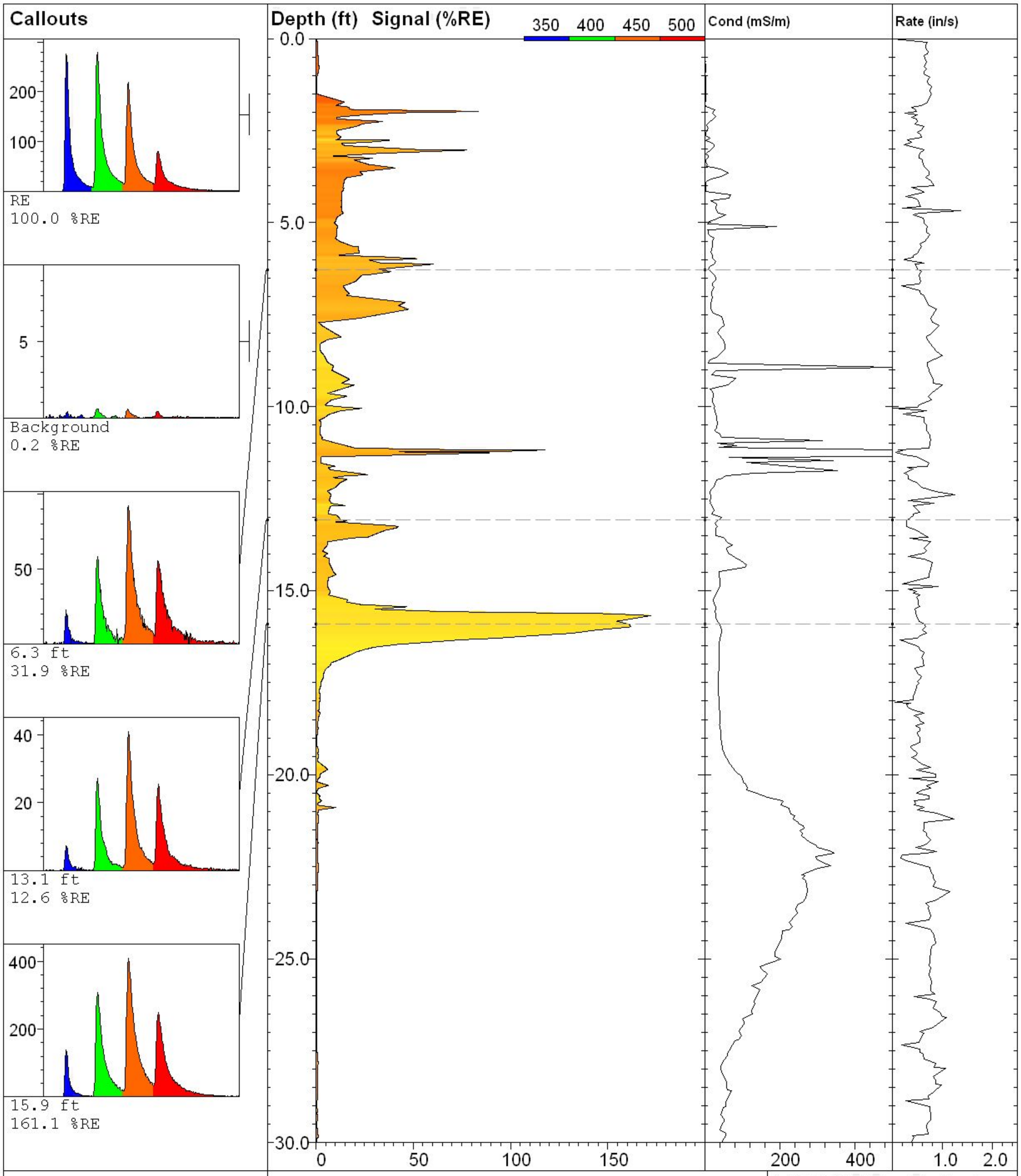
MATRIX ENVIRONMENTAL LLC
www.matrixenv.com



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-10-012**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **17.7 % @ 9.37 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-27 07:18 CDT**

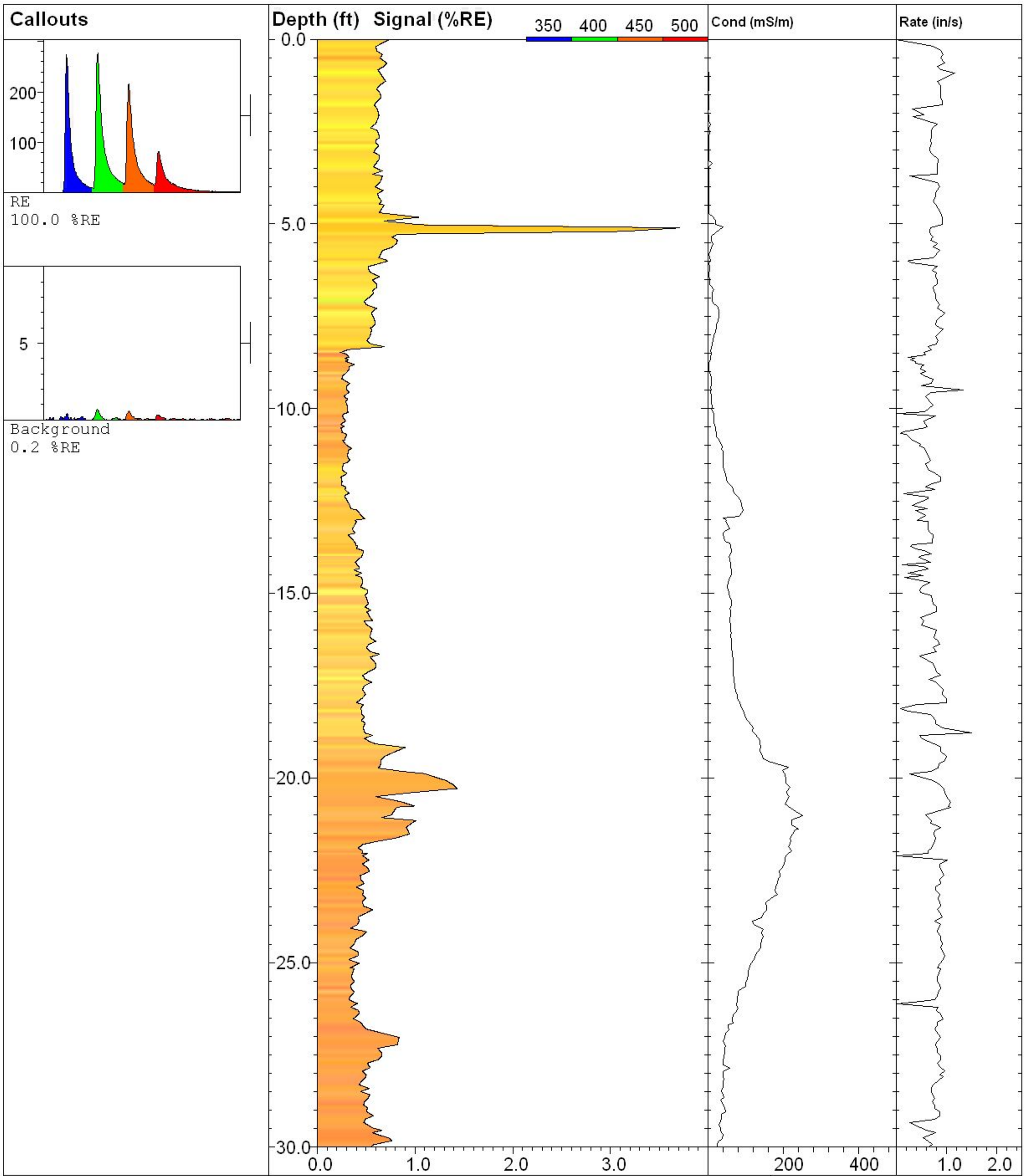


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-10-013**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.8 % @ 21.31 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-27 08:28 CDT**

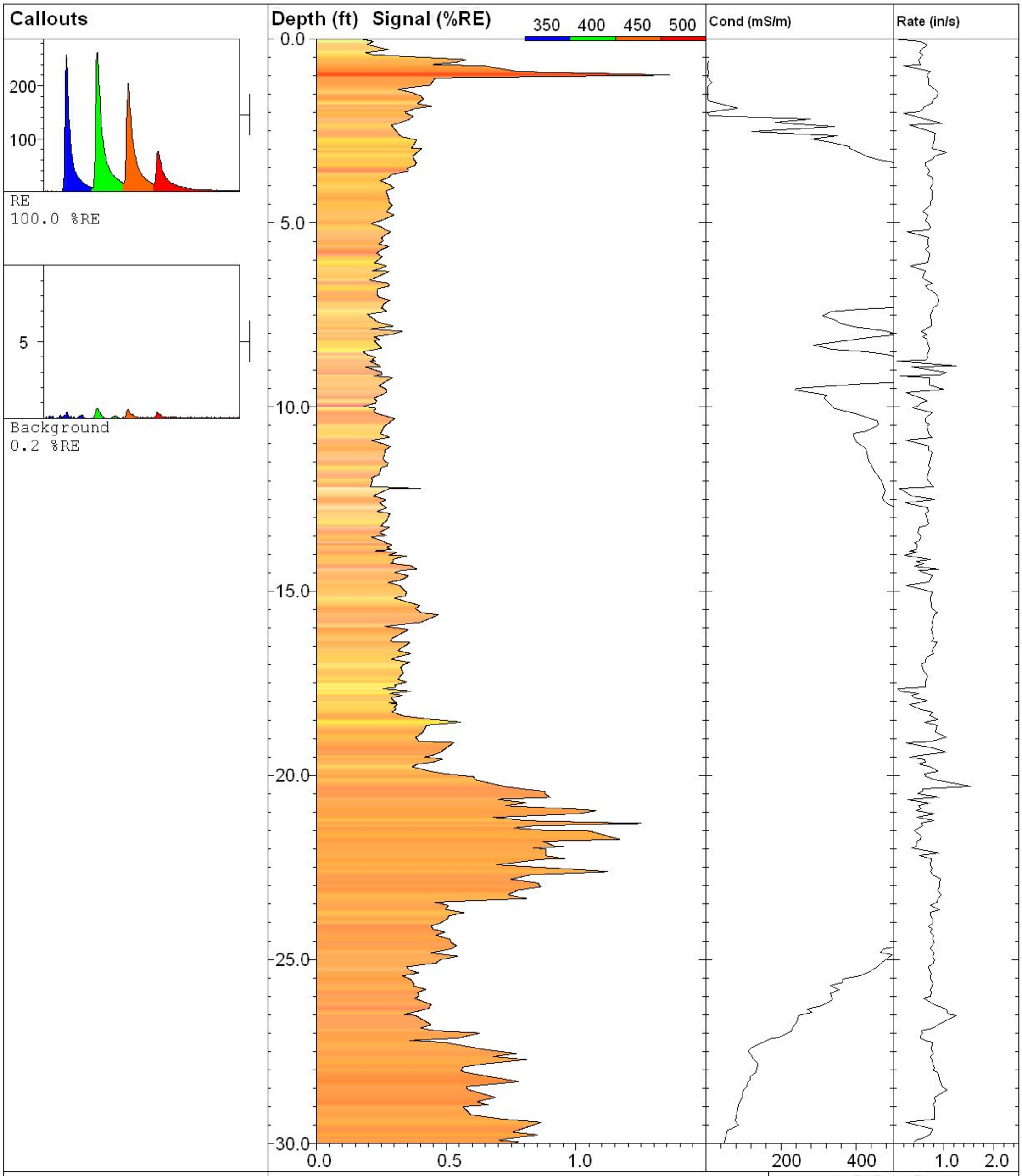


LIF-10-014		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.02 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **172.3 % @ 15.68 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-27 09:08 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-10-015**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.06 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **3.7 % @ 5.11 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-27 09:59 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-10-016**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.4 % @ 0.99 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-27 10:40 CDT**

Buick City
Area 12

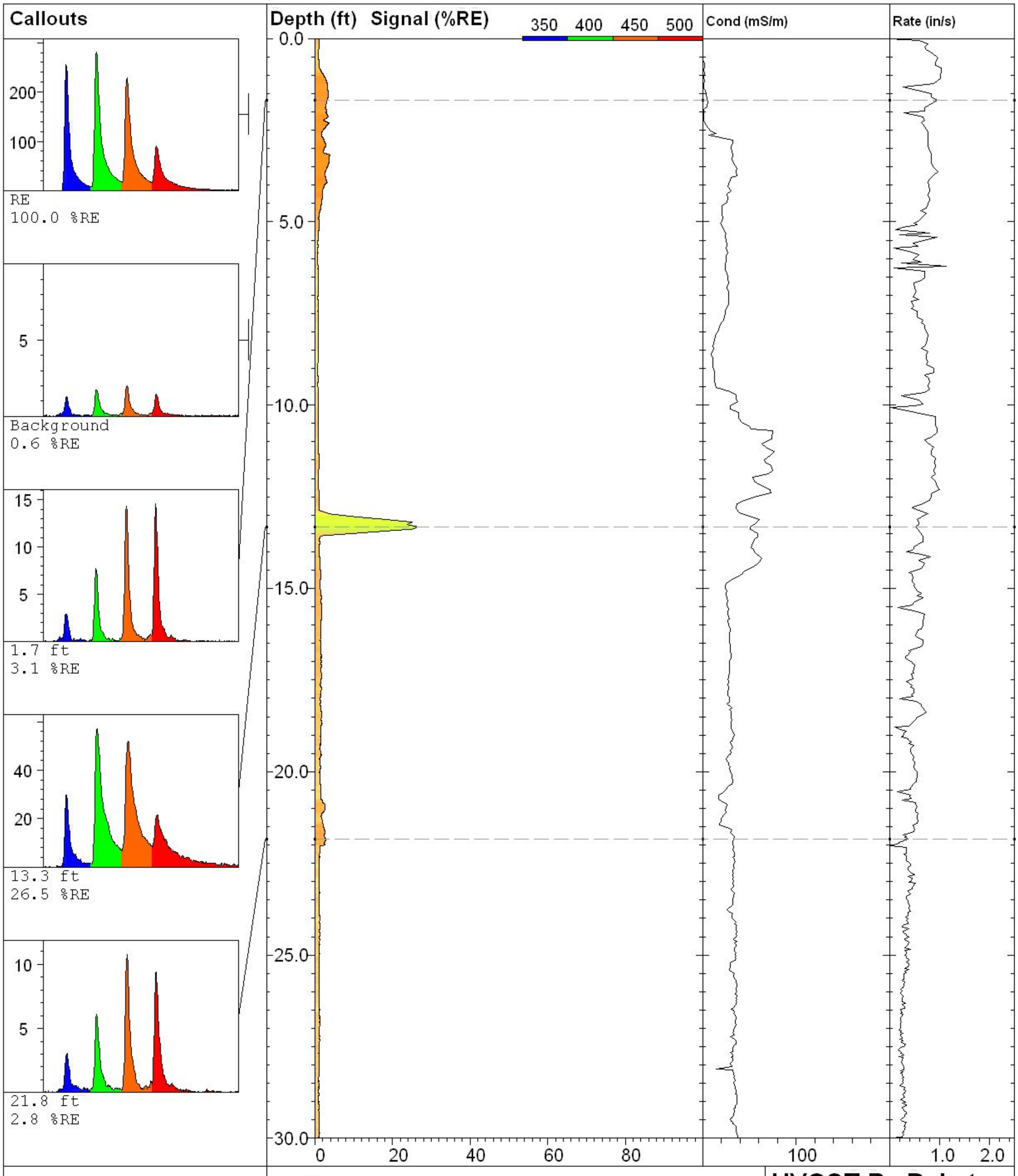
11253 91st Avenue North
Maple Grove, Minnesota
(763) 424-4803
fax (763) 424-9452

Client:	ARCADIS
Contact:	Megan Reightler
Services:	UVOST Logging
Date:	10/10/2011 - 10/29/2011
Project:	Buick City
Project #:	135-MNDS-11UV
Address:	Flint, MI

UVOST Log Summary

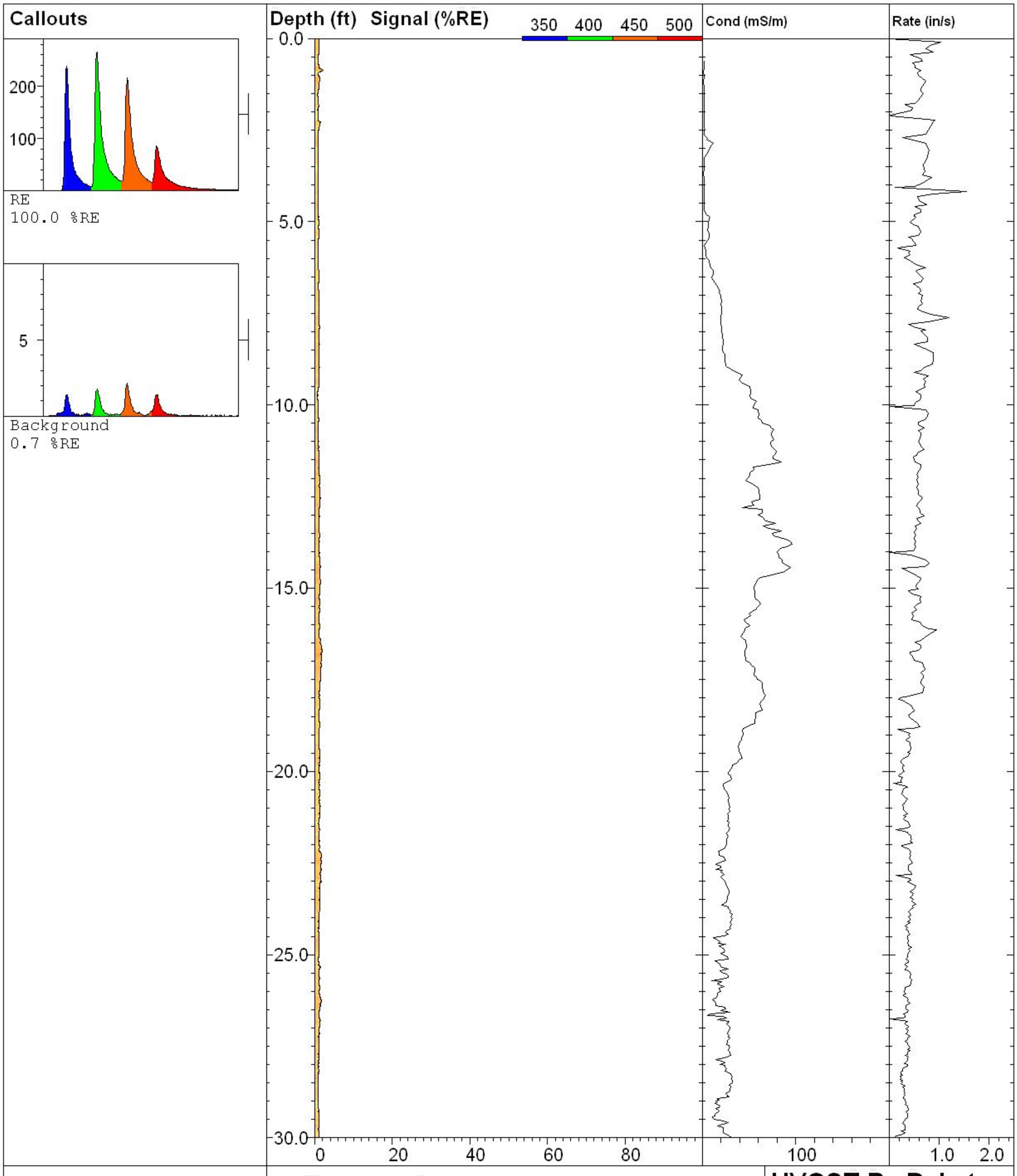
File	Date/Time	Latitude	Longitude	Final Depth *(ft)*	Max Signal *(%RE)*	Max. Signal Depth *(ft)*	Initial RE Area *(pVs)*	Background Area *(pVs)*	Fluorescence Top - Bottom *(ft)*
LIF-12-044	10/11/2011 8:02	NA	NA	30.0	27	13.3	11940	75	12.9 - 13.7
LIF-12-045	10/11/2011 9:04	NA	NA	30.0	2	0.9	11760	85	NA
LIF-12-046	10/11/2011 9:47	NA	NA	21.4	2	10.4	11400	94	NA
LIF-12-047	10/11/2011 10:20	NA	NA	30.0	2	6.2	11816	97	NA

UVOST LOGS
@ 100% RE

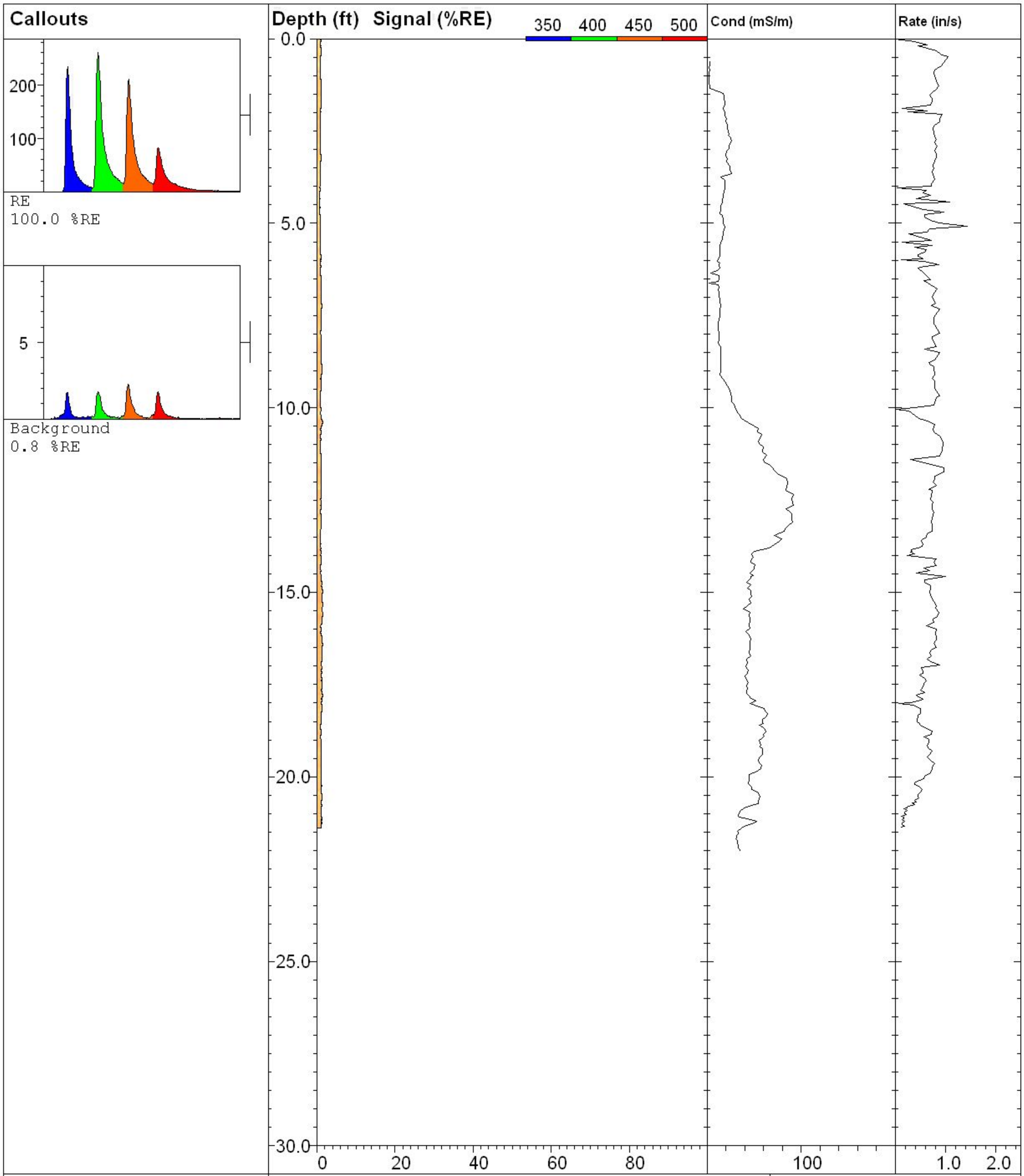


LIF-12-044		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **26.5 % @ 13.32 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-11 08:02 CDT**

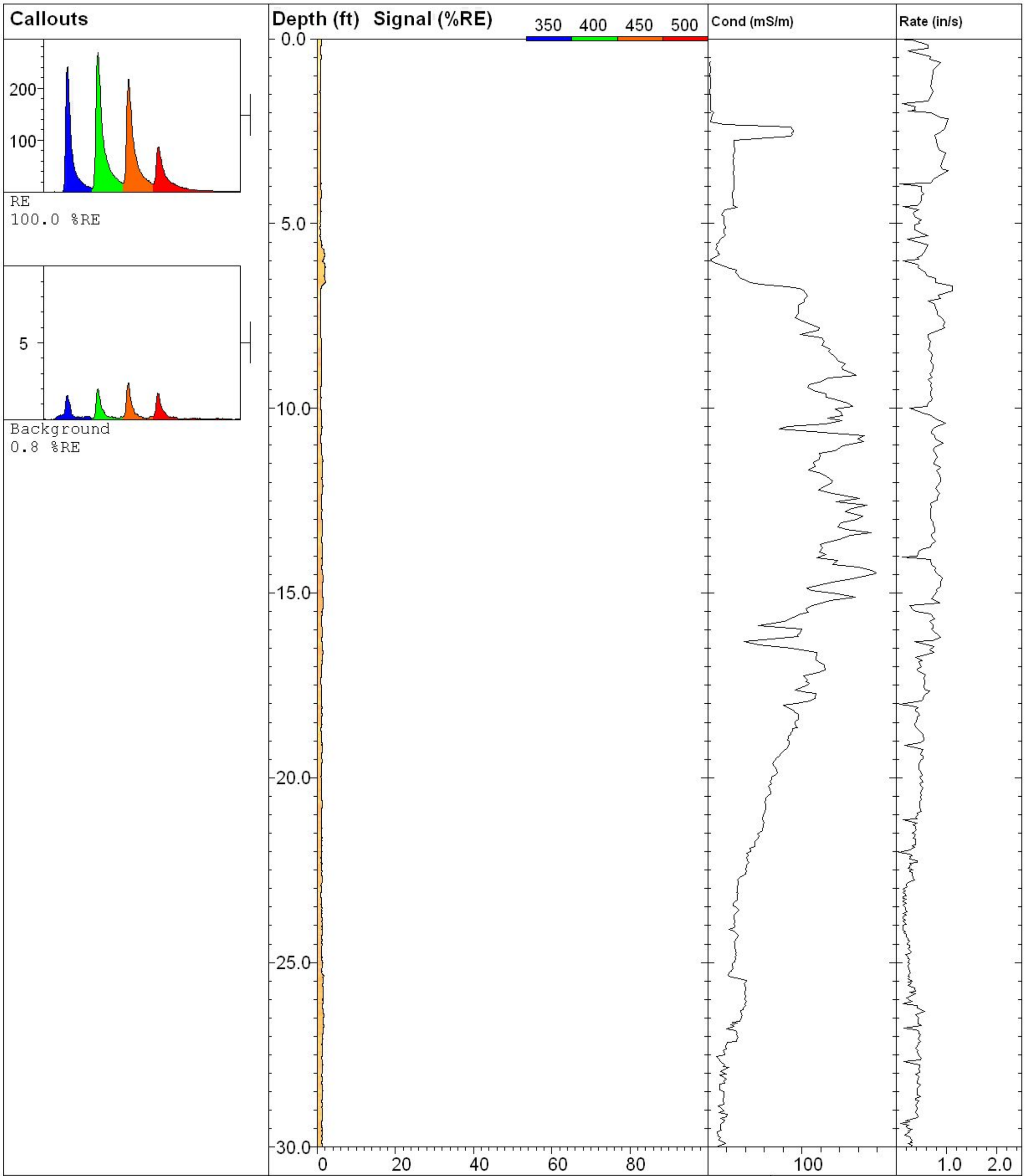
MATRIX ENVIRONMENTAL LLC
www.matrixenv.com



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-12-045**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **2.2 % @ 0.87 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-11 09:04 CDT**

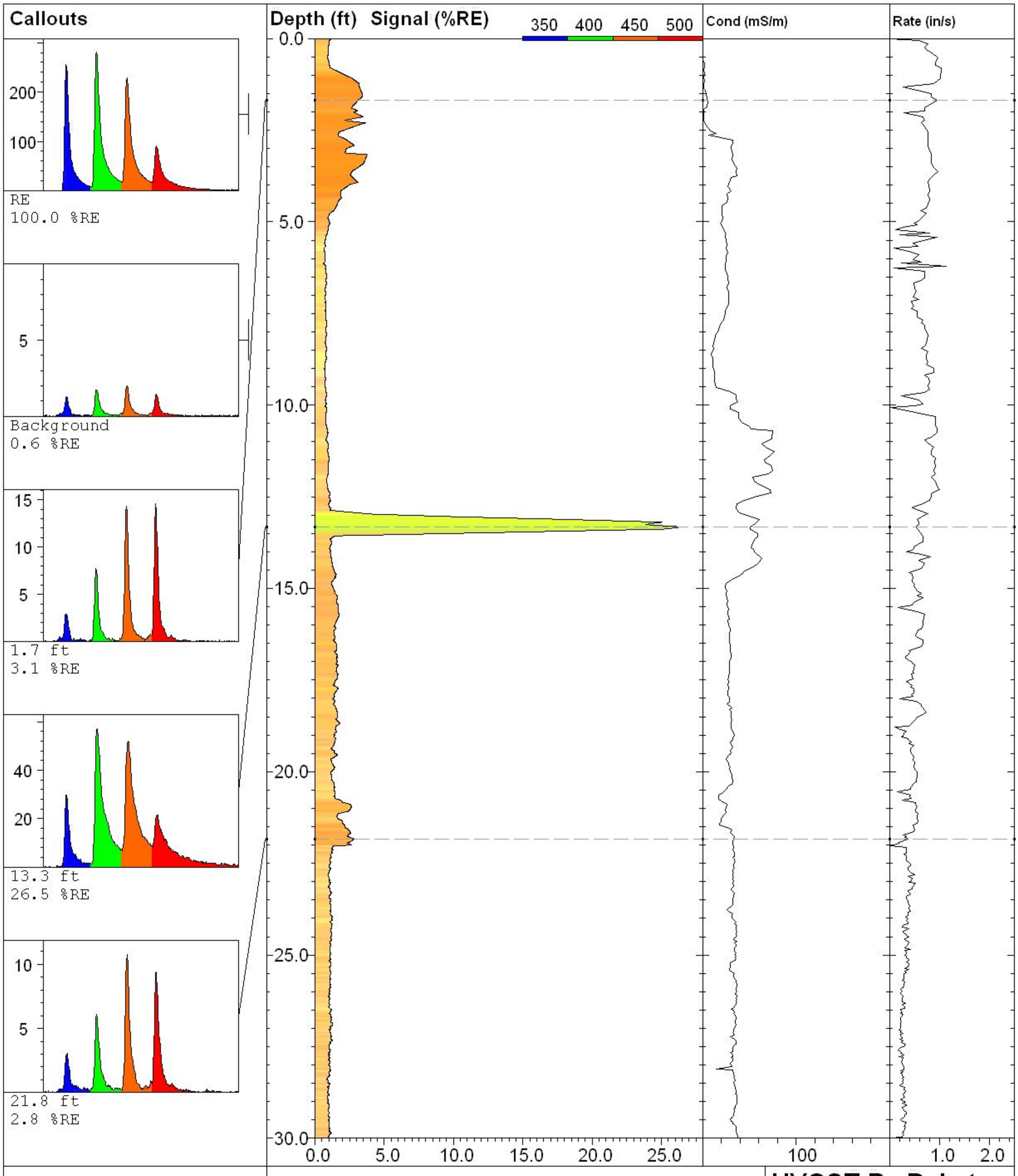


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-12-046**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **21.39 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.5 % @ 10.37 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-11 09:47 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-12-047**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.03 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **2.2 % @ 6.19 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-11 10:20 CDT**

UVOST LOGS
@ Best Fit Scale



LIF-12-044		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **26.5 % @ 13.32 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-11 08:02 CDT**

MATRIX ENVIRONMENTAL LLC
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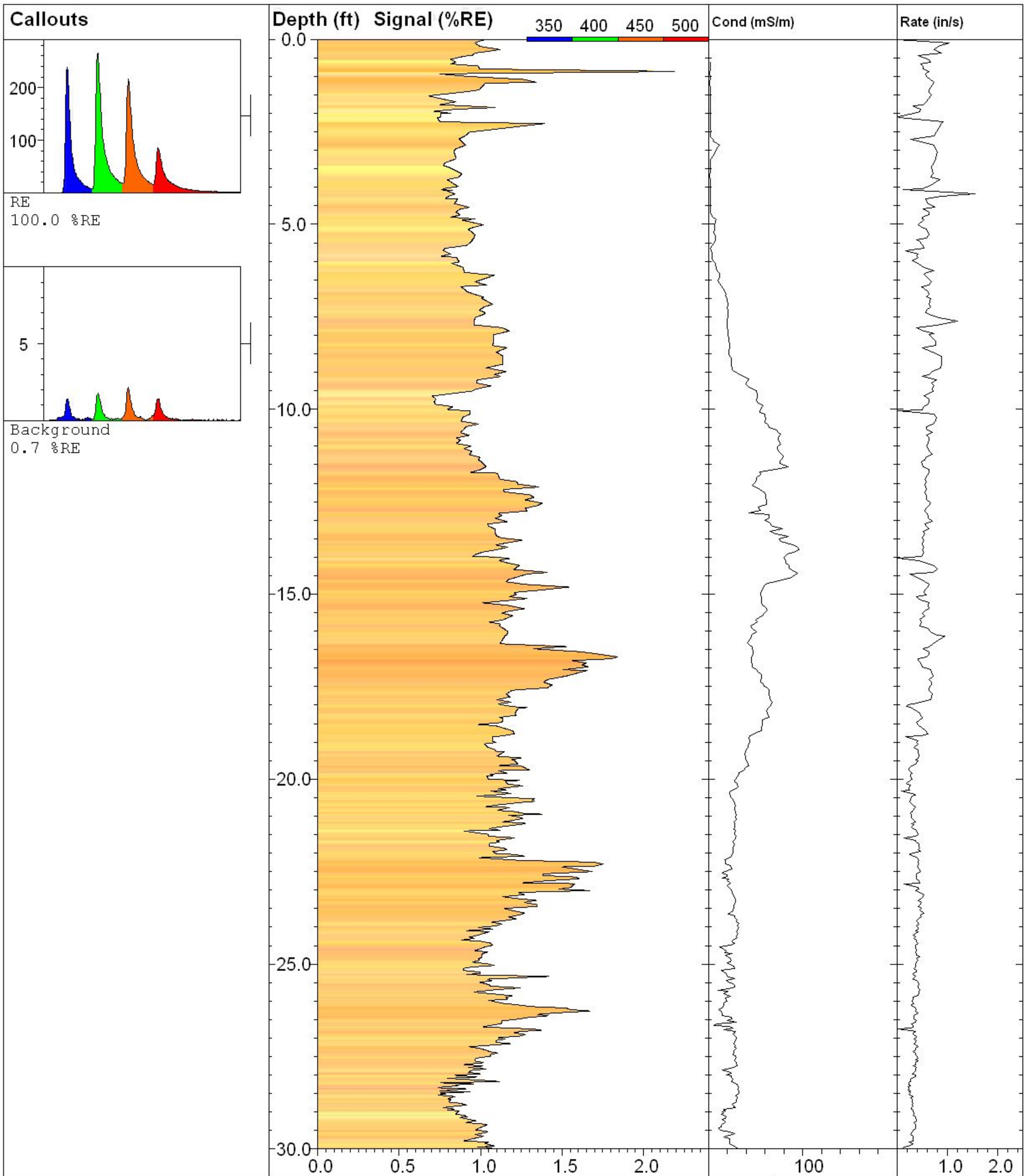
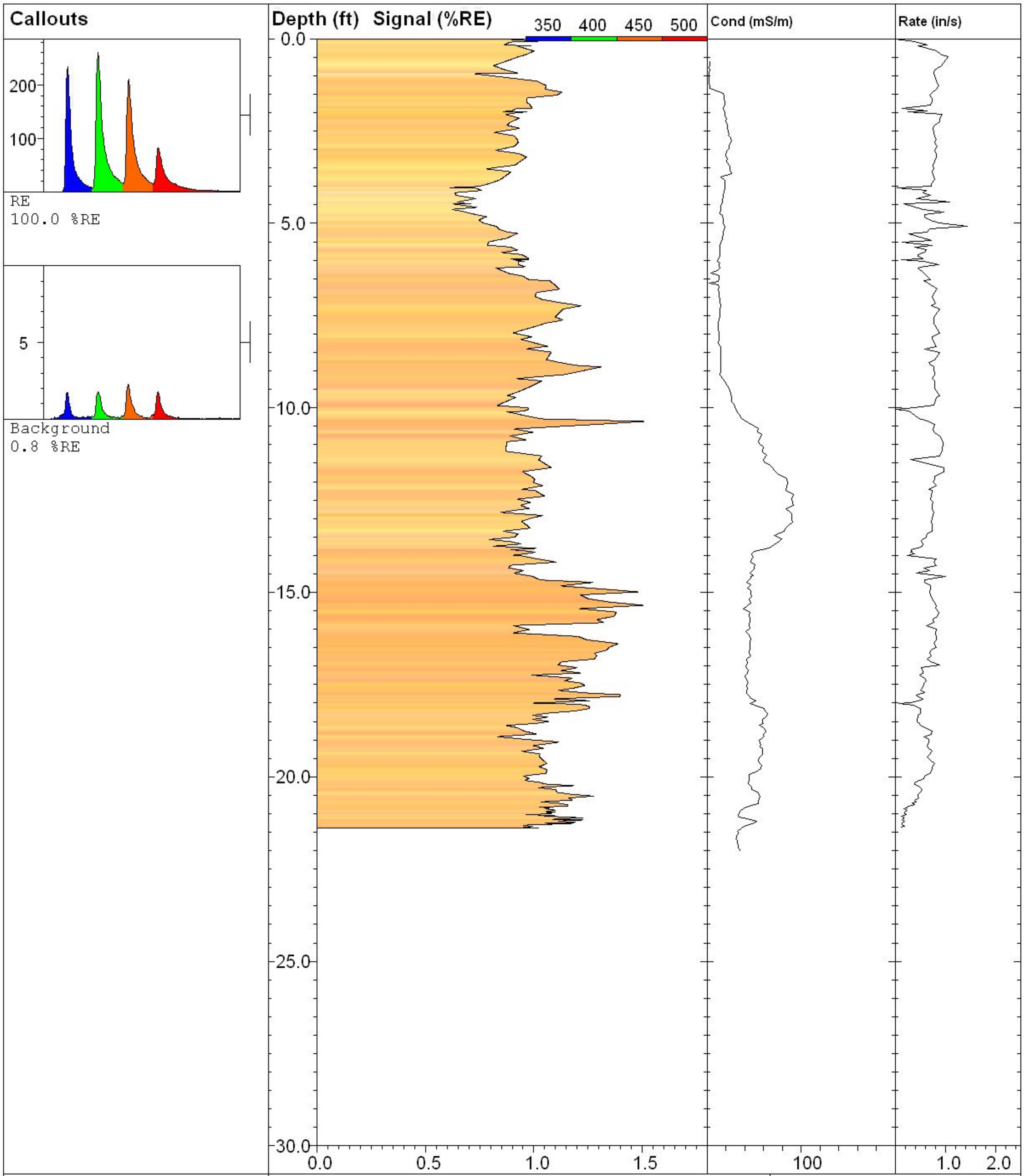
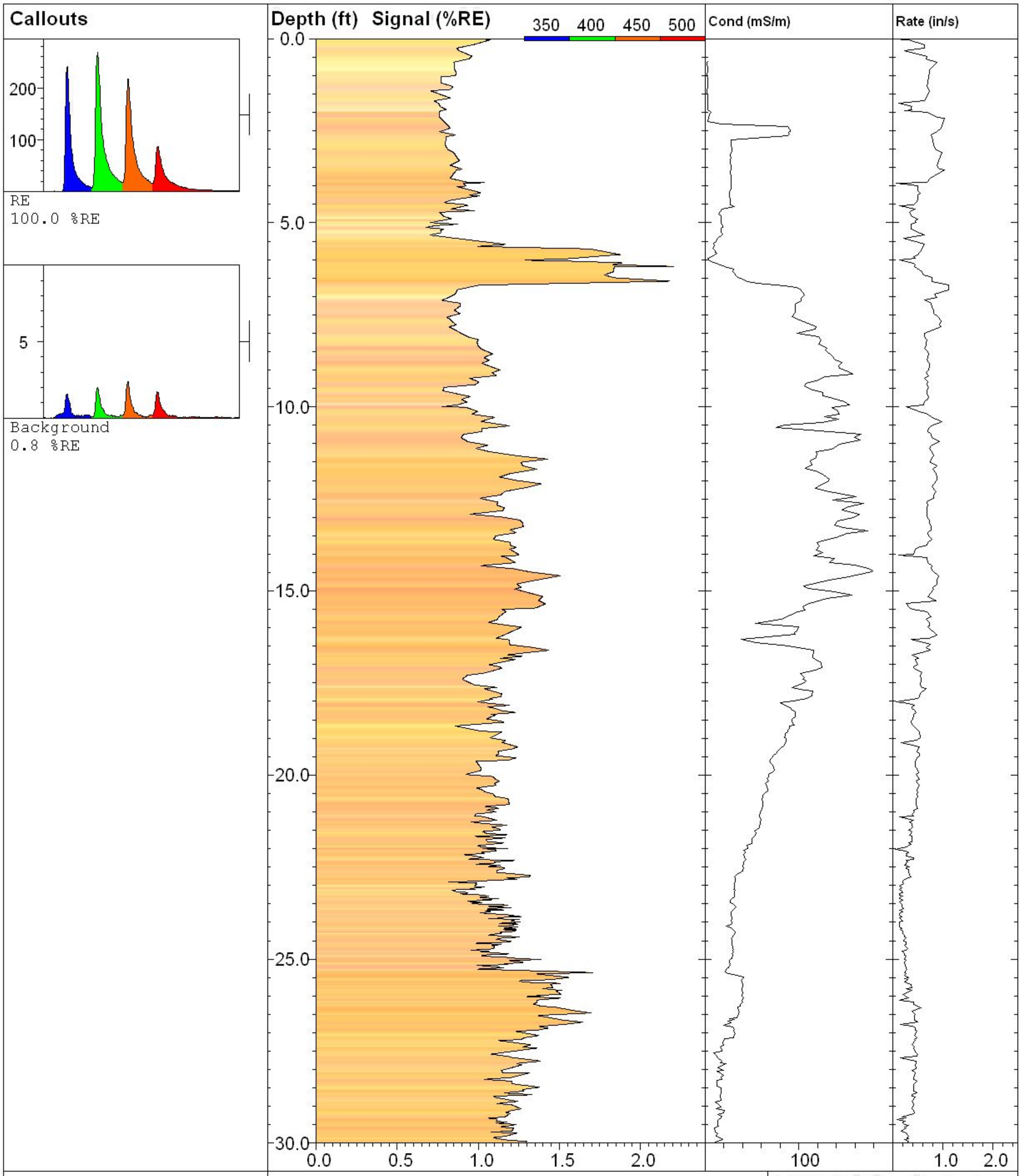


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-12-045**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **2.2 % @ 0.87 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-11 09:04 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-12-046**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **21.39 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.5 % @ 10.37 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-11 09:47 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-12-047**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.03 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **2.2 % @ 6.19 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-11 10:20 CDT**

Buick City
Area 16

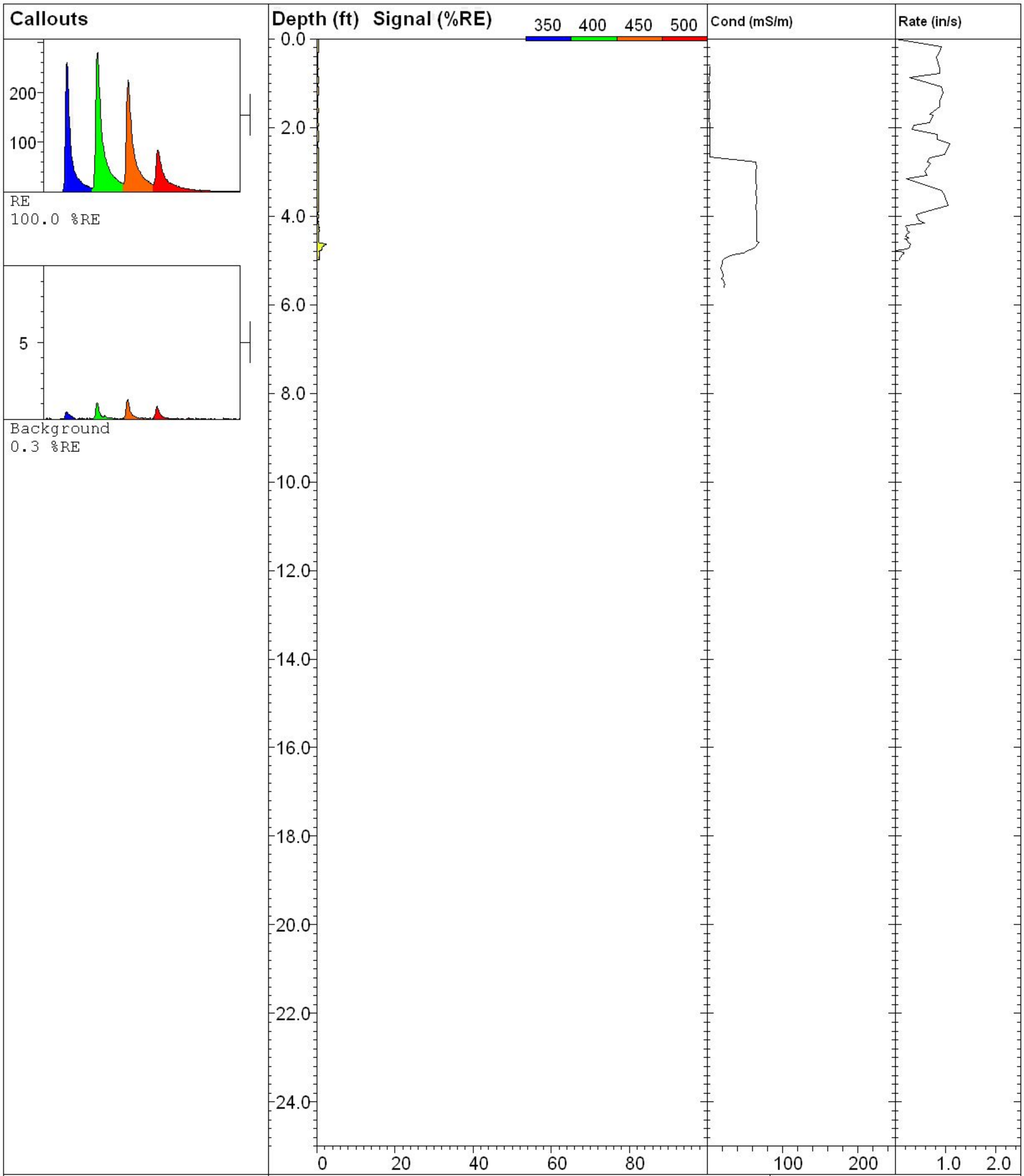
11253 91st Avenue North
Maple Grove, Minnesota
(763) 424-4803
fax (763) 424-9452

Client:	ARCADIS
Contact:	Megan Reightler
Services:	UVOST Logging
Date:	10/10/2011 - 10/29/2011
Project:	Buick City
Project #:	135-MNDS-11UV
Address:	Flint, MI

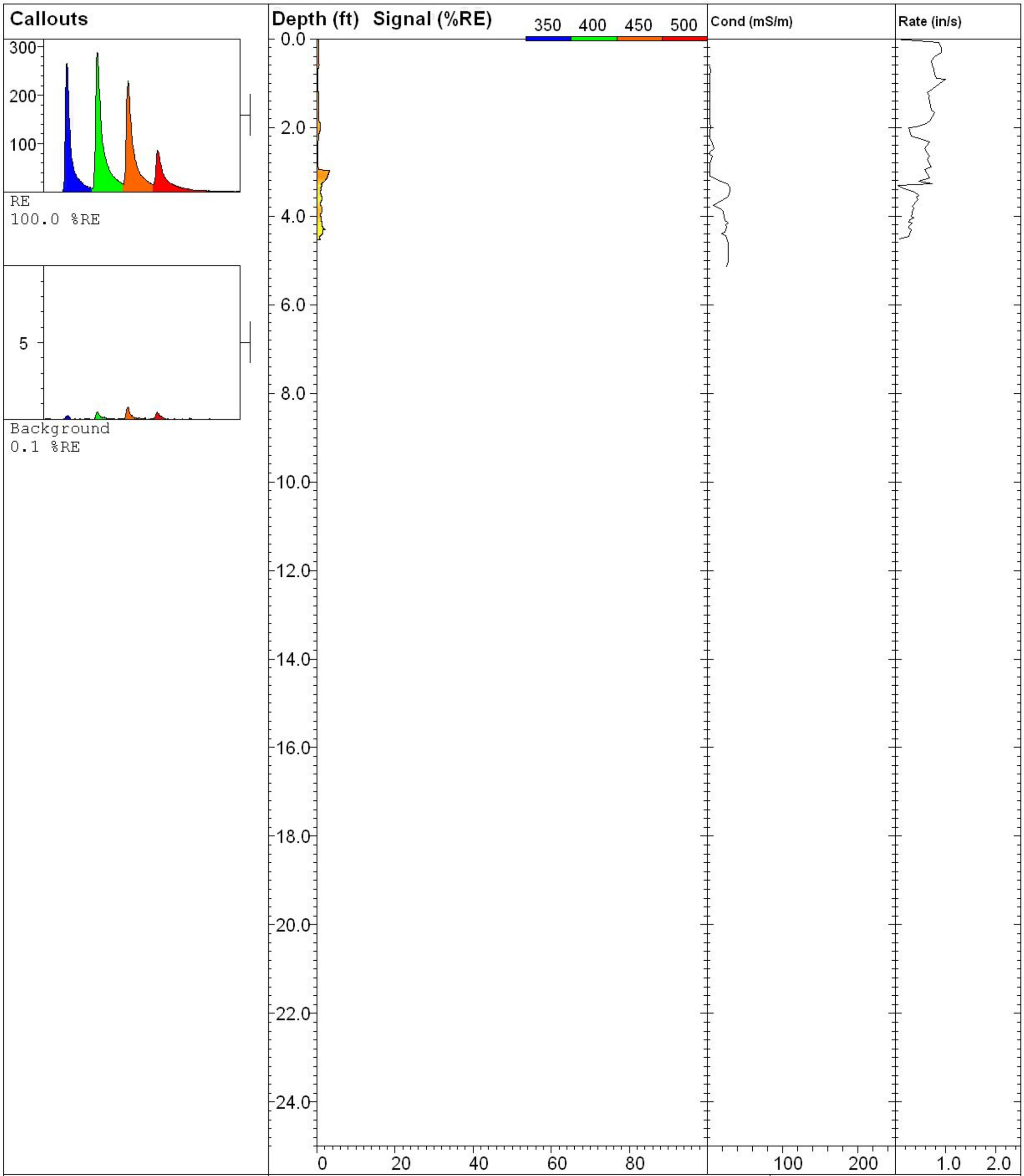
UVOST Log Summary

File	Date/Time	Latitude	Longitude	Final Depth *(ft)*	Max Signal *(%RE)*	Max. Signal Depth *(ft)*	Initial RE Area *(pVs)*	Background Area *(pVs)*	Fluorescence Top - Bottom *(ft)*
LIF-16-019	10/13/2011 8:18	NA	NA	5.0	2	4.6	11569	36	NA
LIF-16-019A	10/13/2011 12:32	NA	NA	4.5	3	3.0	11796	15	NA
LIF-16-020	10/13/2011 8:37	NA	NA	5.9	1	2.0	11523	20	NA
LIF-16-020A	10/13/2011 13:05	NA	NA	5.9	1	0.9	11832	15	NA
LIF-16-020B	10/22/2011 14:20	NA	NA	5.9	2	5.3	11491	71	NA
LIF-16-021	10/13/2011 9:02	NA	NA	24.5	1	13.2	11682	19	NA
LIF-16-022	10/13/2011 9:48	NA	NA	23.7	9	7.5	11813	20	6.8 - 9.7
LIF-16-023	10/13/2011 10:25	NA	NA	22.7	222	12.2	11685	21	9.6 - 18.0
LIF-16-024	10/14/2011 7:44	NA	NA	22.4	1	2.9	11301	24	NA

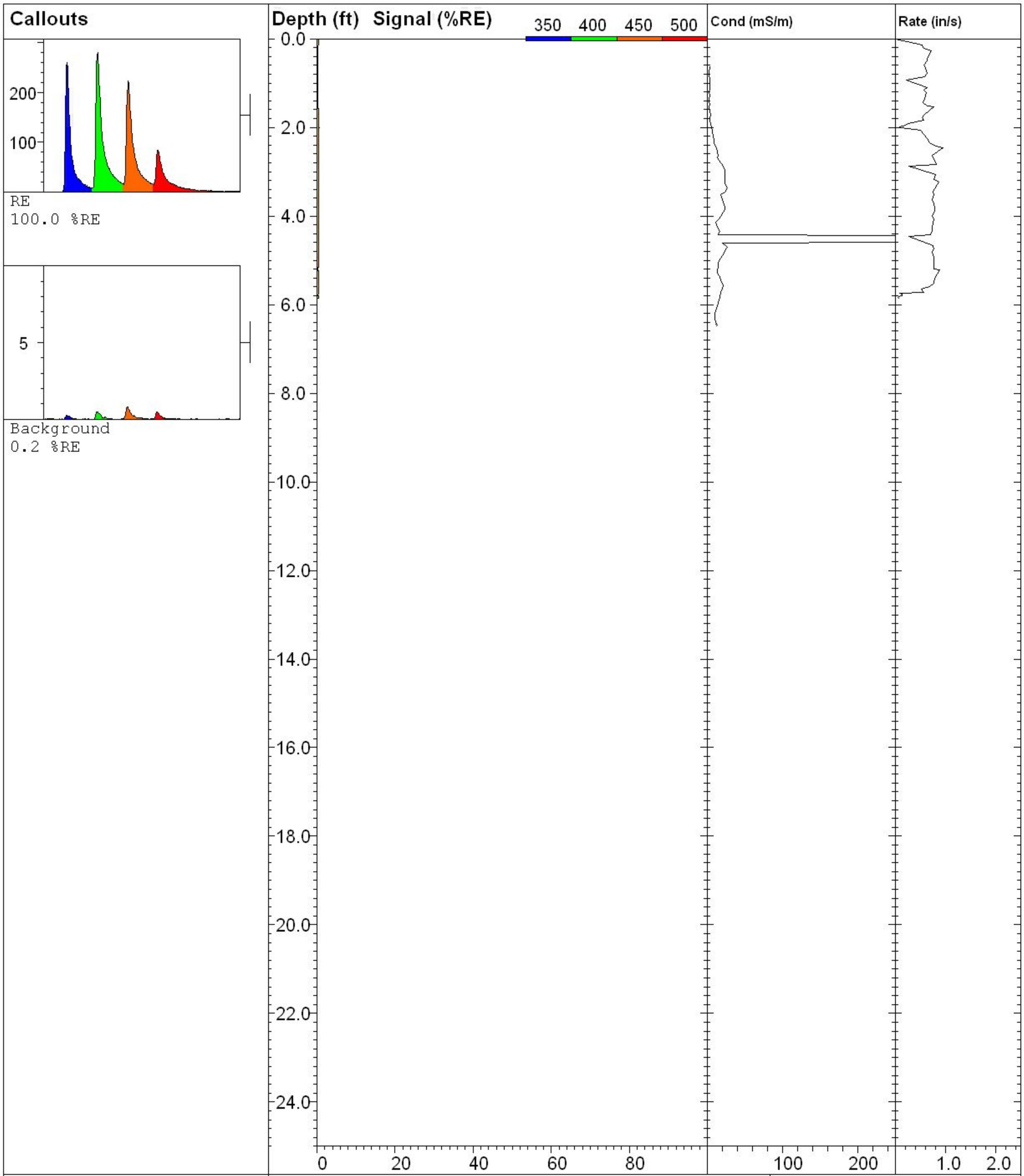
UVOST LOGS
@ 100% RE



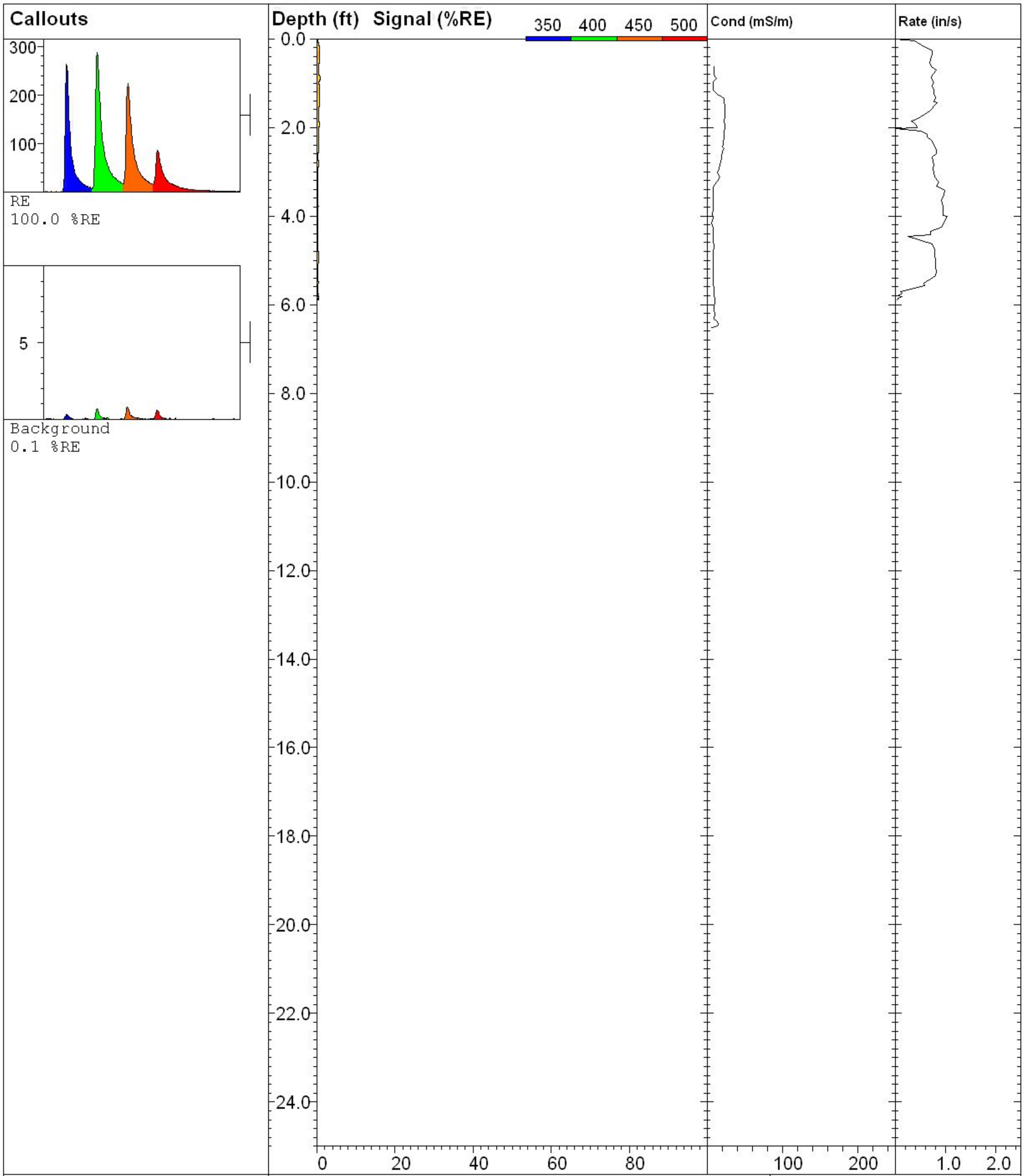
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-16-019**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **4.99 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **2.4 % @ 4.64 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-13 08:18 CDT**



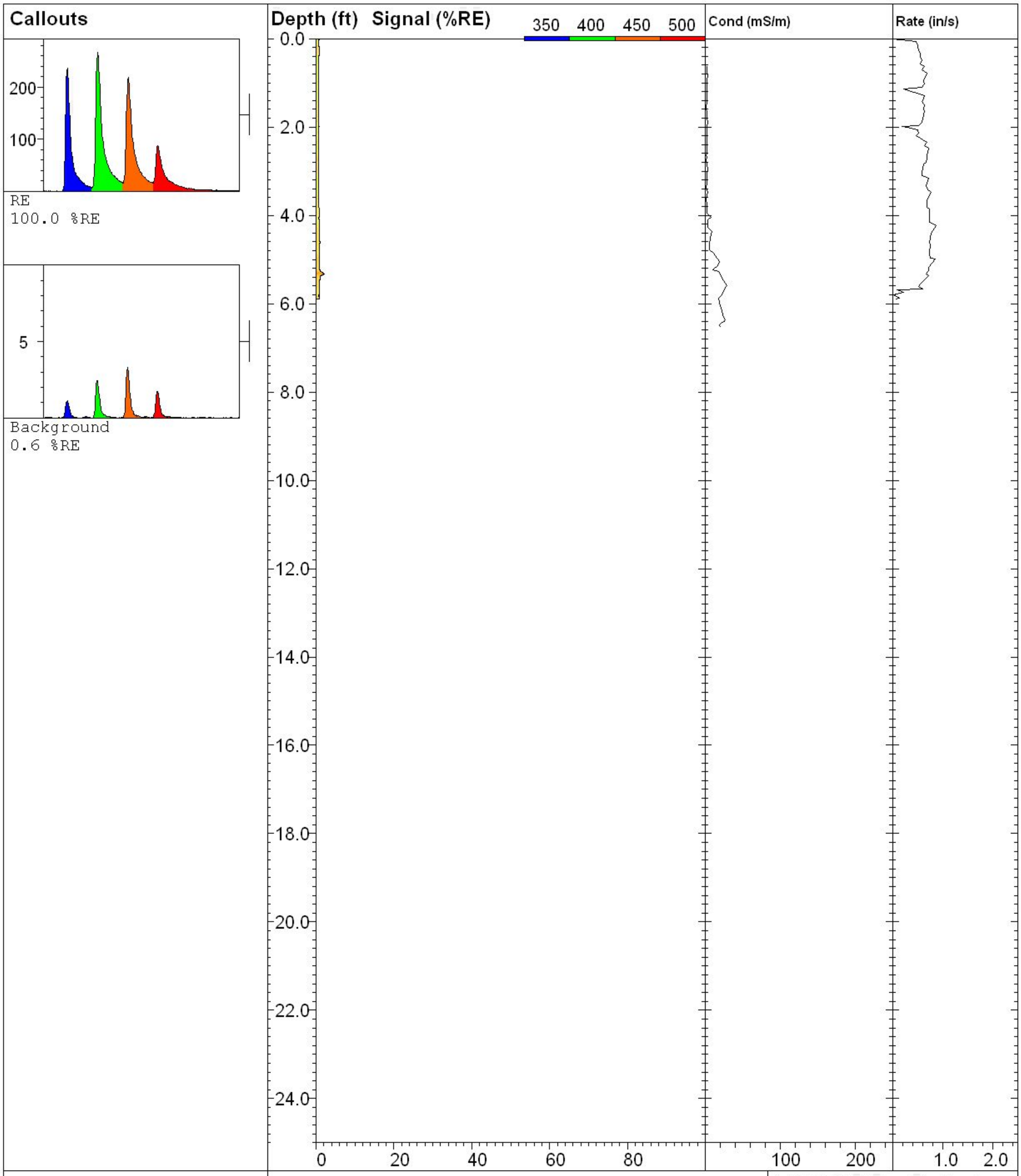
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-16-019A**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **4.54 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **3.2 % @ 2.97 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-13 12:32 CDT**



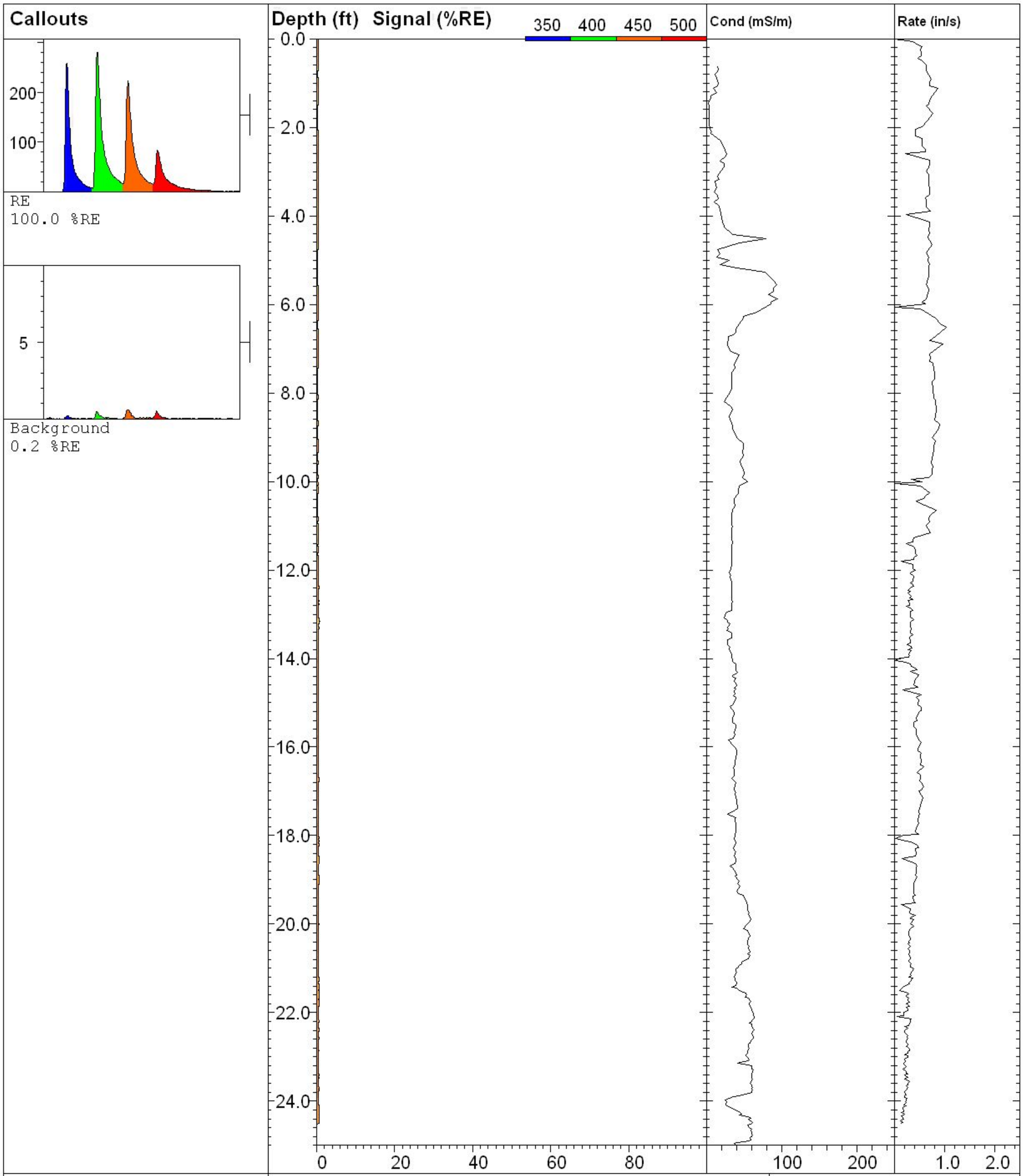
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-16-020**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **5.87 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **0.5 % @ 2.01 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-13 08:37 CDT**



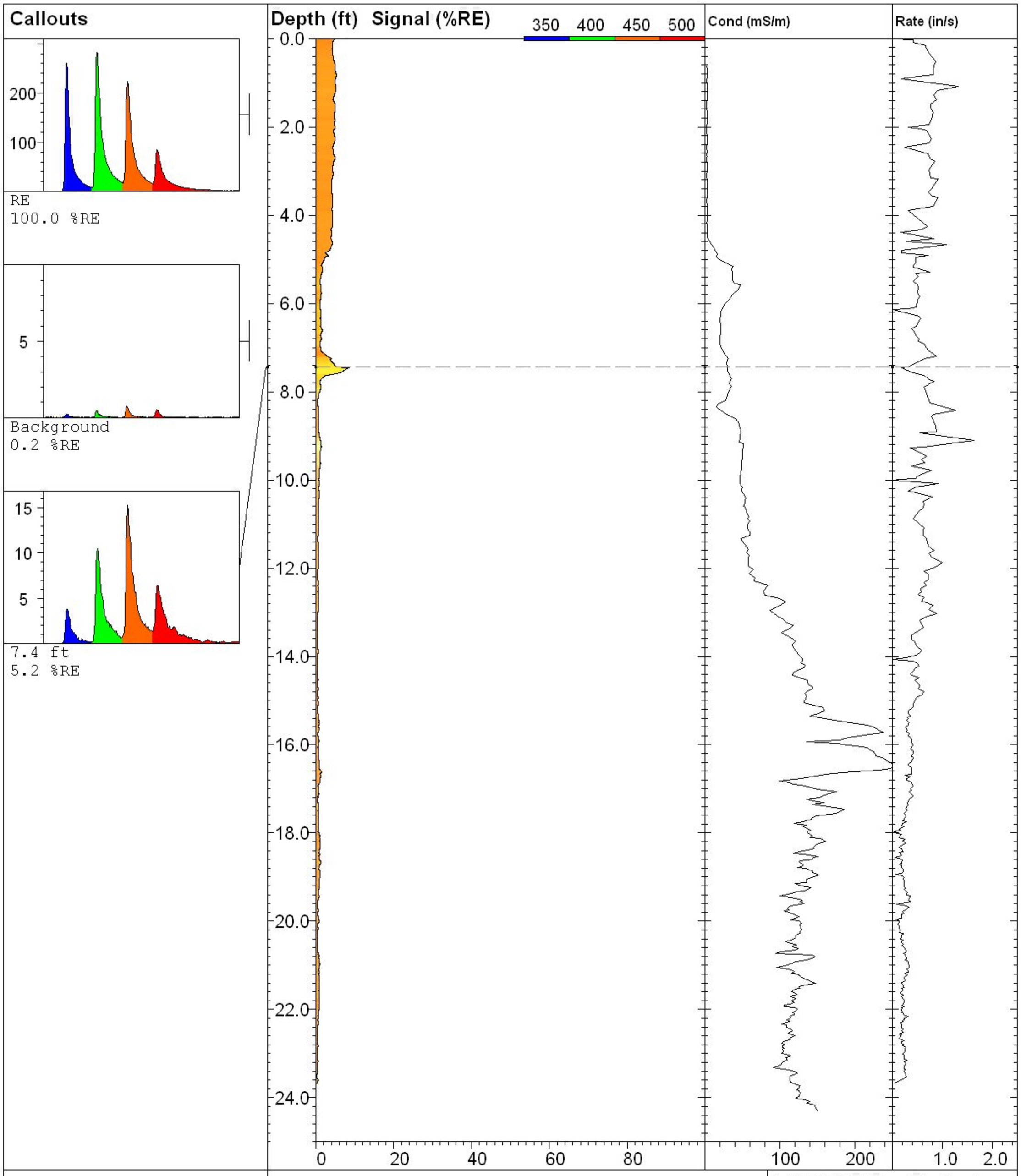
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-16-020A**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **5.89 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **0.9 % @ 0.88 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-13 13:05 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-16-020B**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **5.90 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **2.1 % @ 5.33 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-22 14:20 CDT**

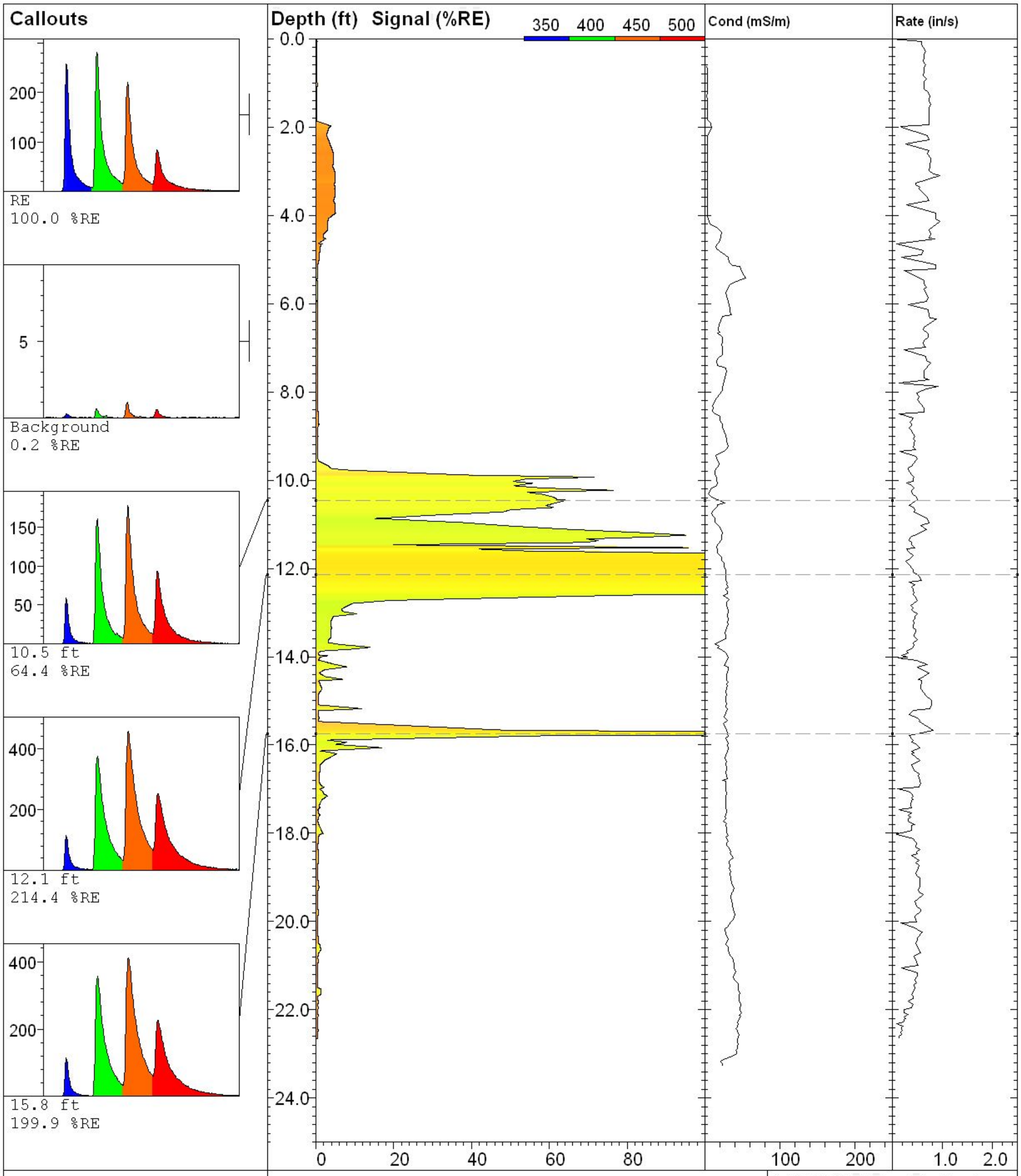


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-16-021**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **24.51 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **0.7 % @ 13.16 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-13 09:02 CDT**



LIF-16-022		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **23.67 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **8.7 % @ 7.47 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-13 09:48 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

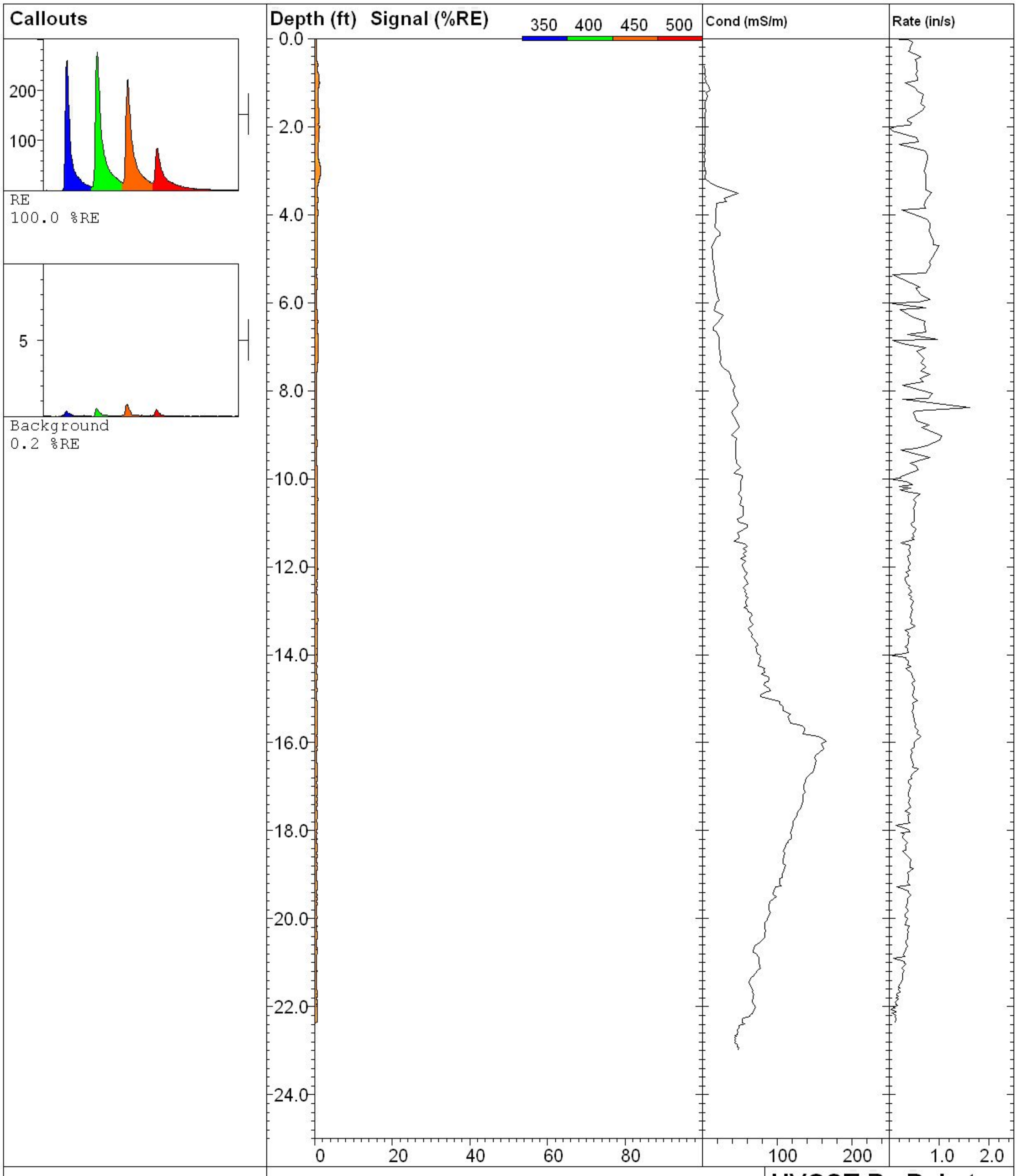


MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

LIF-16-023

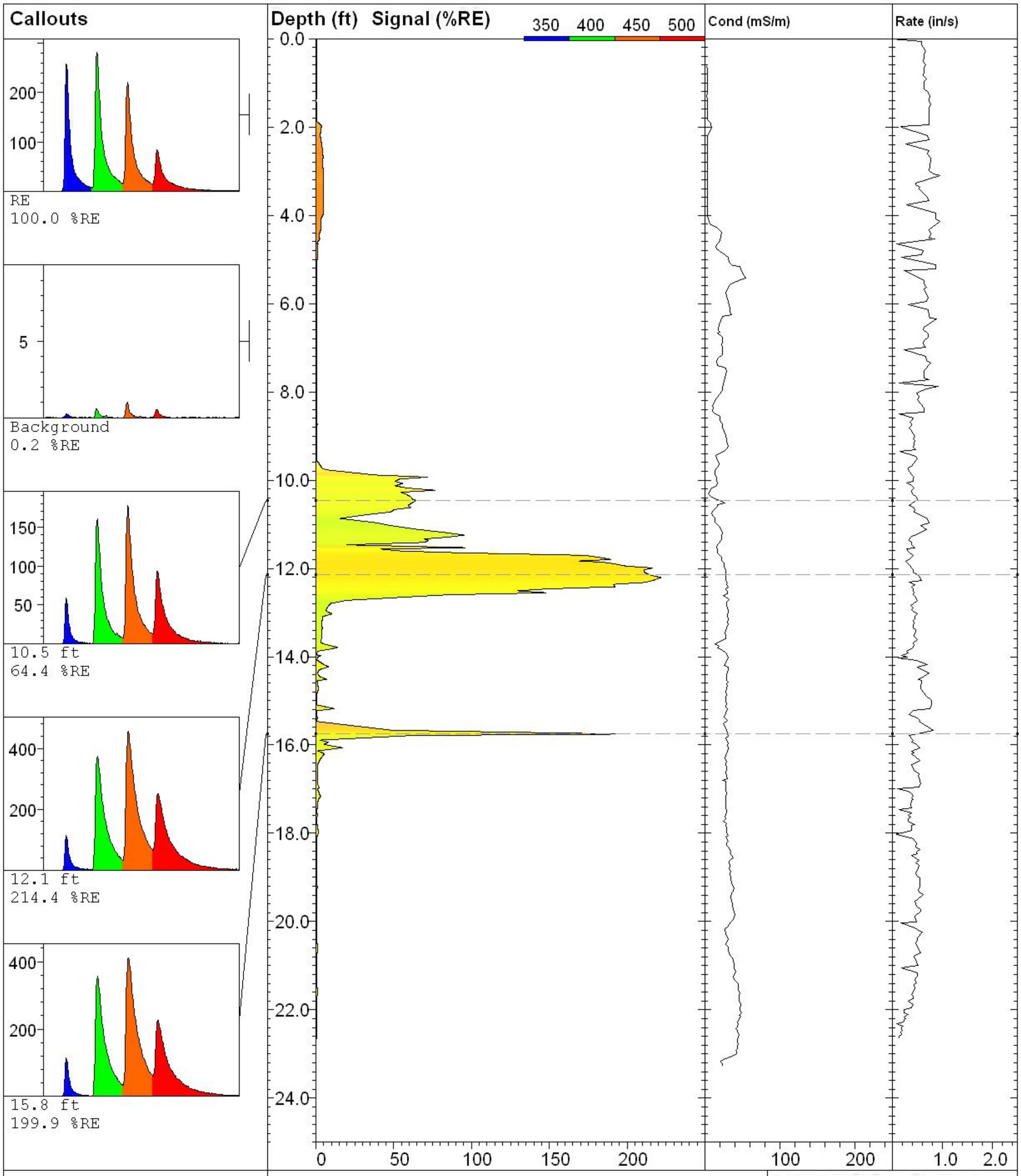
UVOST By Dakota
www.DakotaTechnologies.com

Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **22.65 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **221.8 % @ 12.21 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-13 10:25 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-16-024**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **22.36 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.4 % @ 2.90 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-14 07:44 CDT**

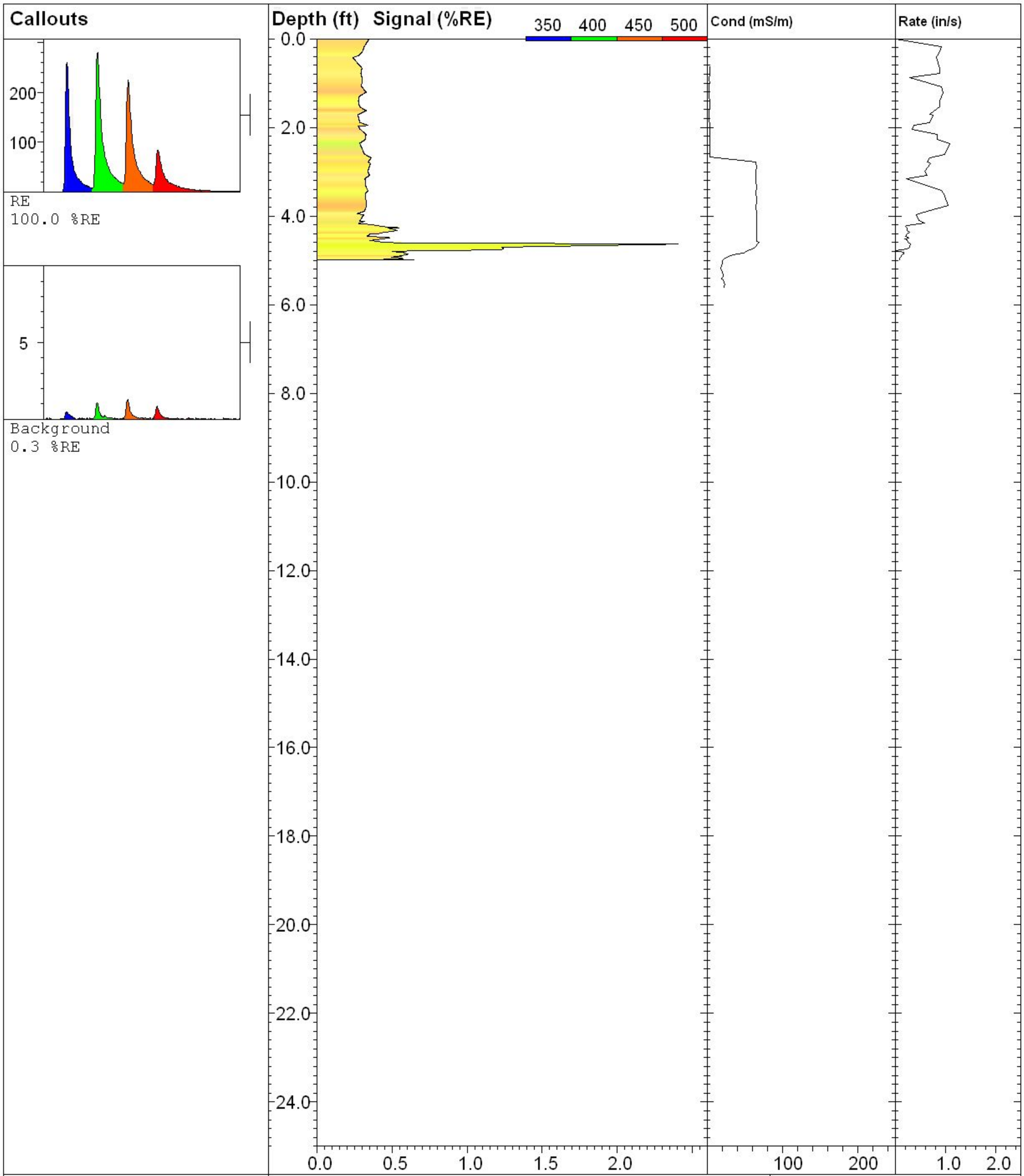
UVOST LOGS
@ 250% RE



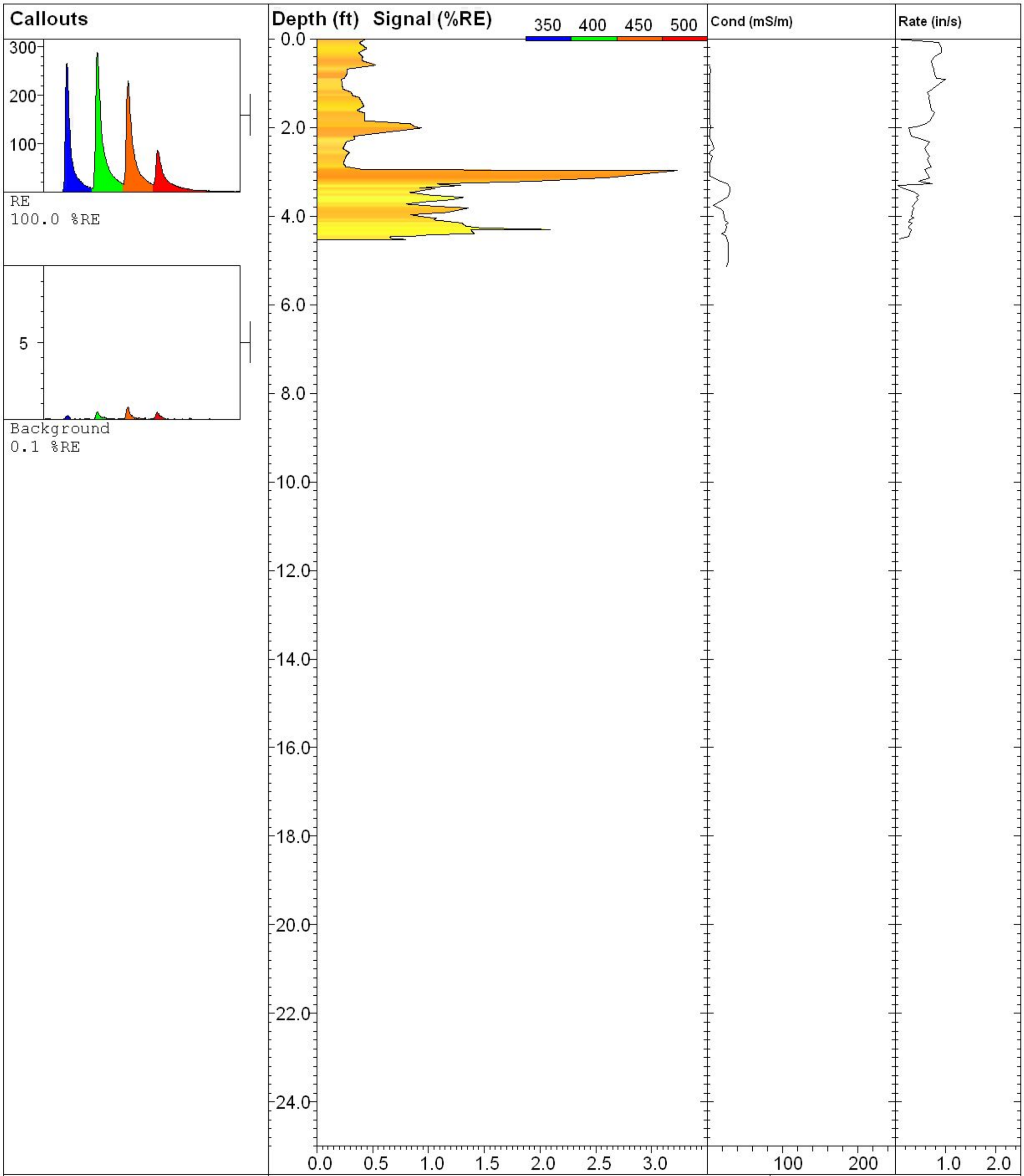
LIF-16-023		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **22.65 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **221.8 % @ 12.21 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-13 10:25 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

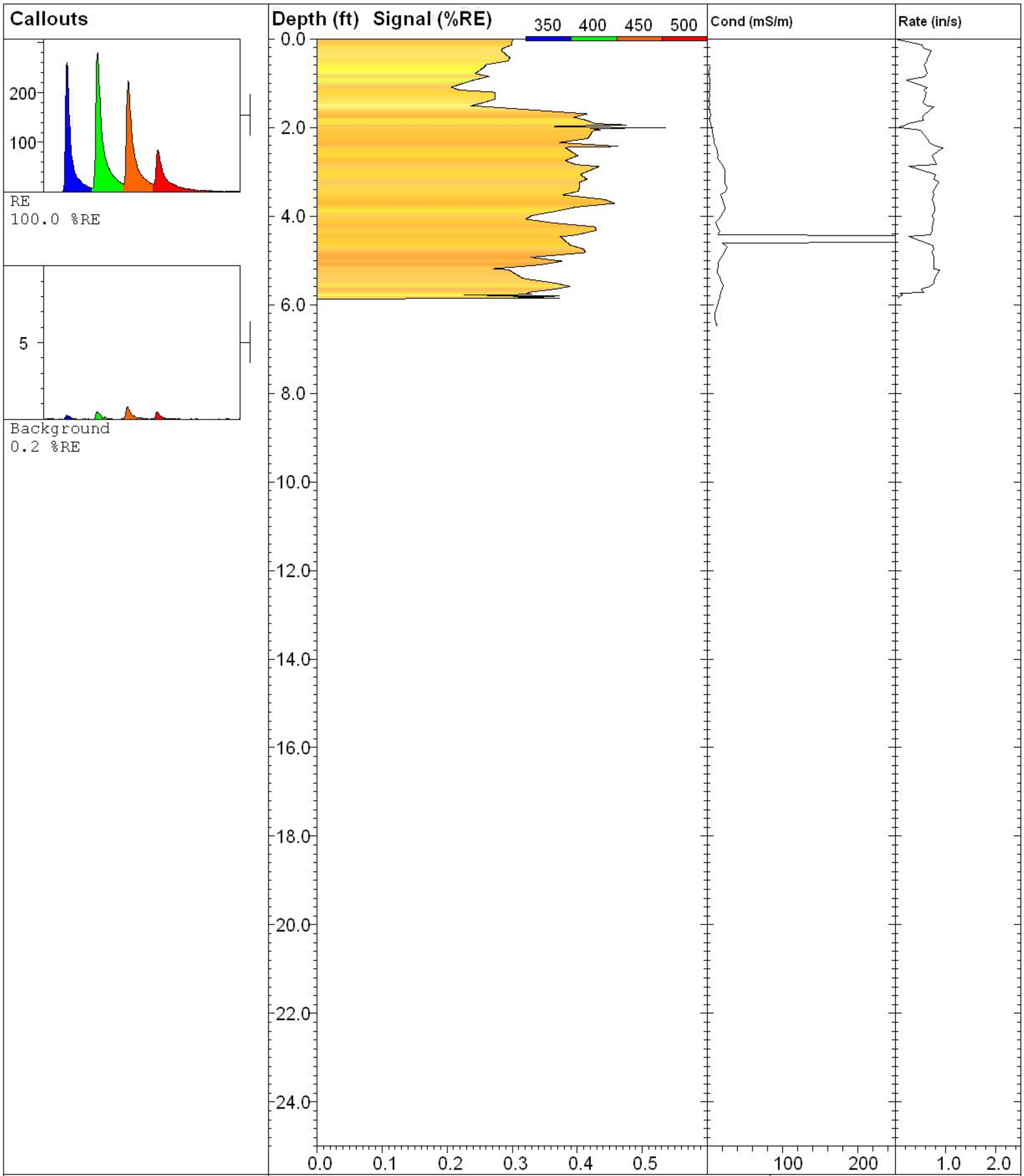
UVOST LOGS
@ Best Fit Scale



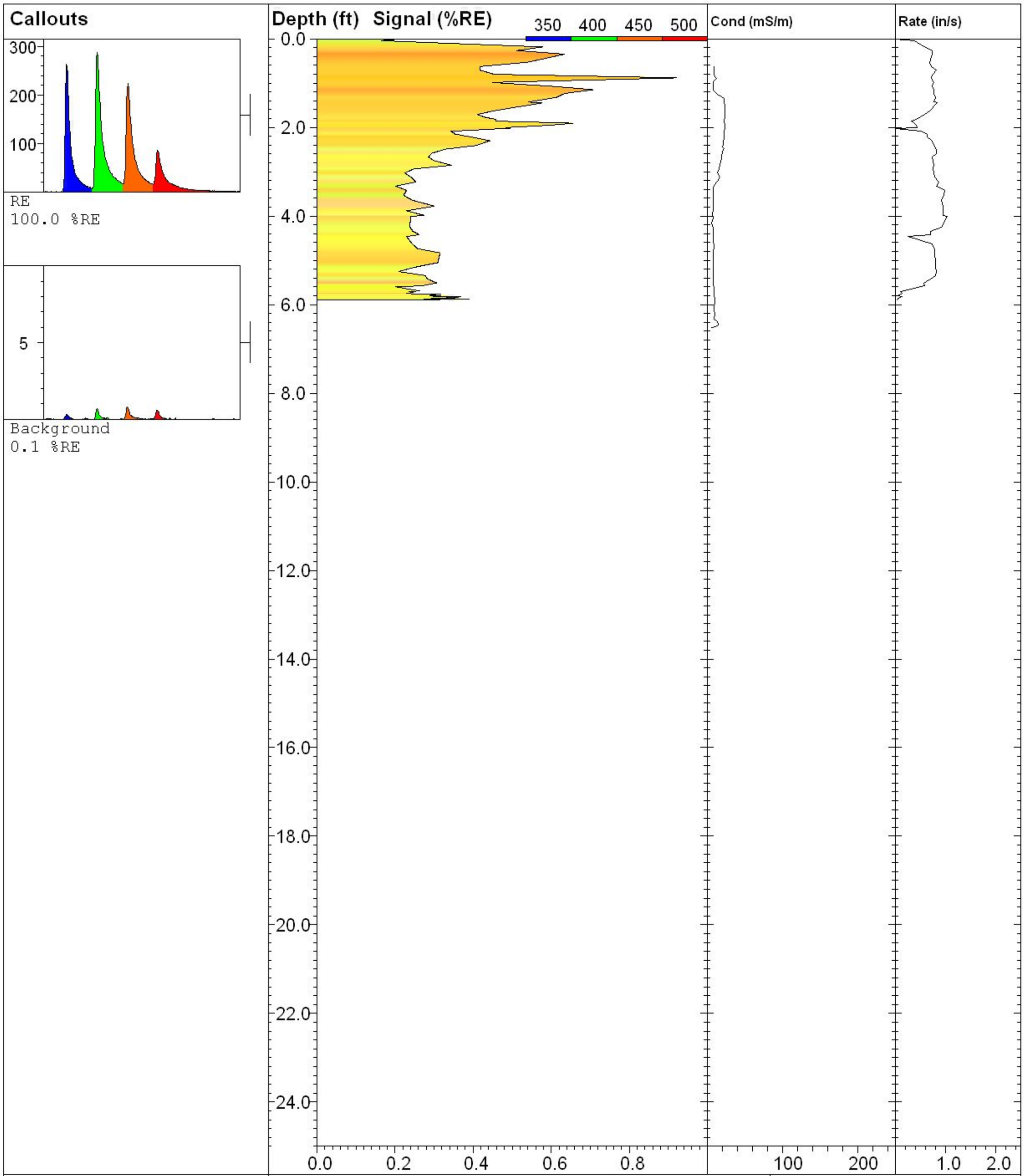
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-16-019**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **4.99 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **2.4 % @ 4.64 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-13 08:18 CDT**



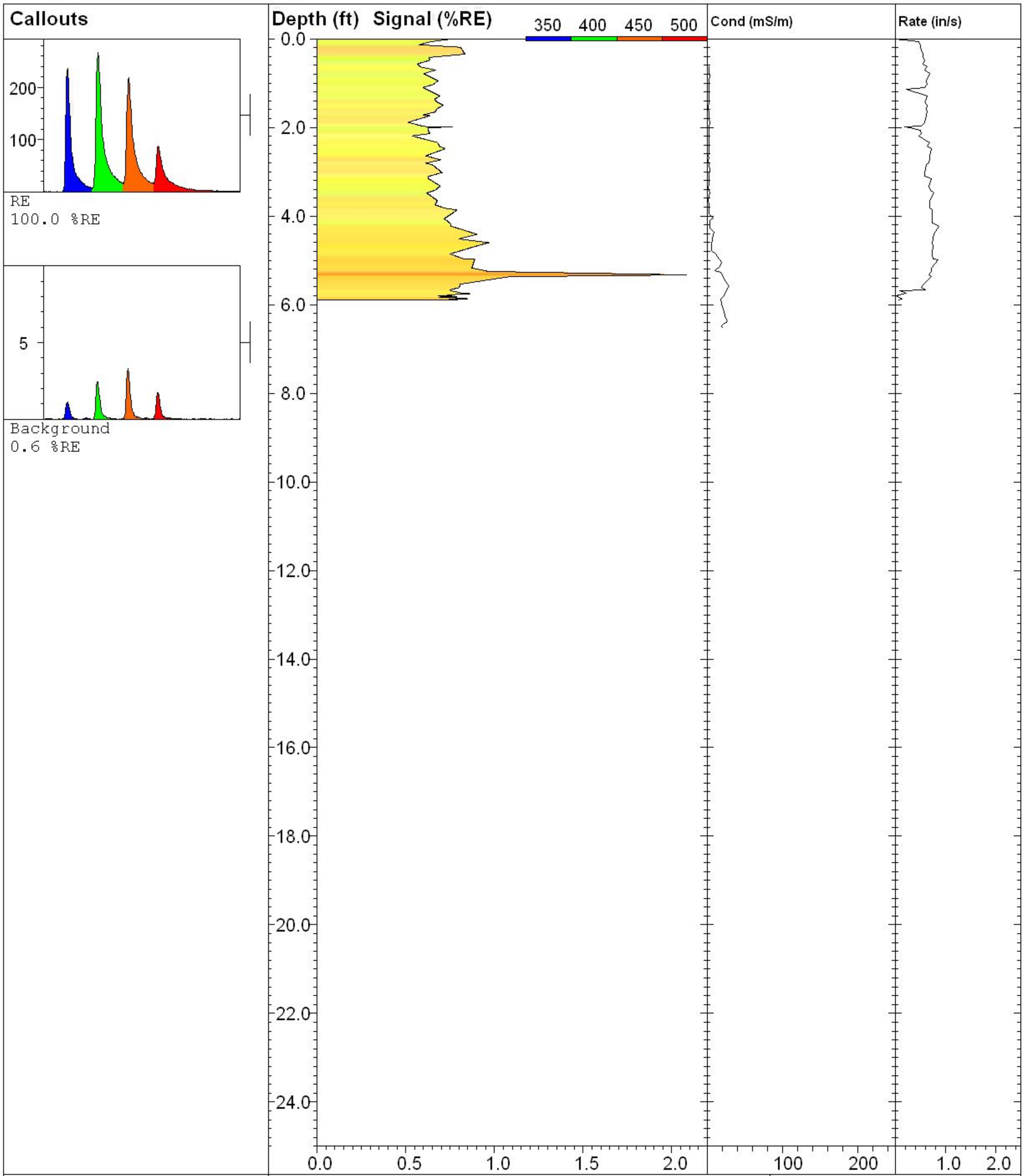
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-16-019A**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **4.54 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **3.2 % @ 2.97 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-13 12:32 CDT**



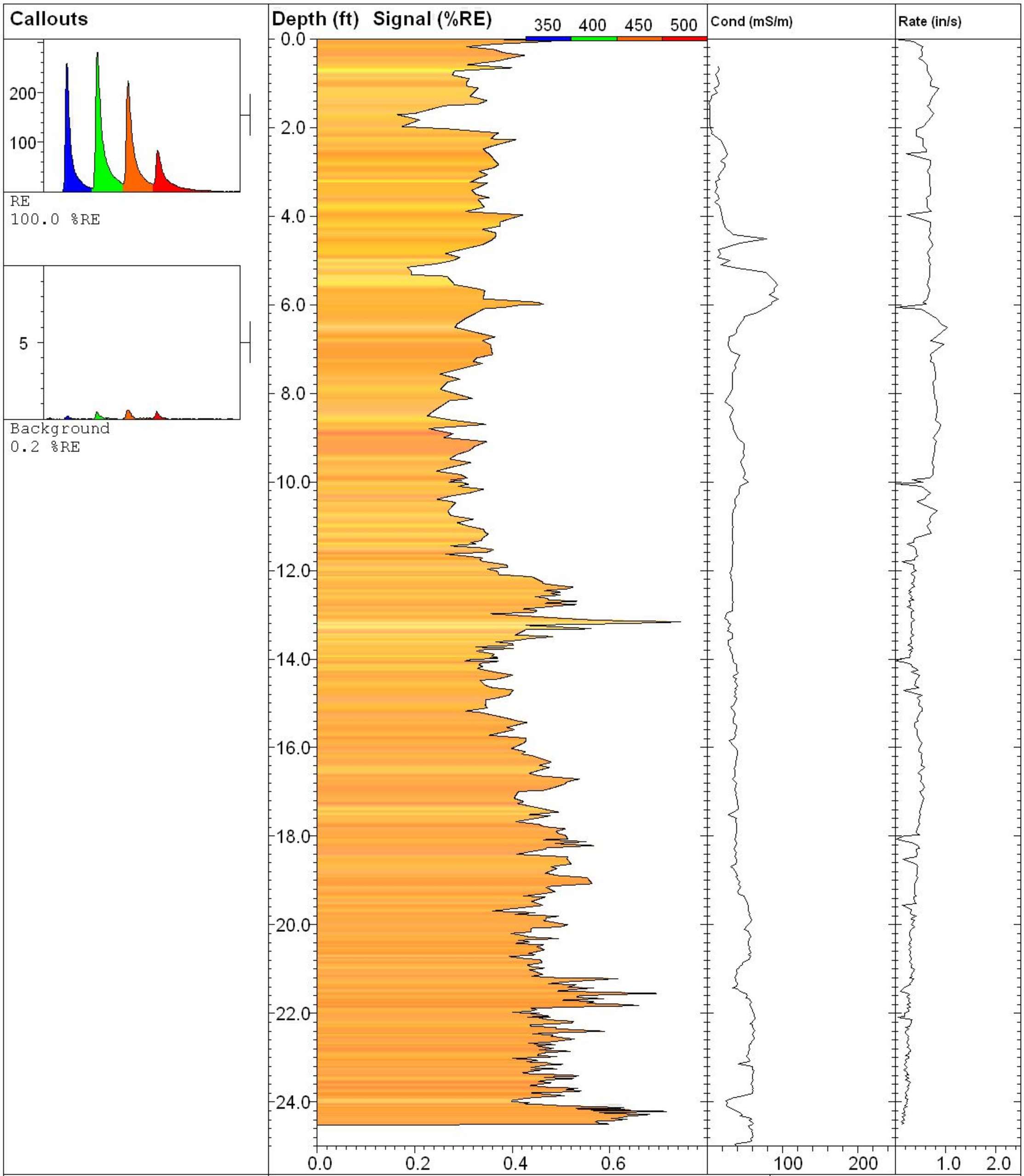
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-16-020**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **5.87 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **0.5 % @ 2.01 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-13 08:37 CDT**



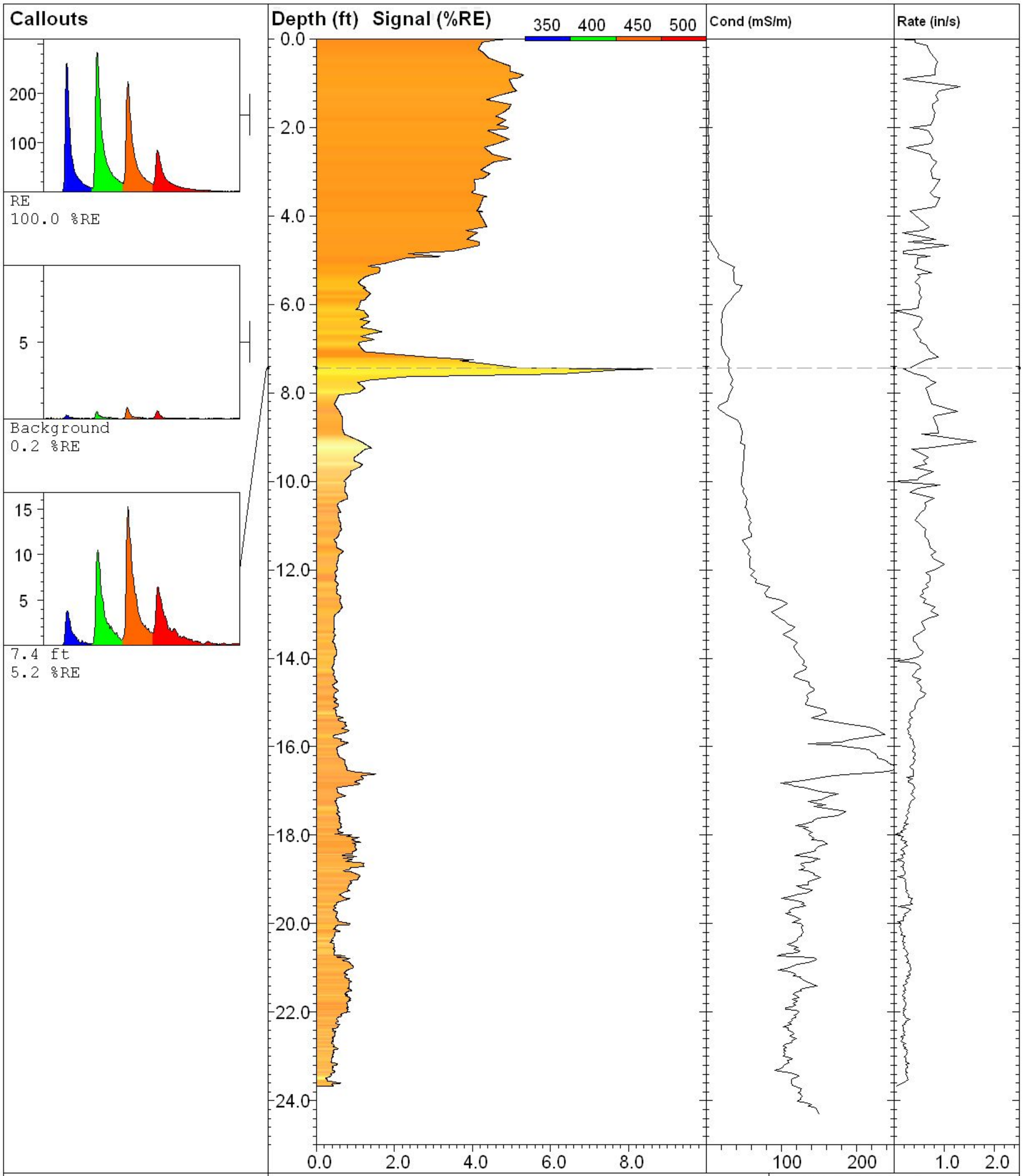
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-16-020A**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **5.89 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **0.9 % @ 0.88 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-13 13:05 CDT**



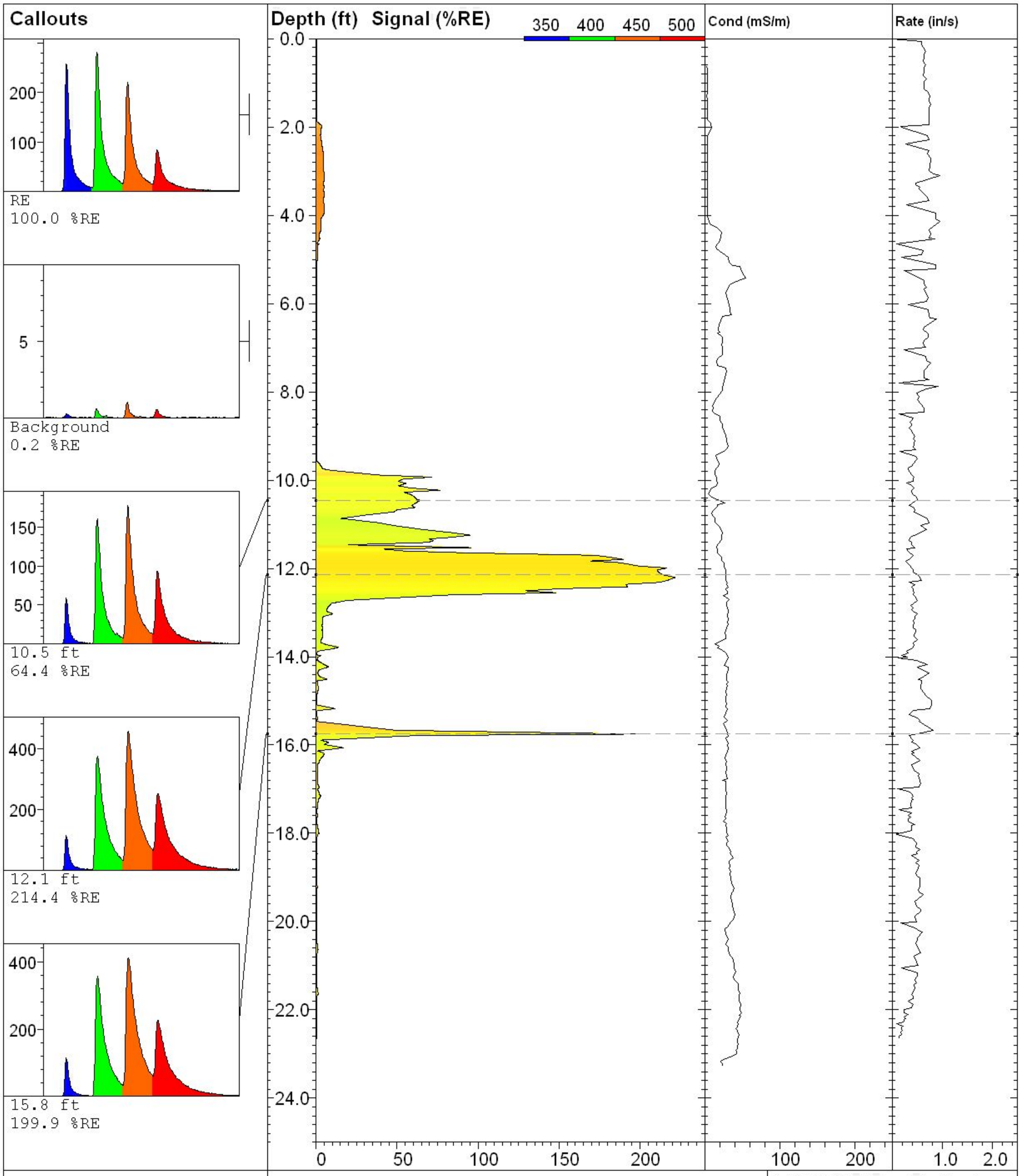
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-16-020B**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **5.90 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **2.1 % @ 5.33 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-22 14:20 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-16-021**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **24.51 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **0.7 % @ 13.16 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-13 09:02 CDT**

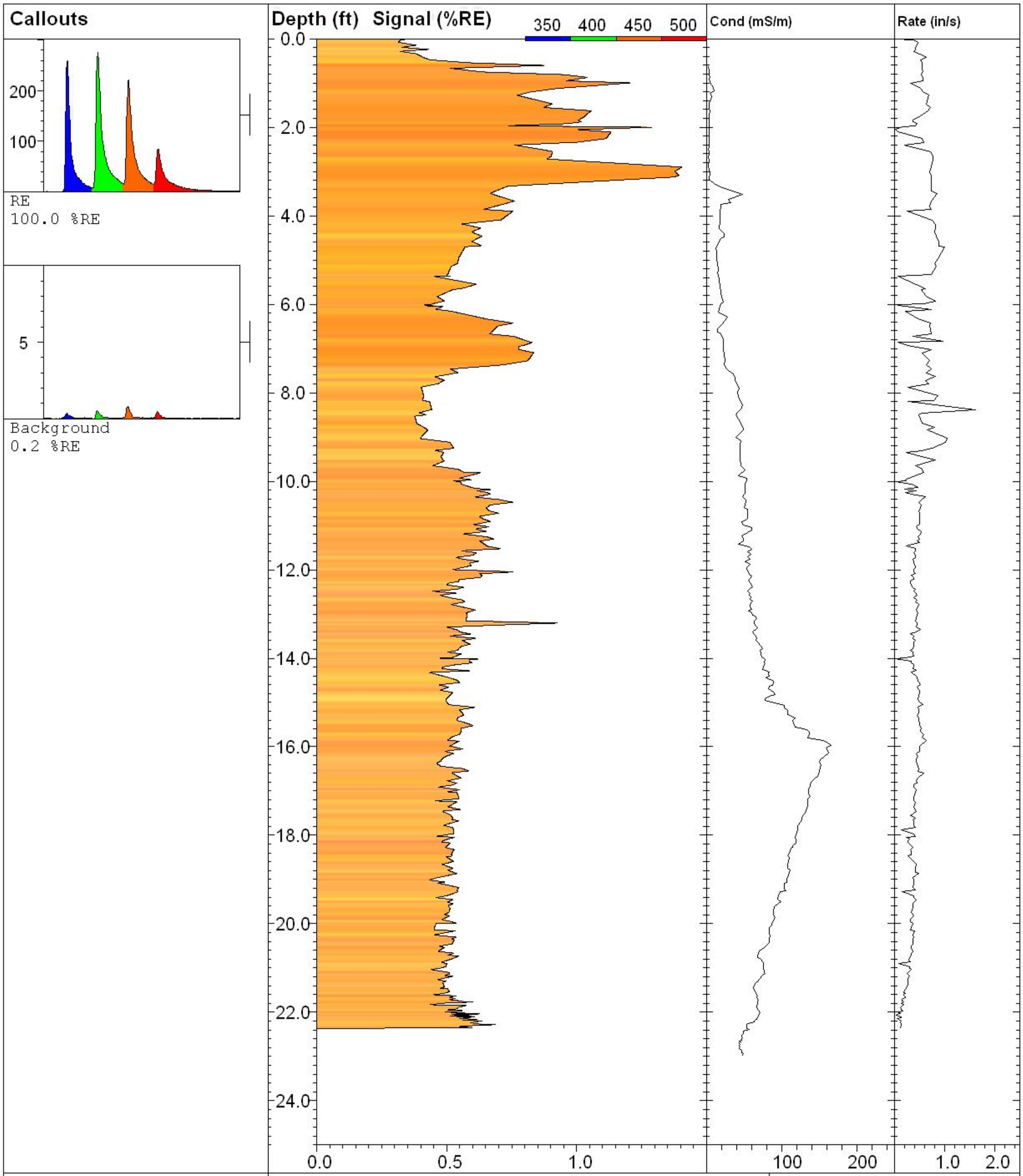


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-16-022**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **23.67 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **8.7 % @ 7.47 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-13 09:48 CDT**



LIF-16-023		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **22.65 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **221.8 % @ 12.21 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-13 10:25 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-16-024**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **22.36 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.4 % @ 2.90 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-14 07:44 CDT**

Buick City
Area 36

MATRIX ENVIRONMENTAL LLC

11253 91st Avenue North
Maple Grove, Minnesota
(763) 424-4803
fax (763) 424-9452

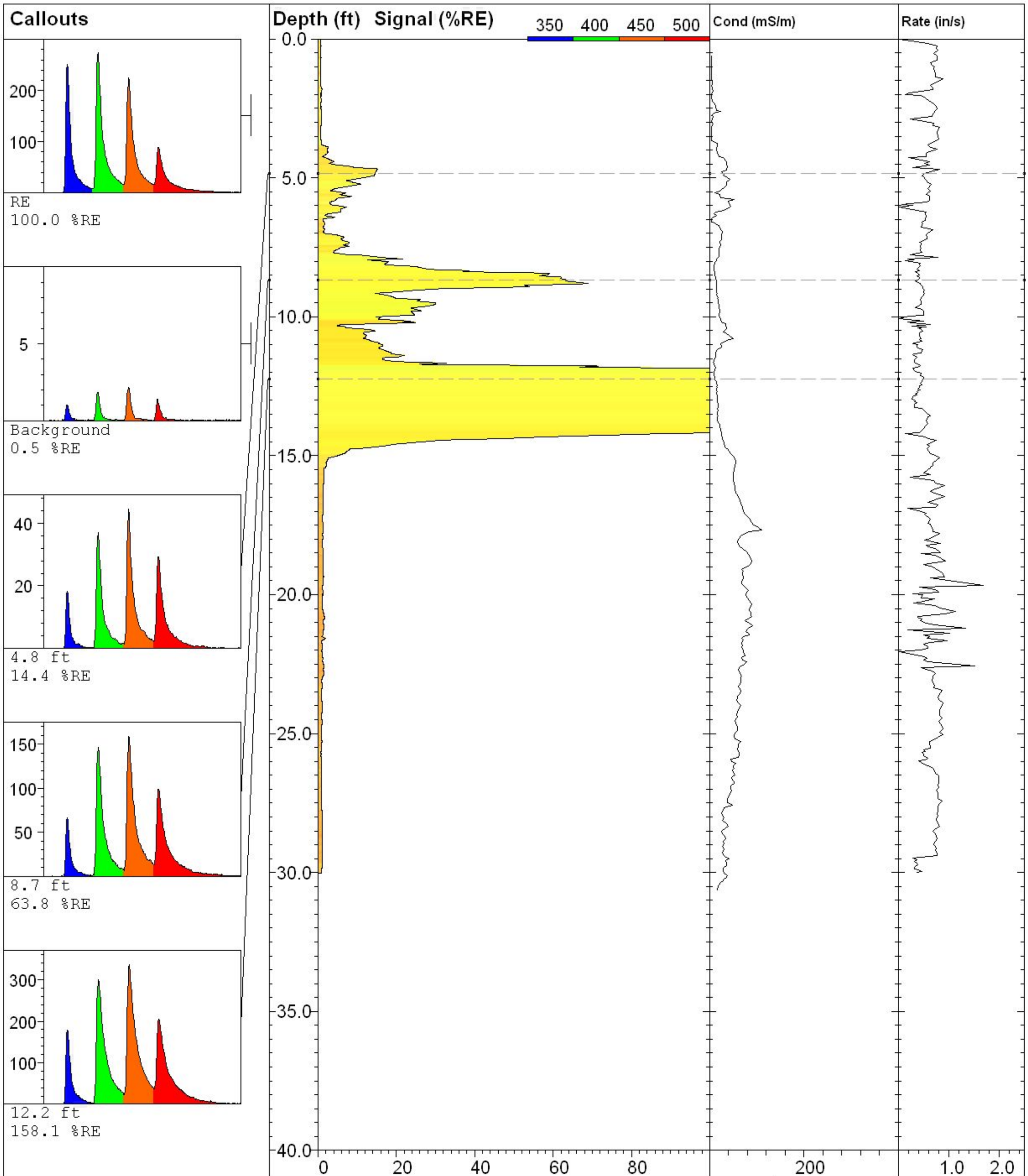
Client:	ARCADIS
Contact:	Megan Reightler
Services:	UVOST Logging
Date:	10/10/2011 - 10/29/2011
Project:	Buick City
Project #:	135-MNDS-11UV
Address:	Flint, MI

UVOST Log Summary

File	Date/Time	Latitude	Longitude	Final Depth *(ft)*	Max Signal *(%RE)*	Max. Signal Depth *(ft)*	Initial RE Area *(pVs)*	Background Area *(pVs)*	Fluorescence Top - Bottom *(ft)*
LIF-36-001	10/17/2011 15:35	NA	NA	30.0	162	12.2	11611	60	5.0 - 15.6
LIF-36-002	10/17/2011 16:22	NA	NA	30.0	133	11.3	11549	68	5.0 - 17.9
LIF-36-003	10/18/2011 8:04	NA	NA	30.0	151	12.5	11208	66	5.0 - 18.3
LIF-36-004	10/18/2011 8:48	NA	NA	30.0	27	14.0	11330	57	5.0-5.5, 12.6-15.5
LIF-36-005	10/18/2011 9:28	NA	NA	30.0	136	14.7	11966	55	8.6 - 23.2
LIF-36-006	10/18/2011 10:07	NA	NA	30.0	142	14.3	11422	54	7.1 - 17.1
LIF-36-007	10/18/2011 10:53	NA	NA	30.0	56	7.4	11278	54	5.0 - 14.7
LIF-36-008	10/18/2011 13:18	NA	NA	30.0	139	11.9	11818	59	5.0 - 17.1
LIF-36-009	10/18/2011 16:25	NA	NA	6.0	19	1.3	11770	69	NA
LIF-36-010	10/19/2011 7:20	NA	NA	30.0	437	15.6	11570	56	5.0 - 18.1
LIF-36-011	10/19/2011 8:09	NA	NA	30.0	323	13.3	11664	63	11.1 - 19.8
LIF-36-012	10/19/2011 8:49	NA	NA	30.0	302	13.6	11930	53	10.8 - 19.1
LIF-36-013	10/19/2011 9:28	NA	NA	30.0	149	20.1	11463	52	5.0-7.9, 11.7-21.2
LIF-36-014	10/19/2011 10:11	NA	NA	30.0	314	12.6	11440	58	5.0-7.1, 11.6-19.3
LIF-36-015	10/19/2011 10:56	NA	NA	30.0	22	1.9	11685	67	5.0-7.4, 11.2-13.0
LIF-36-016	10/19/2011 13:55	NA	NA	30.1	3	0.0	11218	58	NA
LIF-36-017	10/19/2011 14:34	NA	NA	30.0	180	14.3	11838	62	5.0 - 15.8
LIF-36-018	10/20/2011 7:32	NA	NA	30.0	392	14.2	11599	66	5.0 - 20.1
LIF-36-019	10/20/2011 8:18	NA	NA	9.4	43	5.4	11588	62	5.0 - 9.4
LIF-36-020	10/20/2011 8:57	NA	NA	30.0	292	16.9	11528	67	5.0 - 22.2
LIF-36-021	10/20/2011 9:58	NA	NA	30.0	300	17.7	11462	74	5.0 - 21.9
LIF-36-022	10/20/2011 10:58	NA	NA	30.0	55	4.6	11503	90	NA, see log.
LIF-36-023	10/20/2011 12:59	NA	NA	30.0	27	4.8	11403	62	5.0 - 9.9
LIF-36-024	10/20/2011 13:42	NA	NA	30.0	225	19.0	11875	59	5.0-10.5, 15.7-22.0
LIF-36-025	10/20/2011 14:25	NA	NA	30.1	260	13.6	11905	68	5.0 - 22.2
LIF-36-026	10/20/2011 15:07	NA	NA	30.0	359	15.3	11725	79	5.0 - 20.1
LIF-36-027	10/20/2011 15:54	NA	NA	30.0	243	12.1	11267	77	5.0 - 19.0

LIF-36-028	10/21/2011 7:29	NA	NA	30.0	8	2.7	11670	56	NA
LIF-36-029	10/21/2011 8:09	NA	NA	6.5	3	0.8	11886	71	NA
LIF-36-029A	10/21/2011 15:42	NA	NA	30.0	3	5.8	11420	79	NA
LIF-36-030	10/21/2011 8:36	NA	NA	30.0	122	13.7	11826	64	5.0-6.8, 10.4-16.4
LIF-36-031	10/21/2011 9:22	NA	NA	30.0	51	11.3	11950	60	7.2 - 14.9
LIF-36-032	10/21/2011 9:57	NA	NA	30.0	146	11.2	11863	65	5.0 - 13.8
LIF-36-033	10/21/2011 10:57	NA	NA	30.0	149	9.1	11456	73	7.3 - 11.0
LIF-36-034	10/21/2011 12:53	NA	NA	30.0	11	5.0	11505	58	5.0 - 7.2
LIF-36-035	10/21/2011 13:36	NA	NA	30.0	183	13.9	11731	63	5.0 - 16.0
LIF-36-036	10/21/2011 14:21	NA	NA	30.0	3	3.1	11765	59	NA
LIF-36-037	10/21/2011 14:55	NA	NA	30.0	3	1.2	11925	63	NA
LIF-36-038	10/24/2011 10:56	NA	NA	30.0	243	18.0	11563	79	5.0-6.5, 16.3-24.7
LIF-36-039	10/24/2011 10:10	NA	NA	30.0	2	26.0	11205	81	NA
LIF-36-040	10/24/2011 12:34	NA	NA	30.0	433	15.6	11204	59	5.0-7.4, 11.6-22.4
LIF-36-041	10/24/2011 14:35	NA	NA	30.0	315	14.8	11708	64	12.5 - 20.5
LIF-36-042	10/25/2011 7:29	NA	NA	5.4	36	1.1	11832	72	NA
LIF-36-043	10/25/2011 7:59	NA	NA	30.0	28	3.7	11371	82	5.0 - 7.5
LIF-36-044	10/25/2011 8:49	NA	NA	36.4	236	10.6	11813	62	9.0-15.5, 28.0-34.8
LIF-36-045	10/25/2011 9:40	NA	NA	30.0	2	23.7	11652	71	NA
LIF-36-046	10/25/2011 10:15	NA	NA	30.0	257	12.3	11816	70	11.4 - 15.8
LIF-36-047	10/25/2011 12:36	NA	NA	30.0	2	25.2	11401	66	NA
LIF-36-048	10/25/2011 13:27	NA	NA	30.0	2	26.3	11790	67	NA
LIF-36-049	10/25/2011 14:26	NA	NA	30.0	2	24.6	11670	60	NA
LIF-36-050	10/26/2011 7:12	NA	NA	26.6	2	19.8	11734	53	NA
LIF-36-051	10/26/2011 8:09	NA	NA	30.0	2	22.2	11783	49	NA

UVOST LOGS
@ 100% RE



LIF-36-001		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.02 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **162.2 % @ 12.18 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-17 15:35 CDT**

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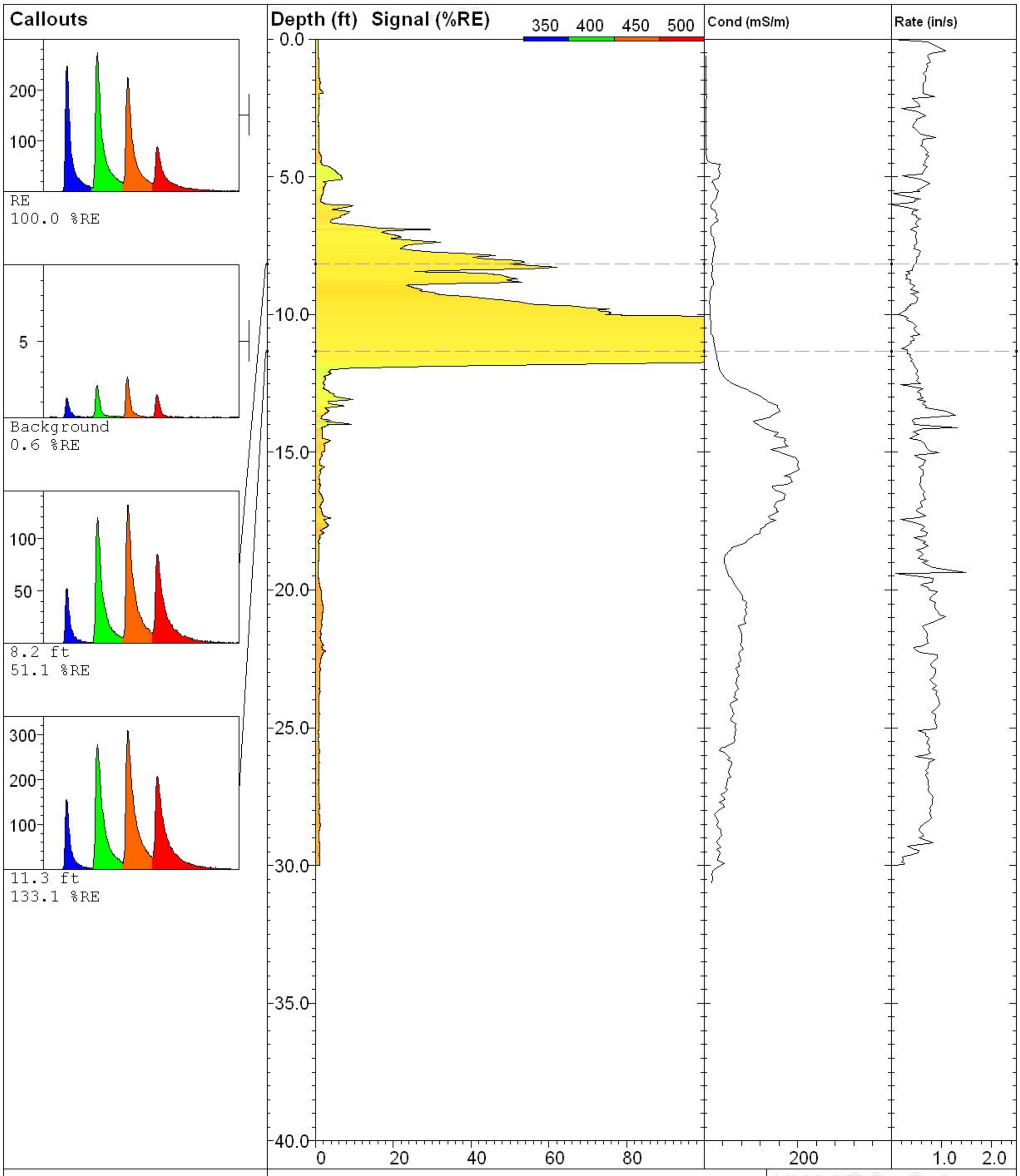
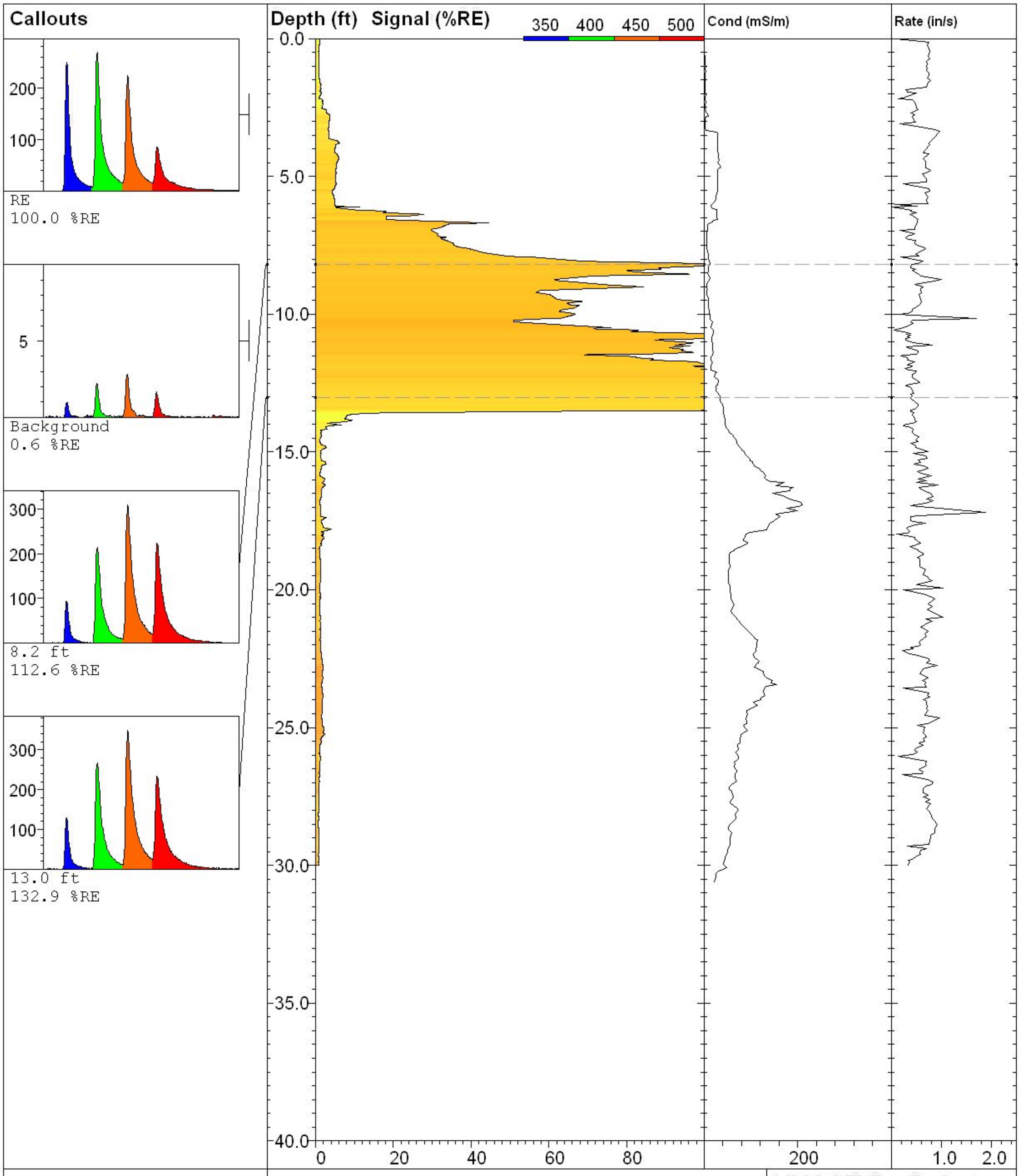
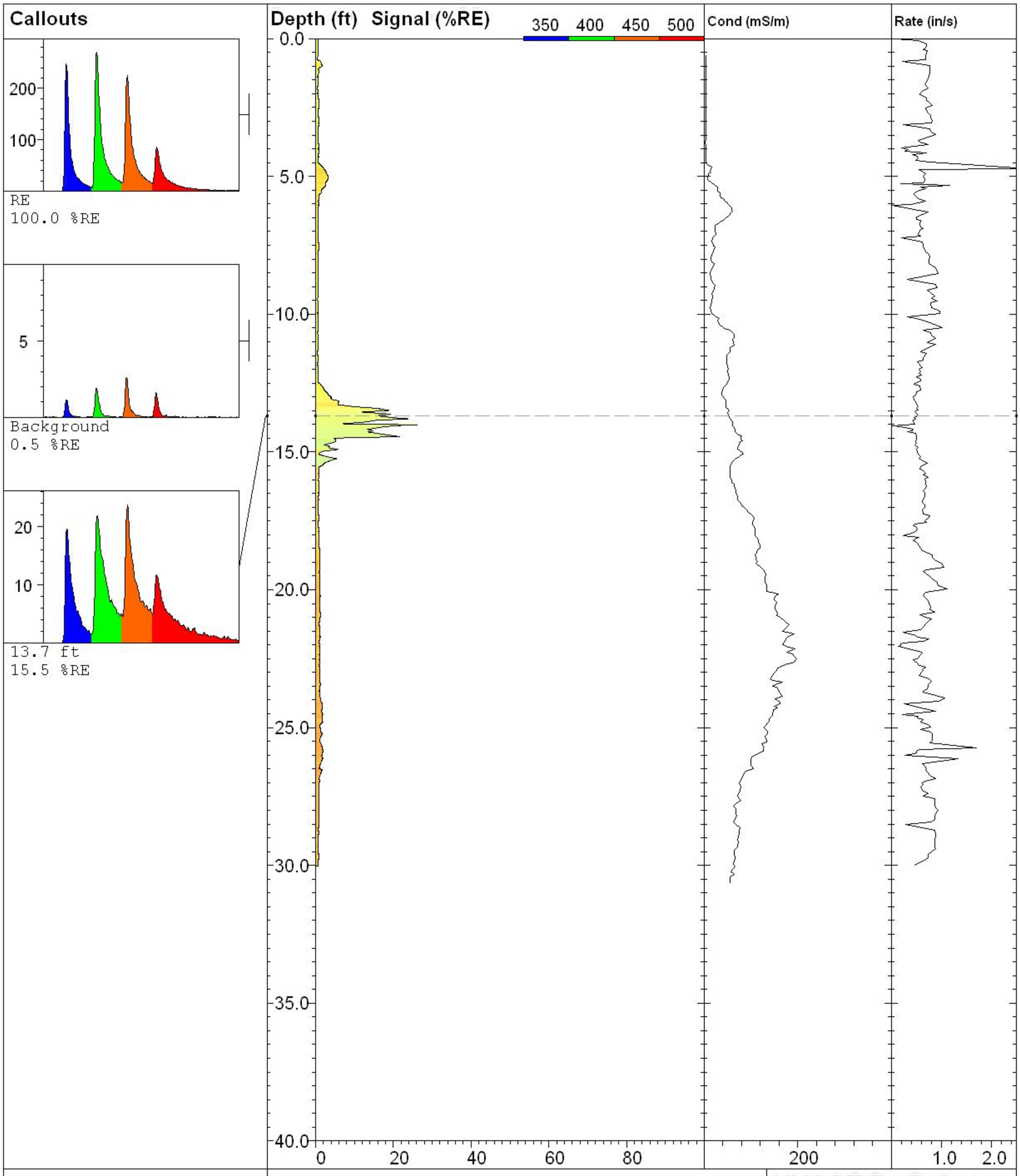


LIF-36-002		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **133.1 % @ 11.34 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-17 16:22 CDT**

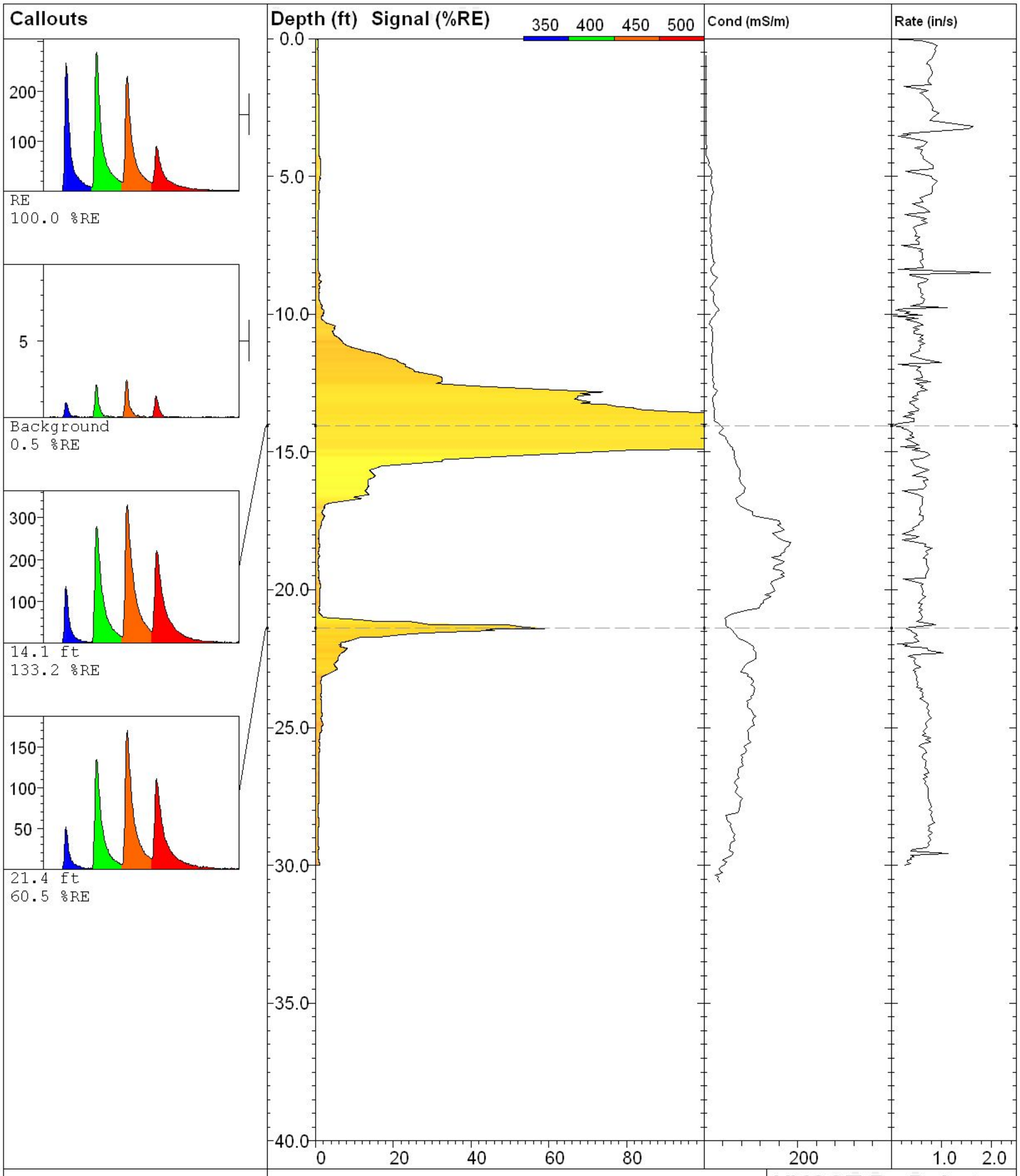
MATRIX ENVIRONMENTAL LLC
www.matrixenv.com



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-003**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **151.4 % @ 12.47 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-18 08:04 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-004**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.03 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **26.5 % @ 14.01 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-18 08:48 CDT**



LIF-36-005		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **136.5 % @ 14.73 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-18 09:28 CDT**

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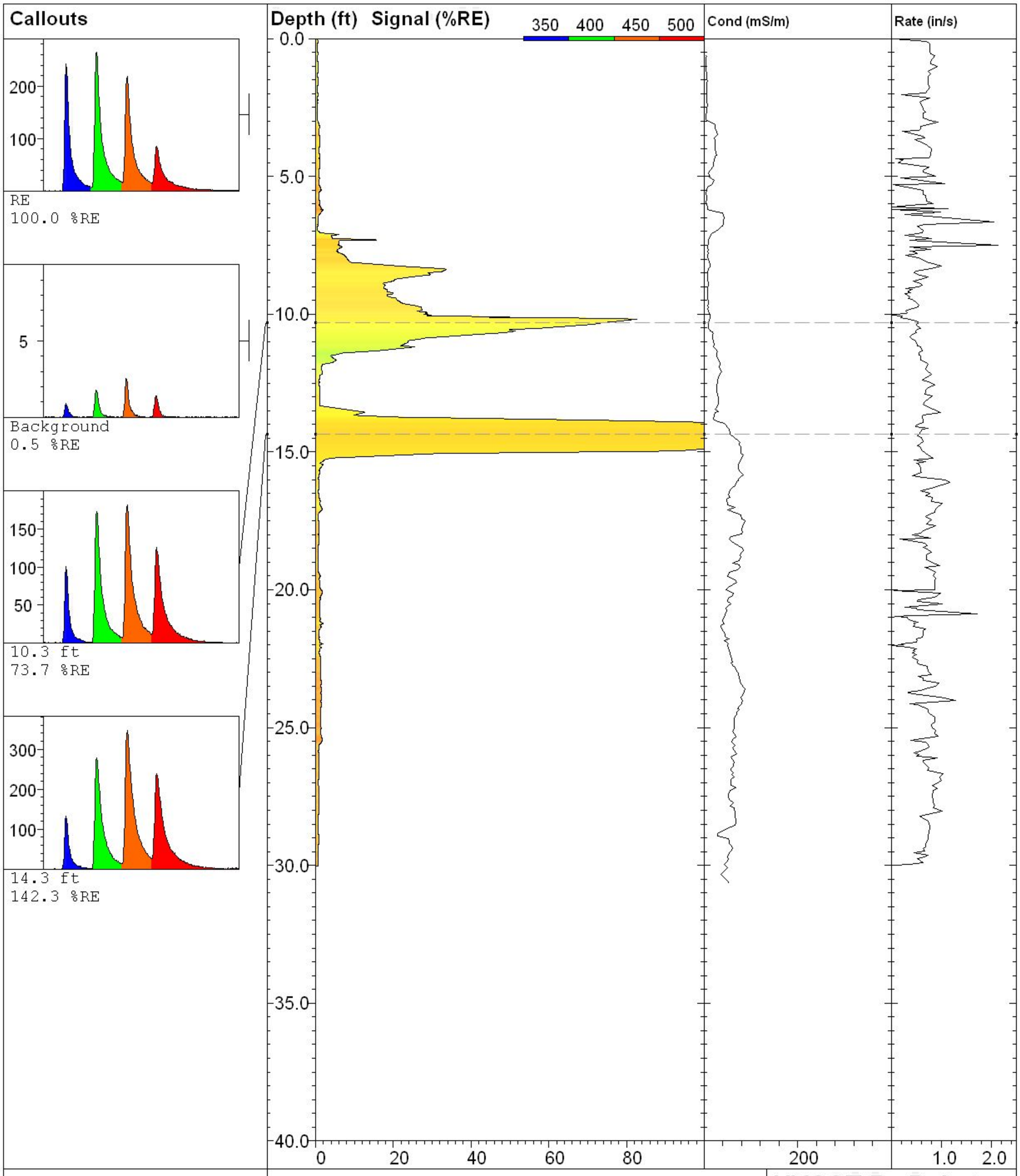

LIF-36-006		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **142.3 % @ 14.35 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-18 10:07 CDT**

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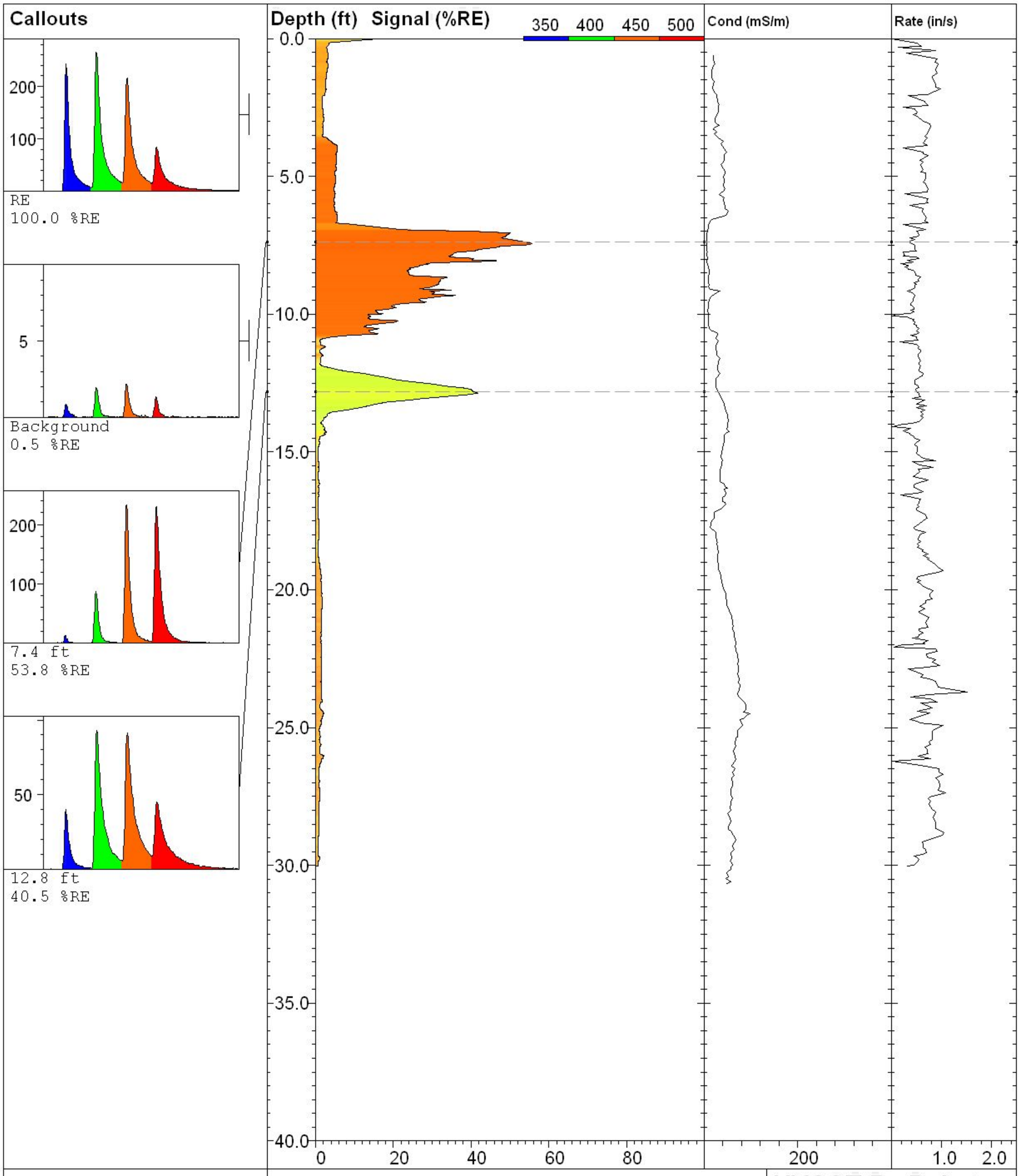
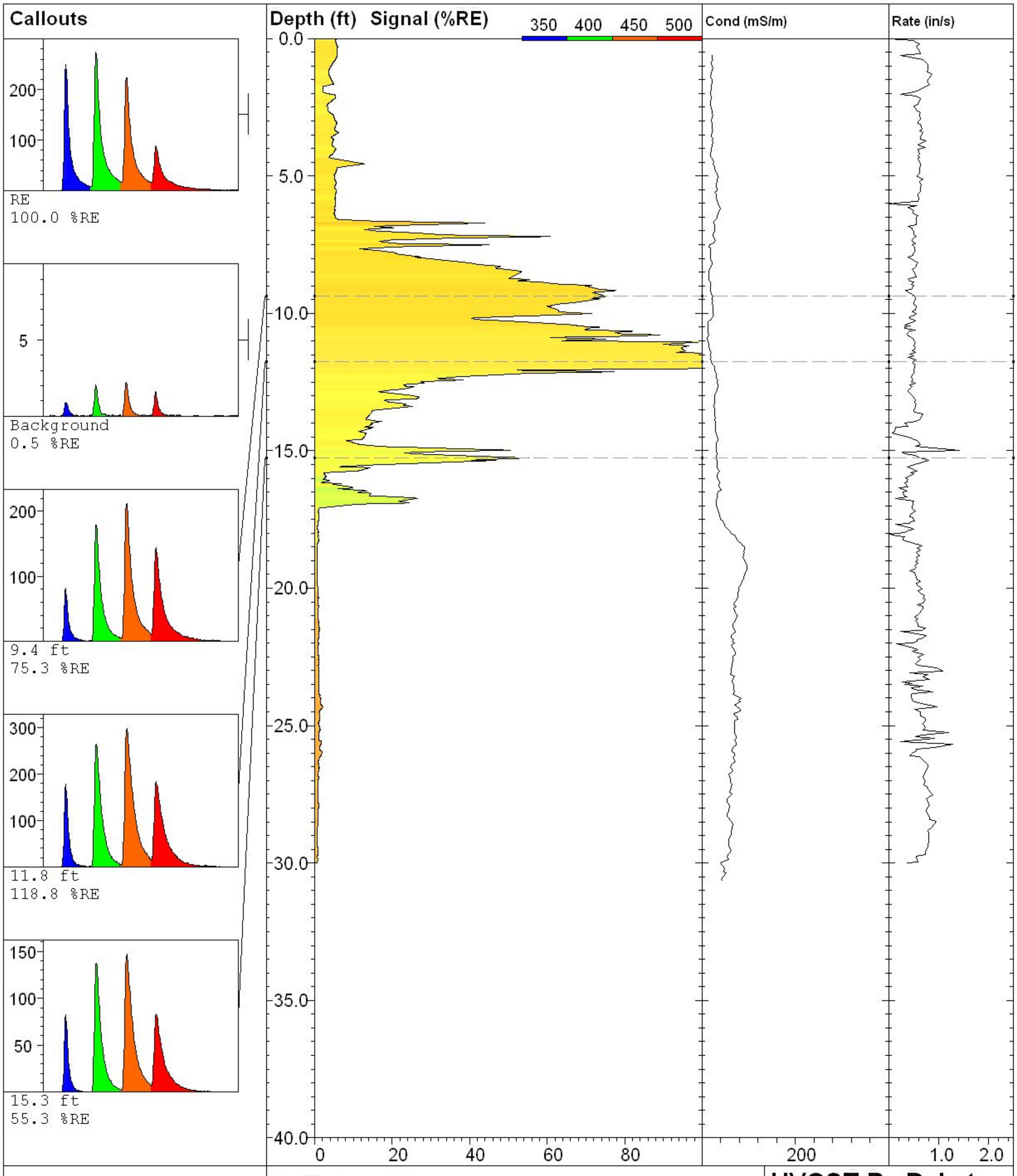


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-007**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.03 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **55.7 % @ 7.44 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-18 10:53 CDT**



LIF-36-008		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **138.7 % @ 11.88 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-18 13:18 CDT**

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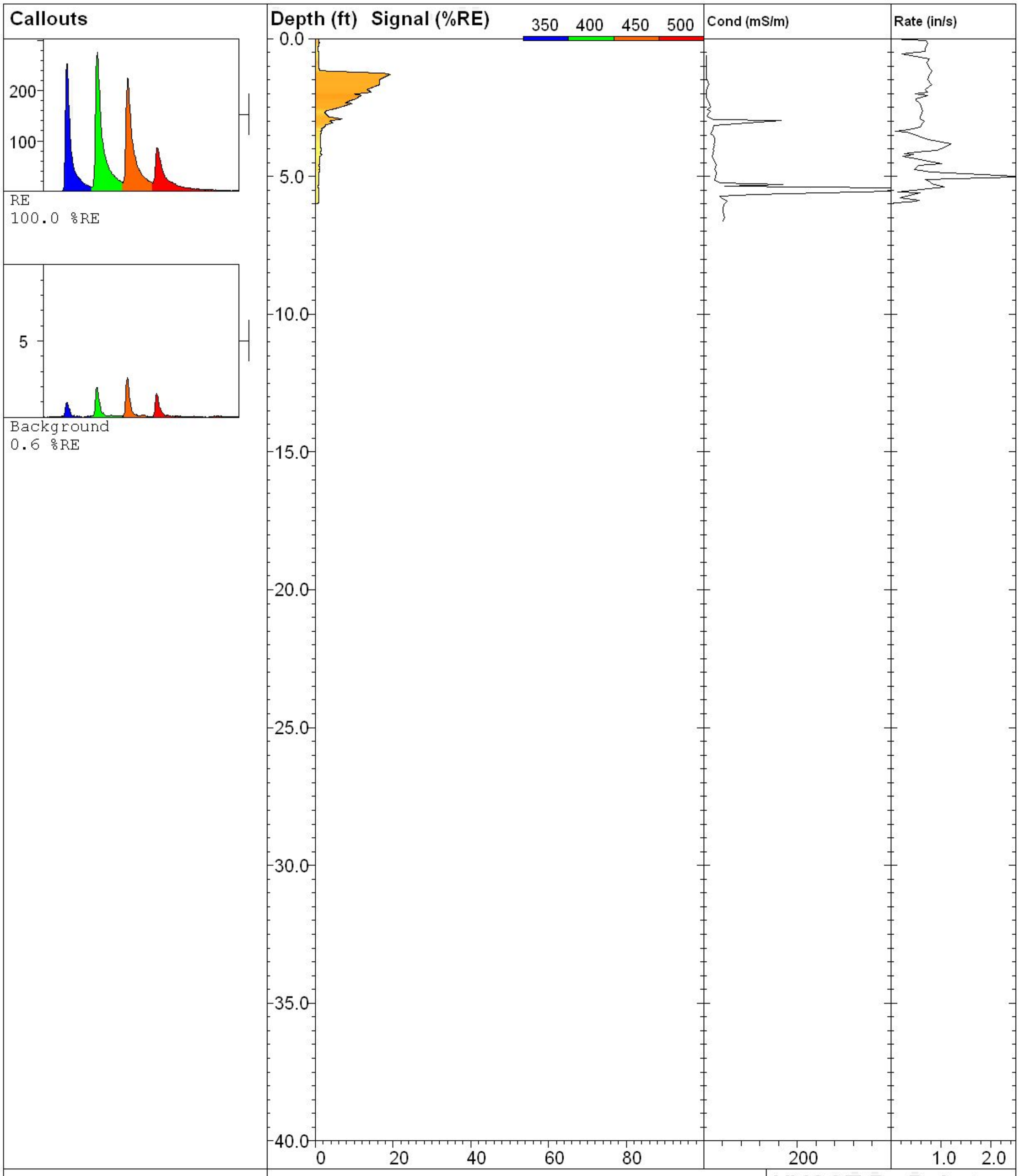
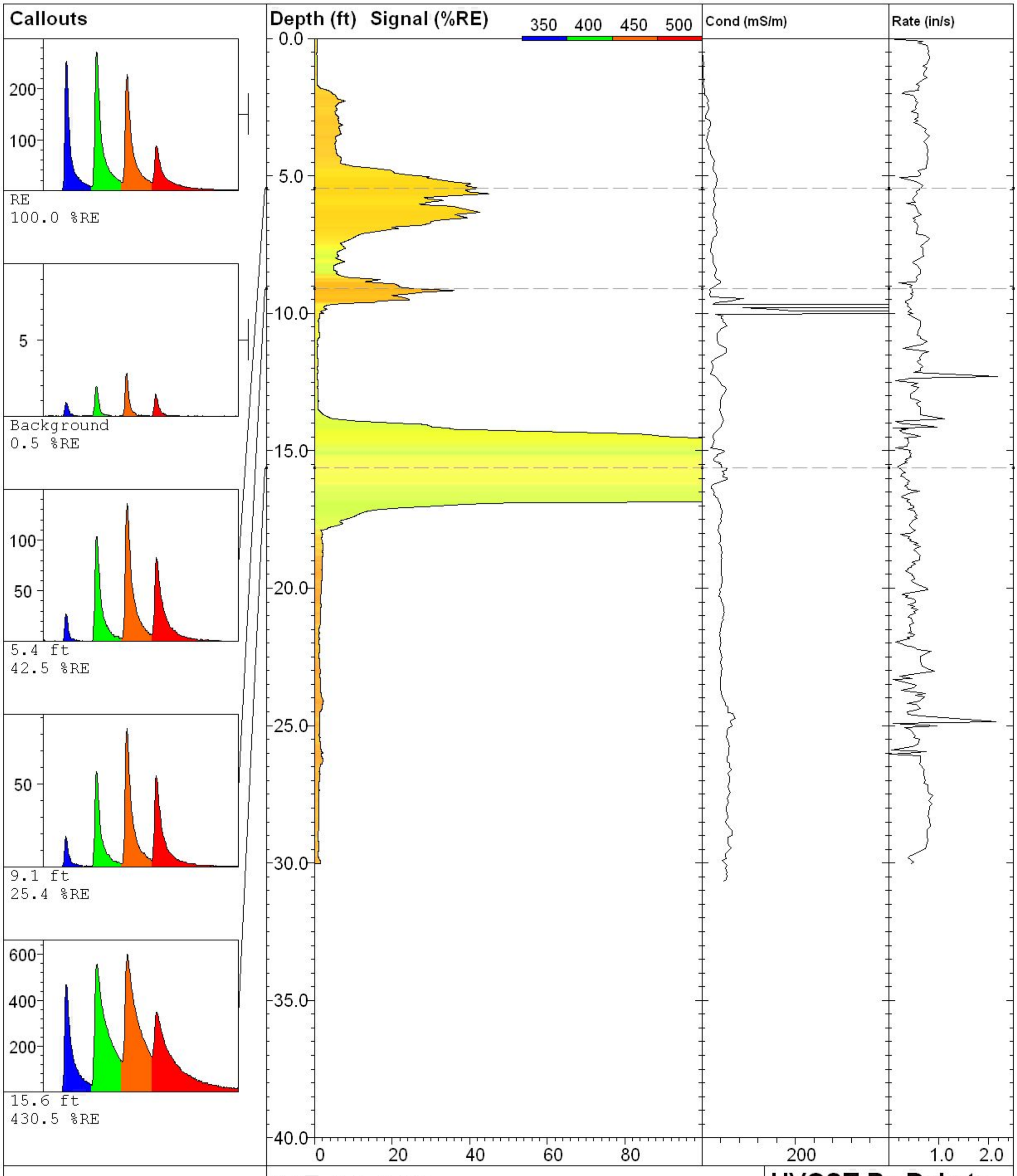


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-009**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **5.99 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **19.2 % @ 1.30 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-18 16:25 CDT**



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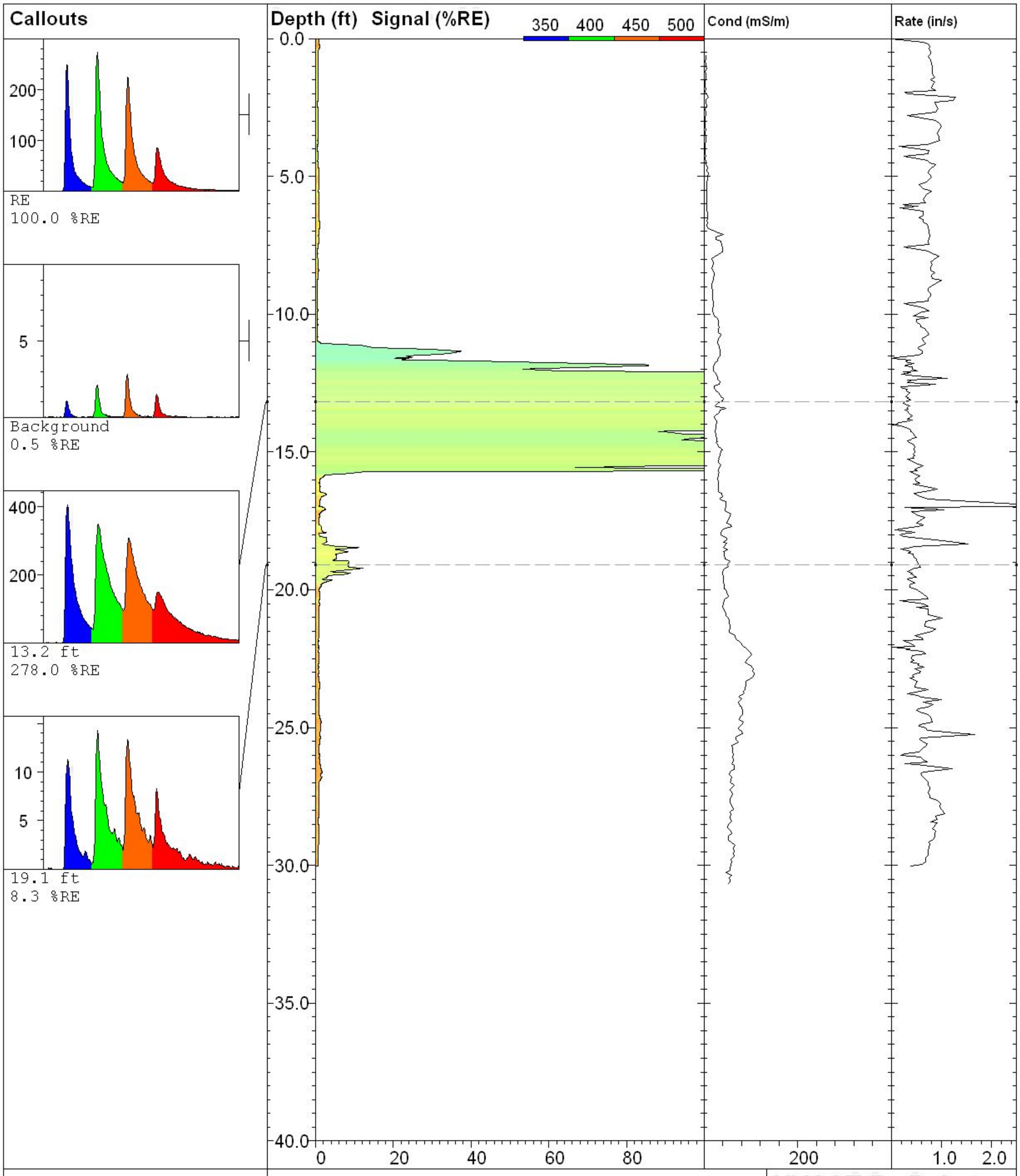
LIF-36-010

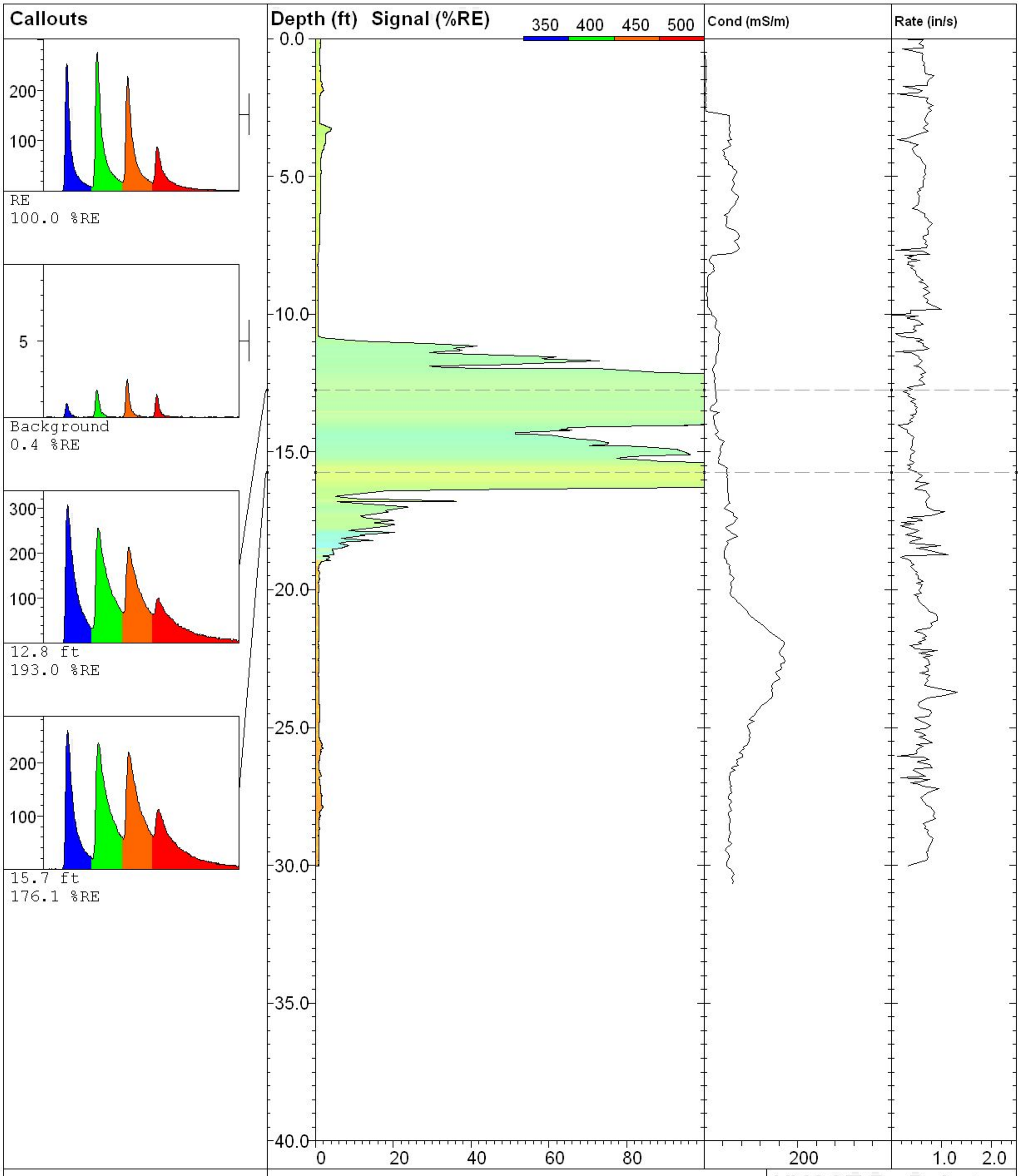
UVOST By Dakota
www.DakotaTechnologies.com

Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.03 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **437.0 % @ 15.56 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-19 07:20 CDT**

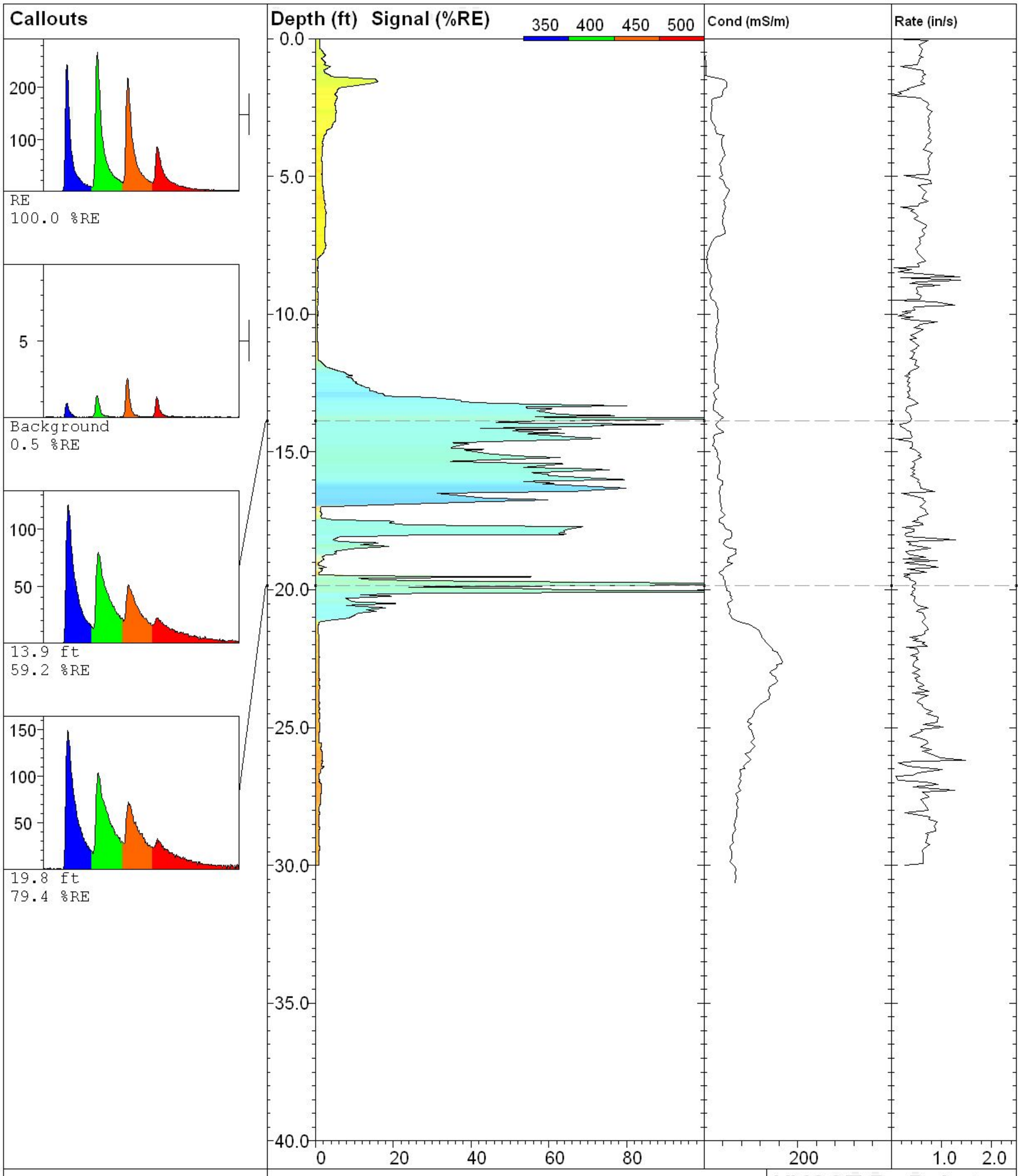


LIF-36-011		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.03 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **322.8 % @ 13.29 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-19 08:09 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

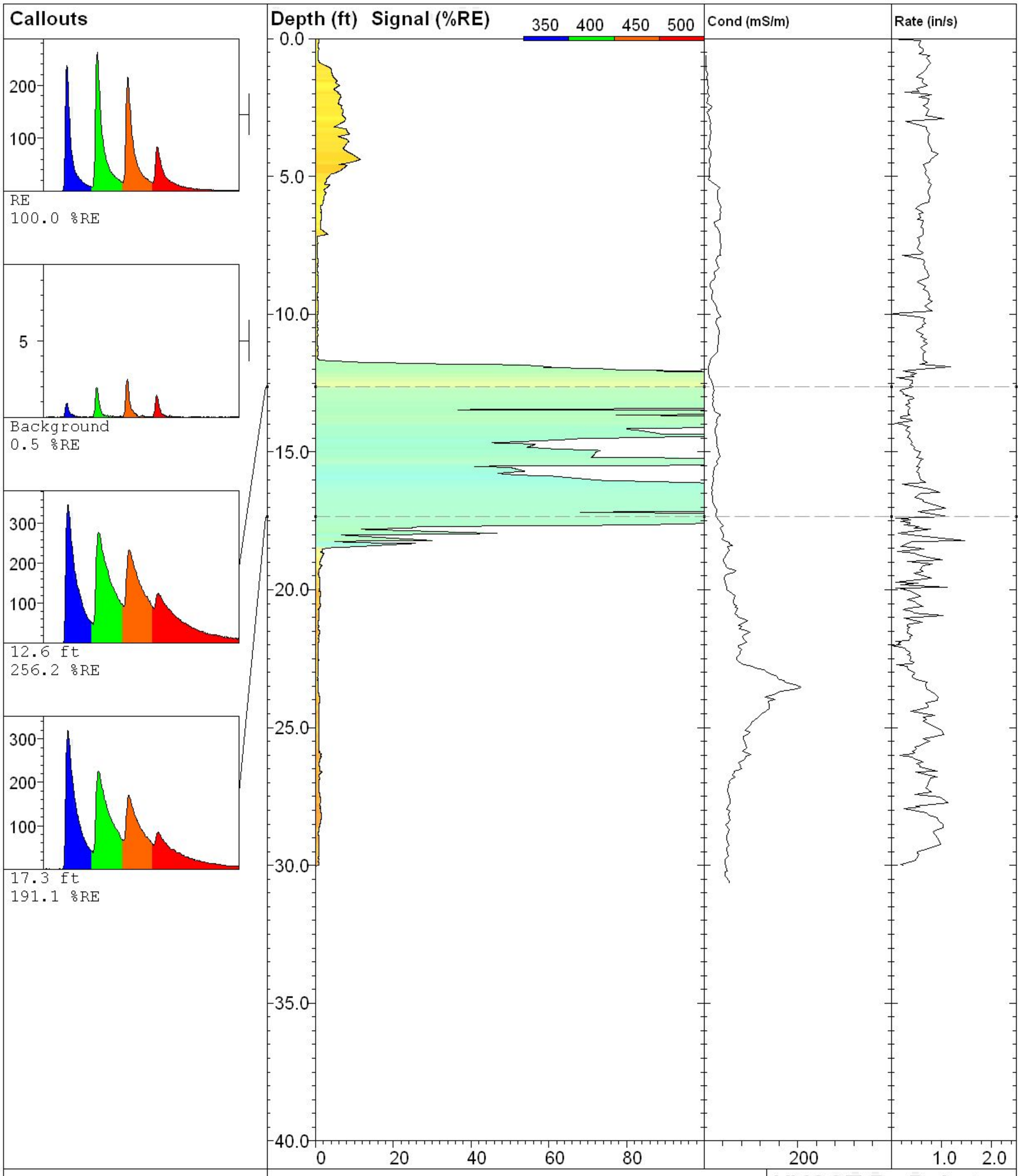


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-012**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.03 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **302.3 % @ 13.56 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-19 08:49 CDT**

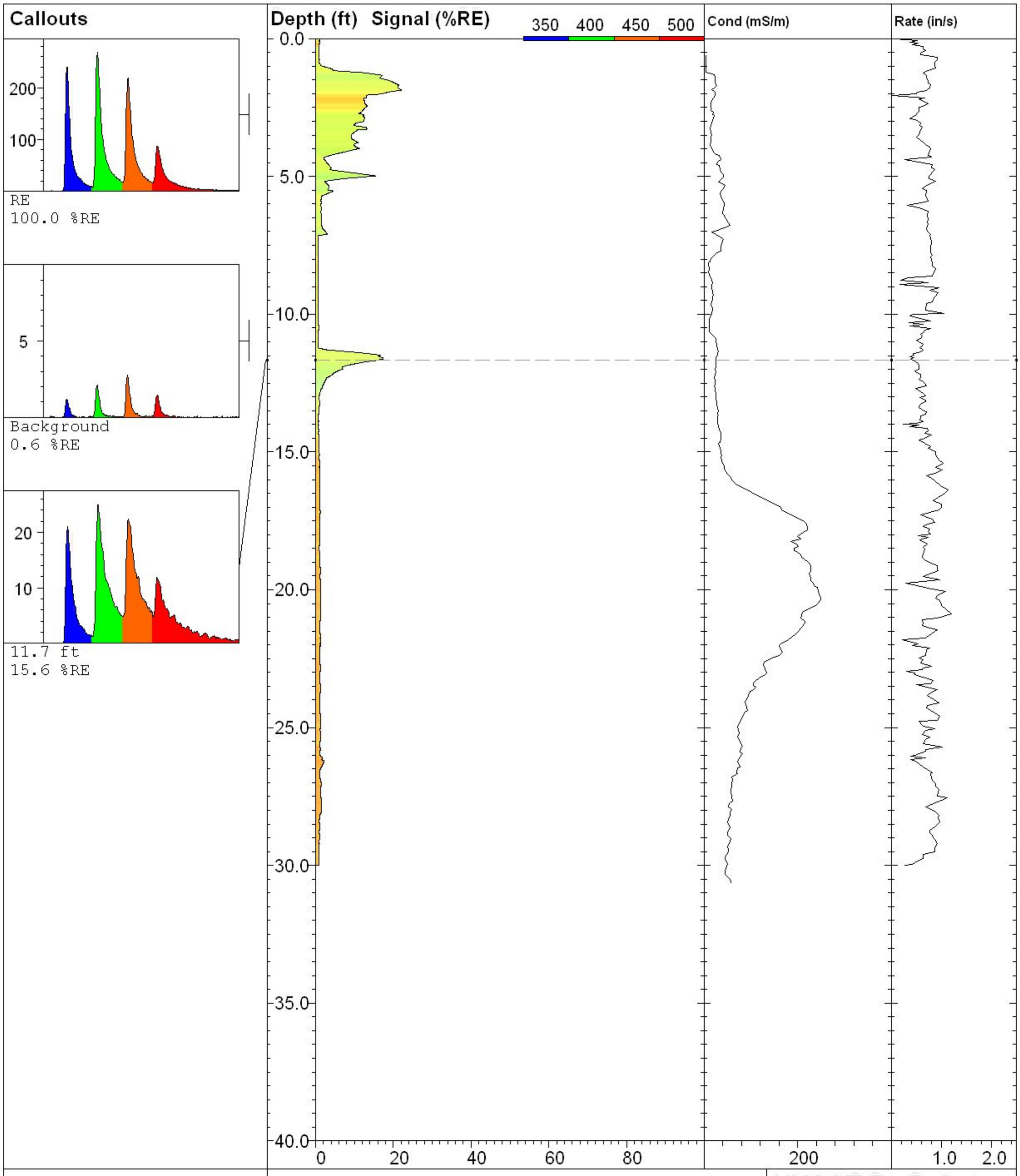


LIF-36-013		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **149.5 % @ 20.06 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-19 09:28 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

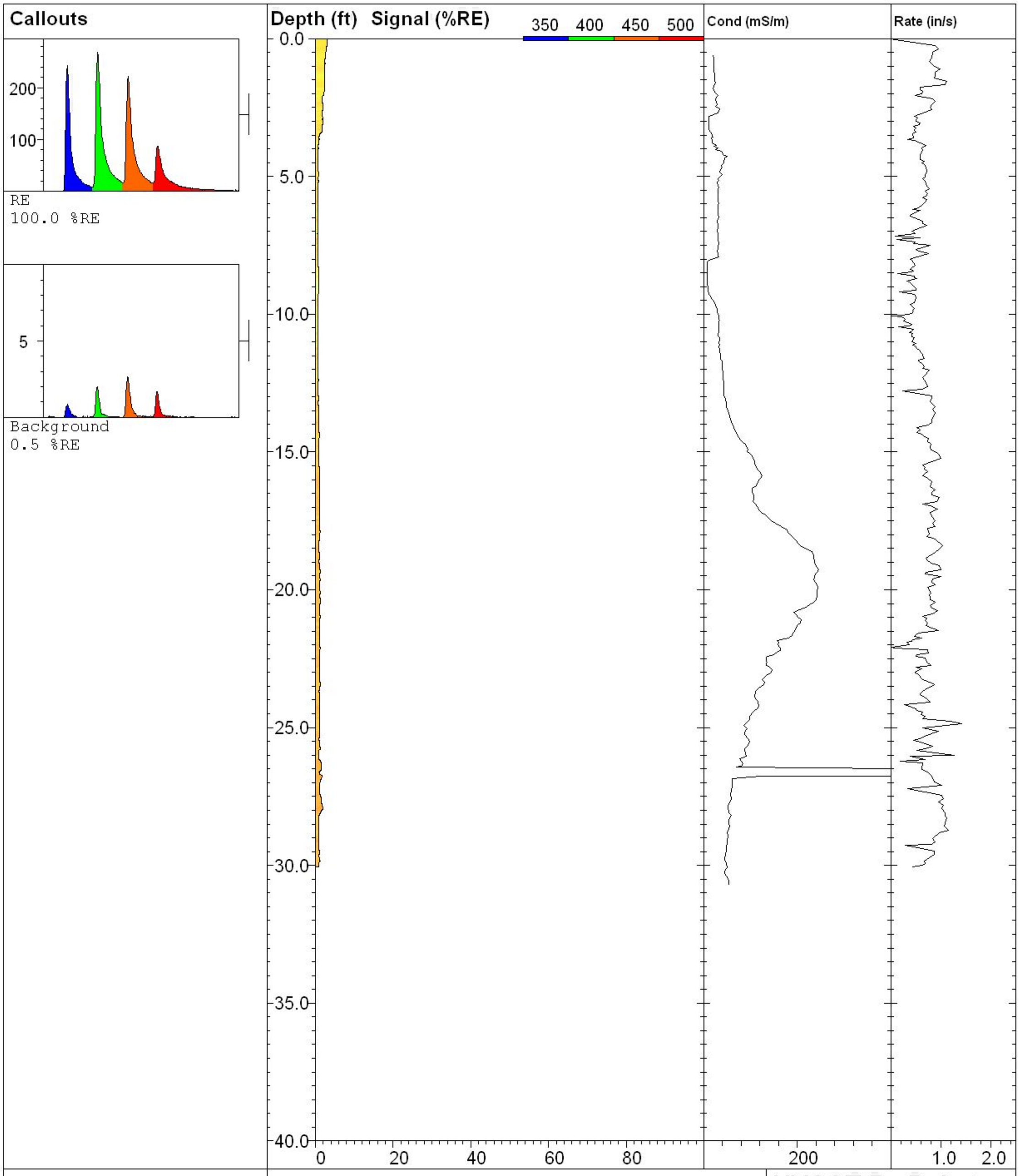


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-014**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **314.2 % @ 12.60 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-19 10:11 CDT**

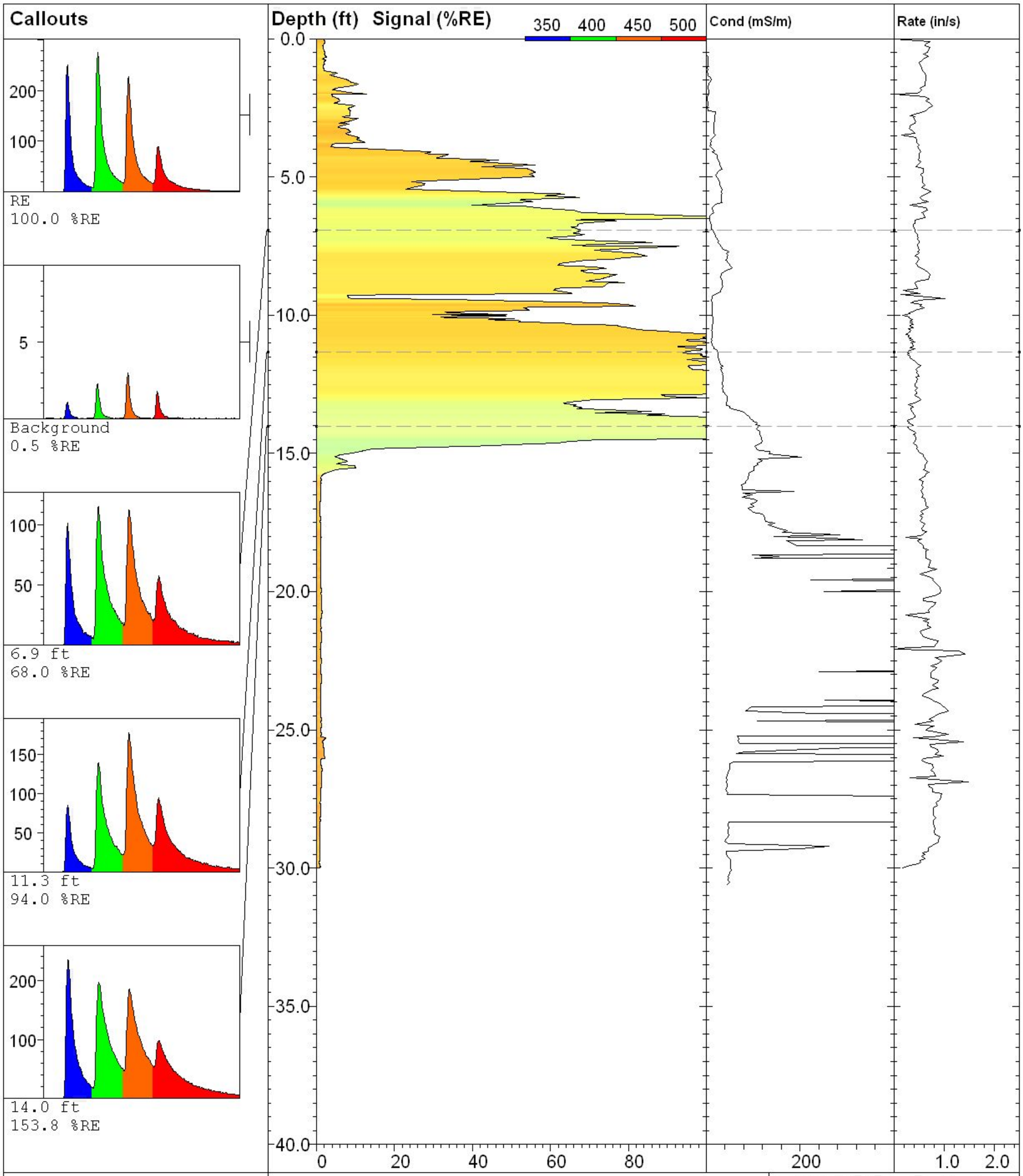


LIF-36-015		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **22.1 % @ 1.87 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-19 10:56 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

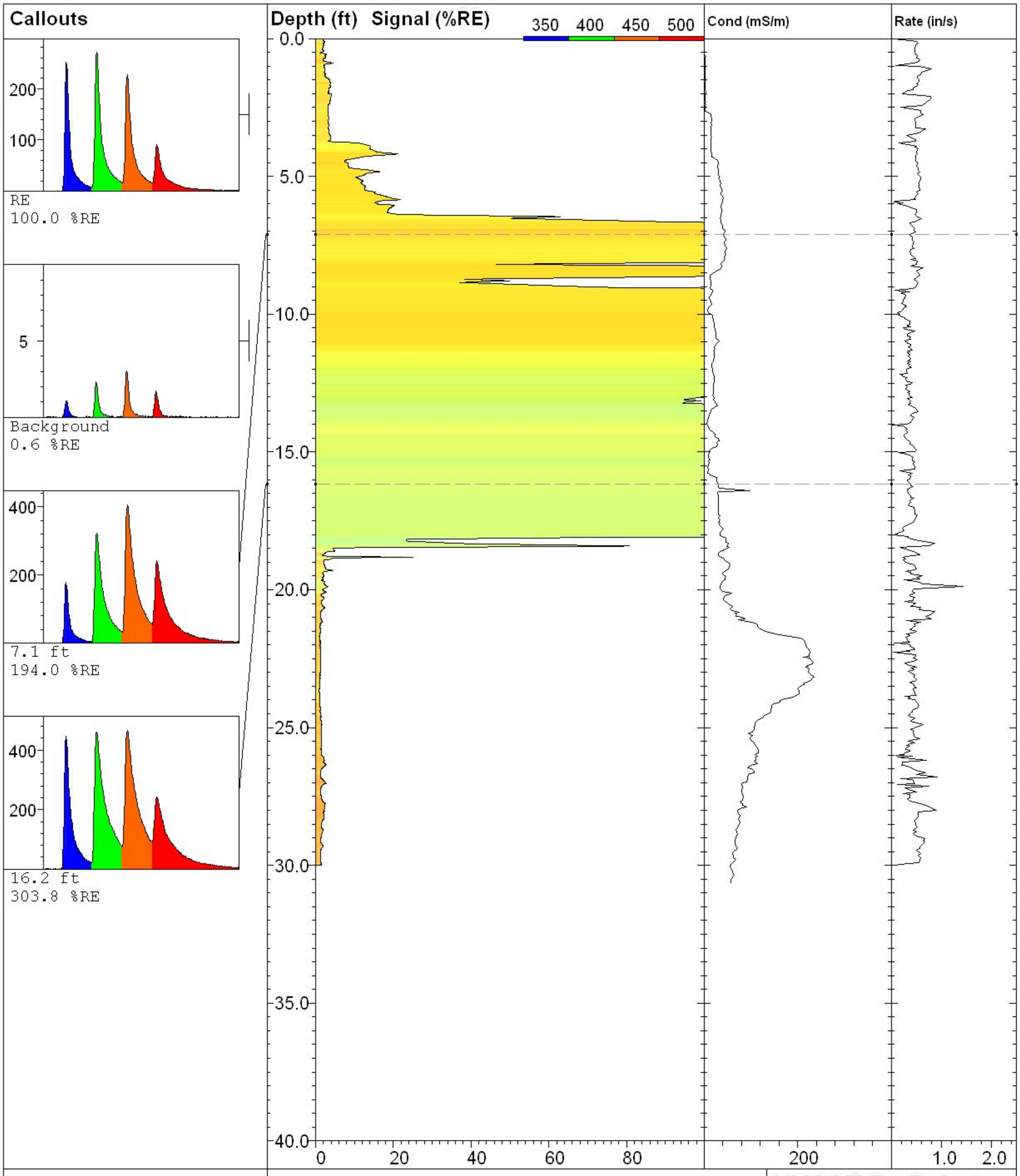


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-016**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.05 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **3.0 % @ 0.00 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-19 13:55 CDT**



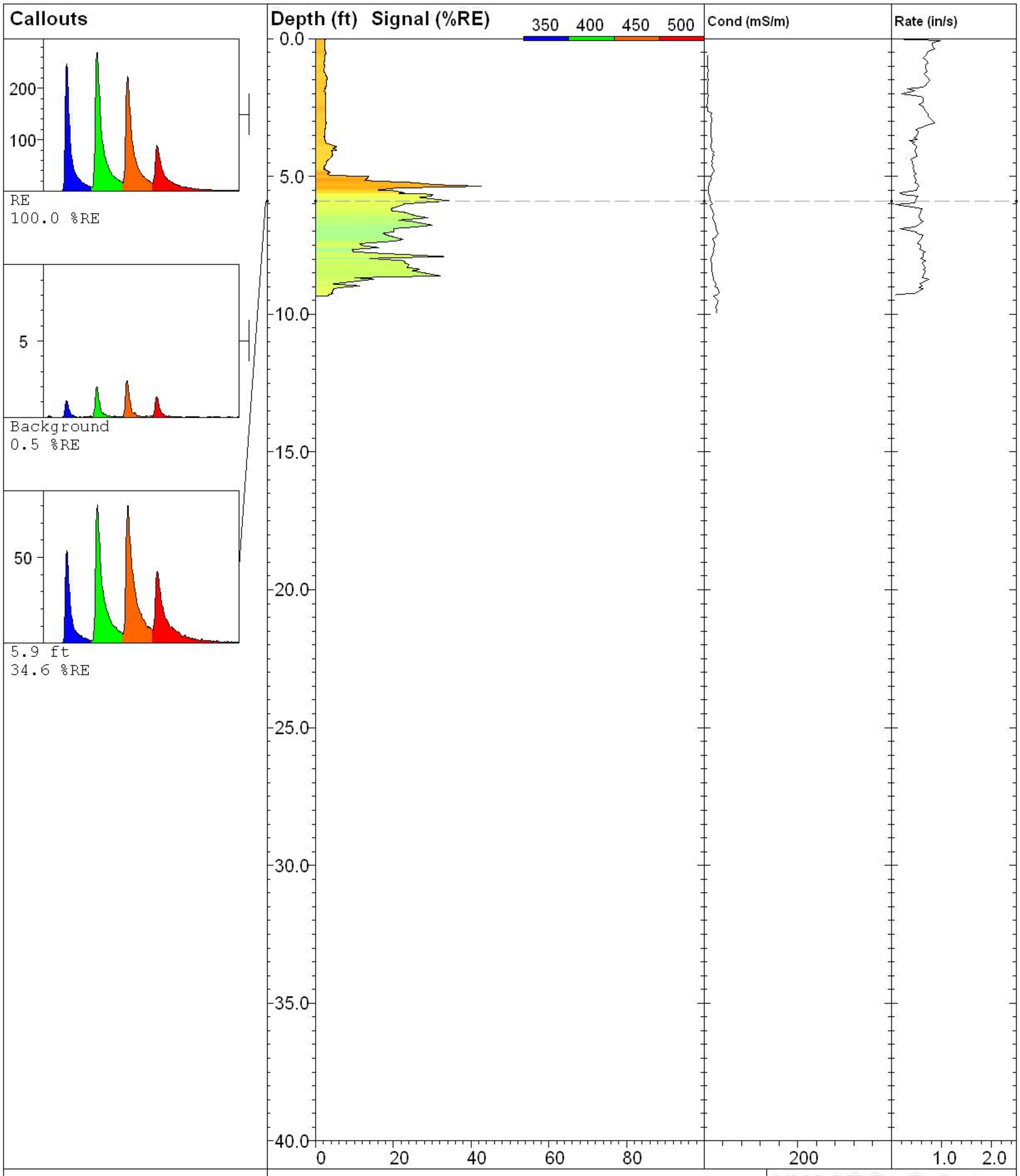
LIF-36-017		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **180.4 % @ 14.27 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-19 14:34 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

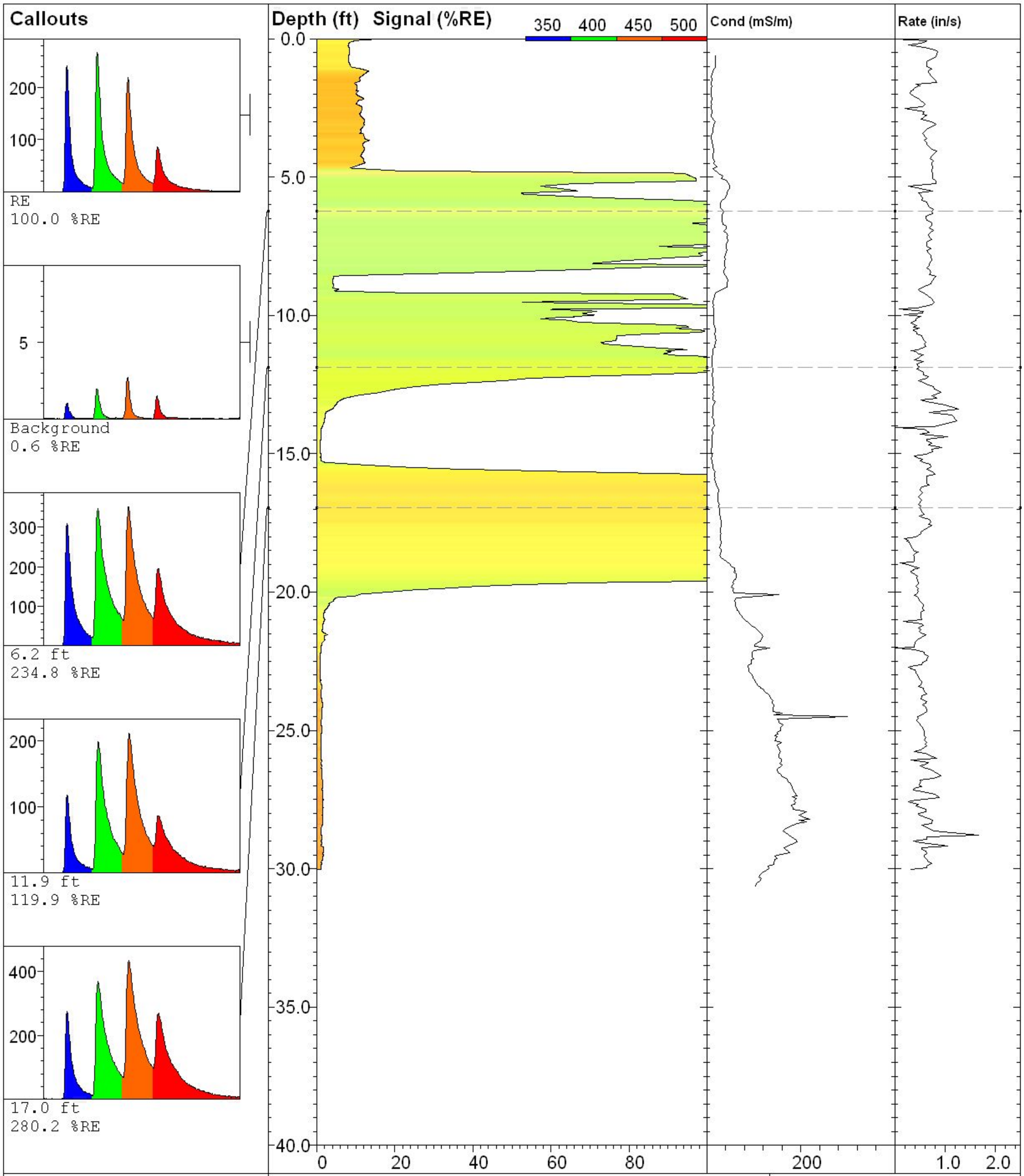


LIF-36-018		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **391.5 % @ 14.22 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-20 07:32 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-019**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **9.35 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **42.8 % @ 5.36 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-20 08:18 CDT**



LIF-36-020		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **292.4 % @ 16.89 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-20 08:57 CDT**

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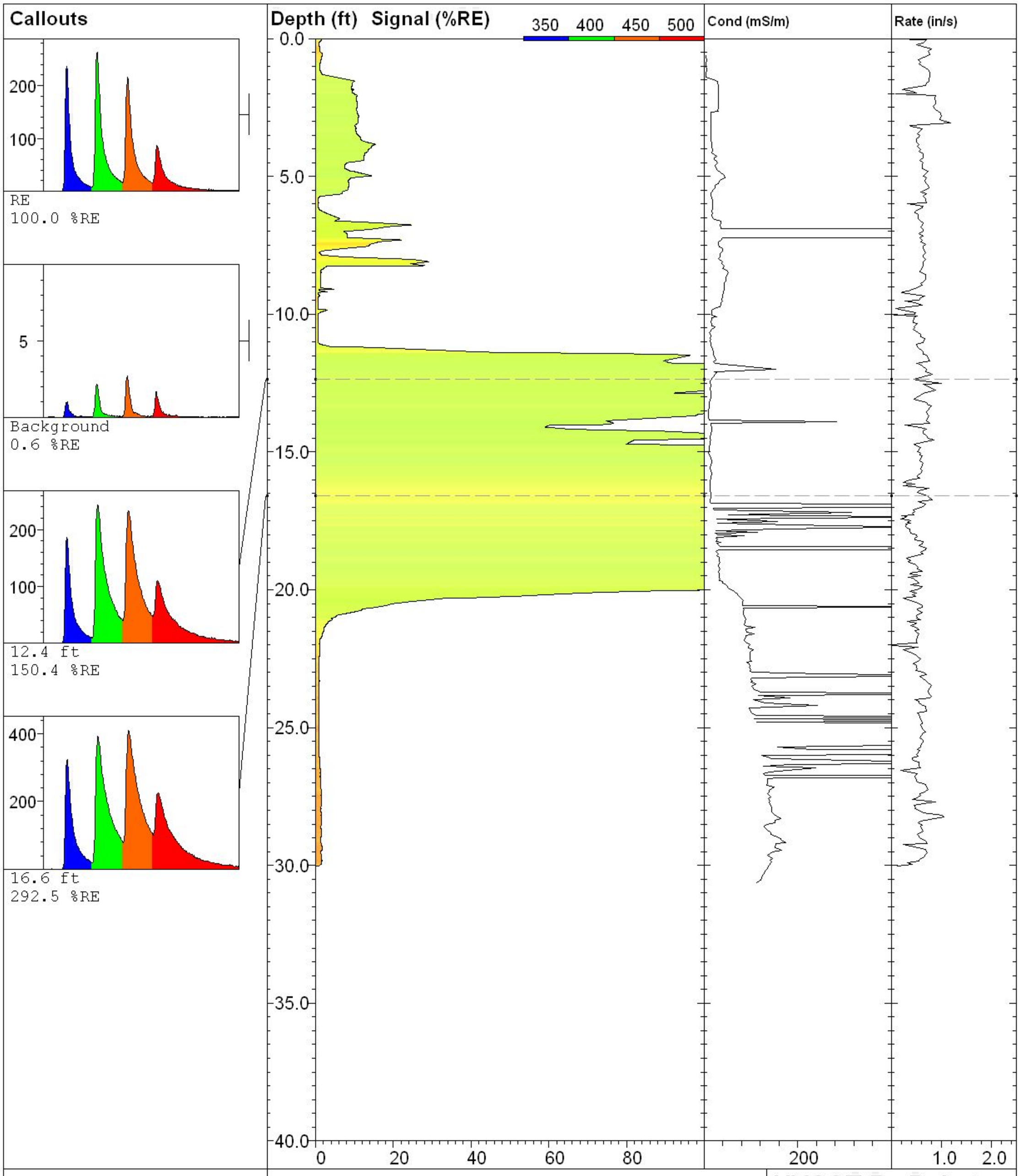
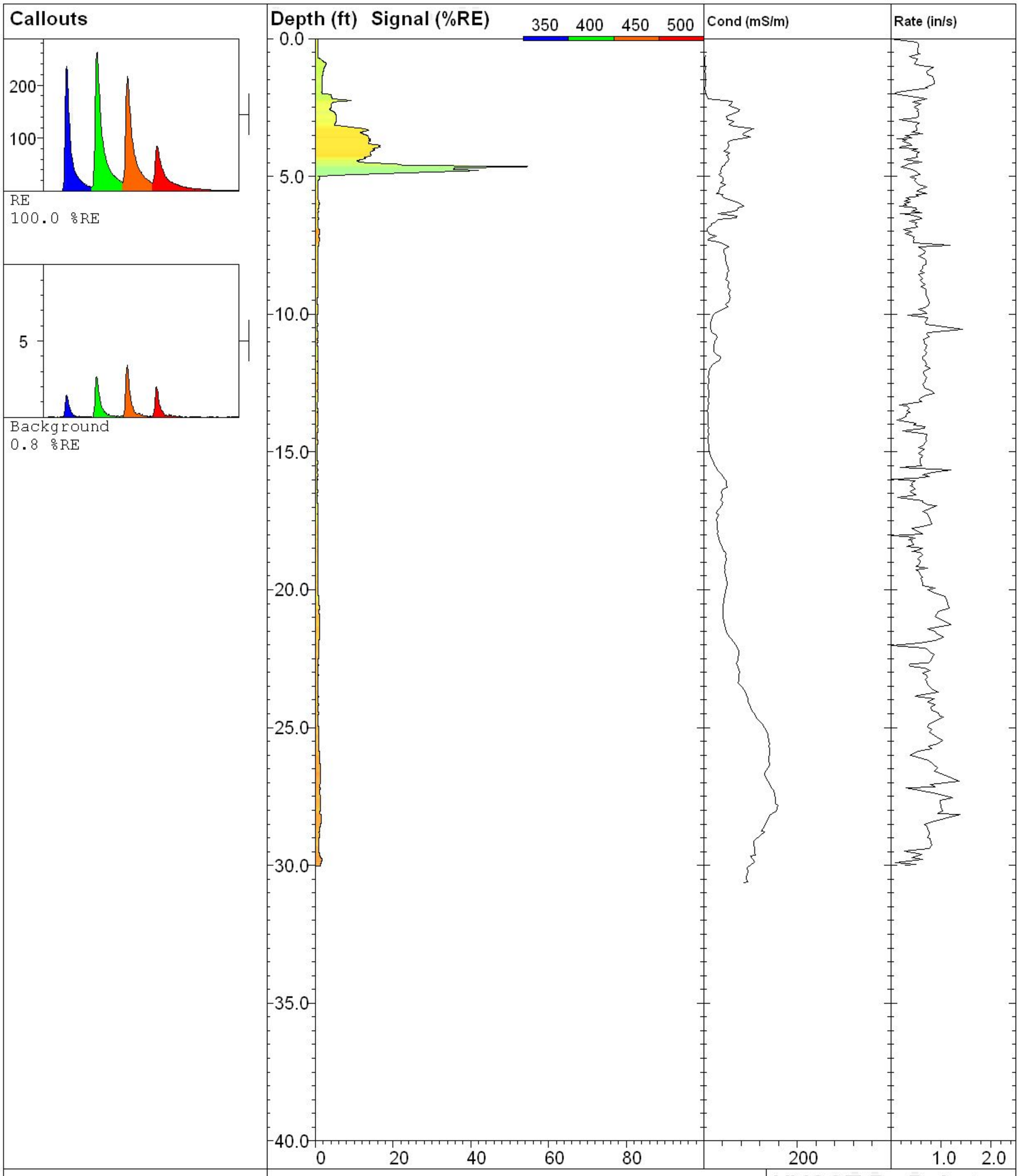


LIF-36-021		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **300.0 % @ 17.65 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-20 09:58 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com



LIF-36-022		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.02 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **54.7 % @ 4.63 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-20 10:58 CDT**

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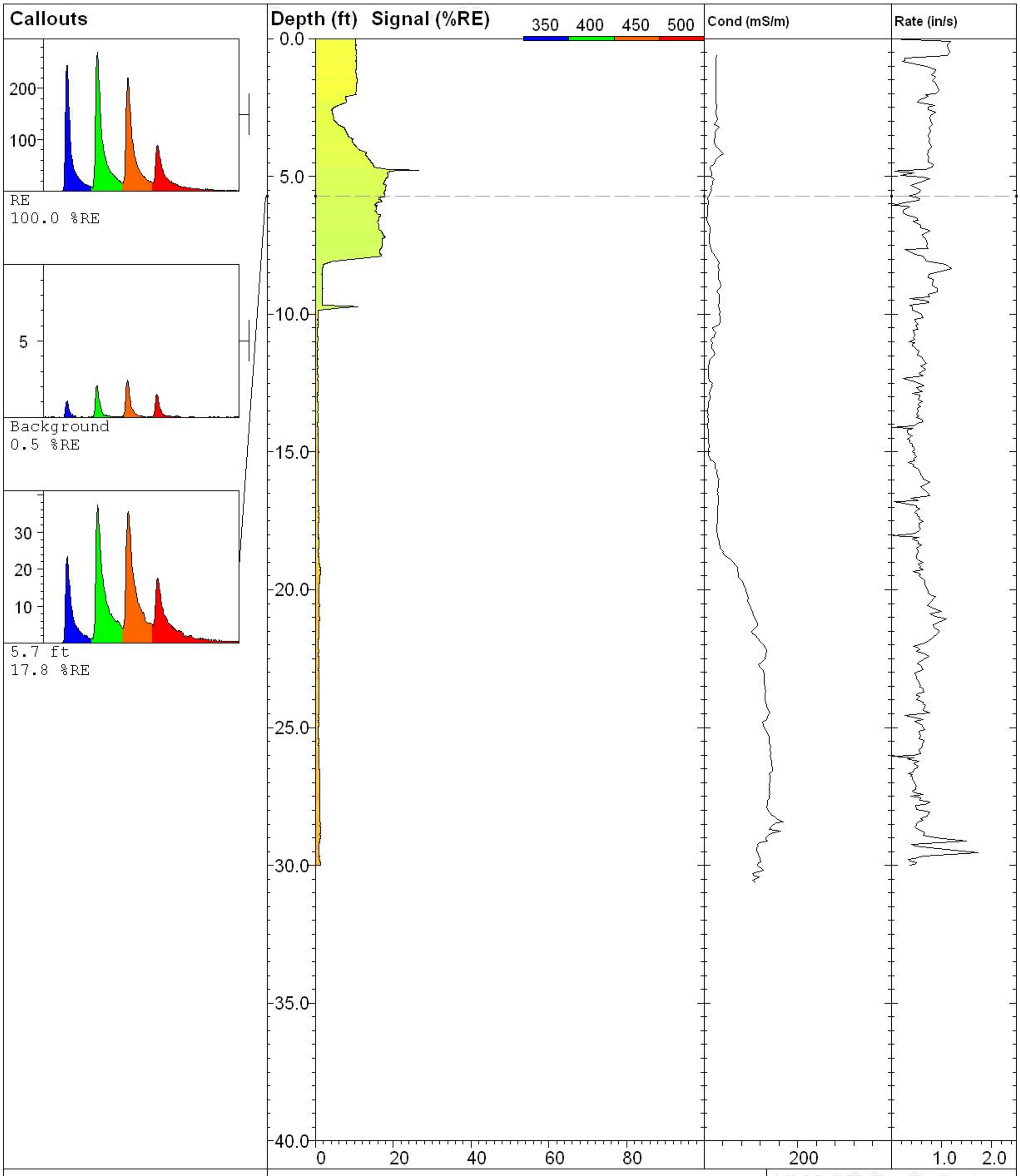
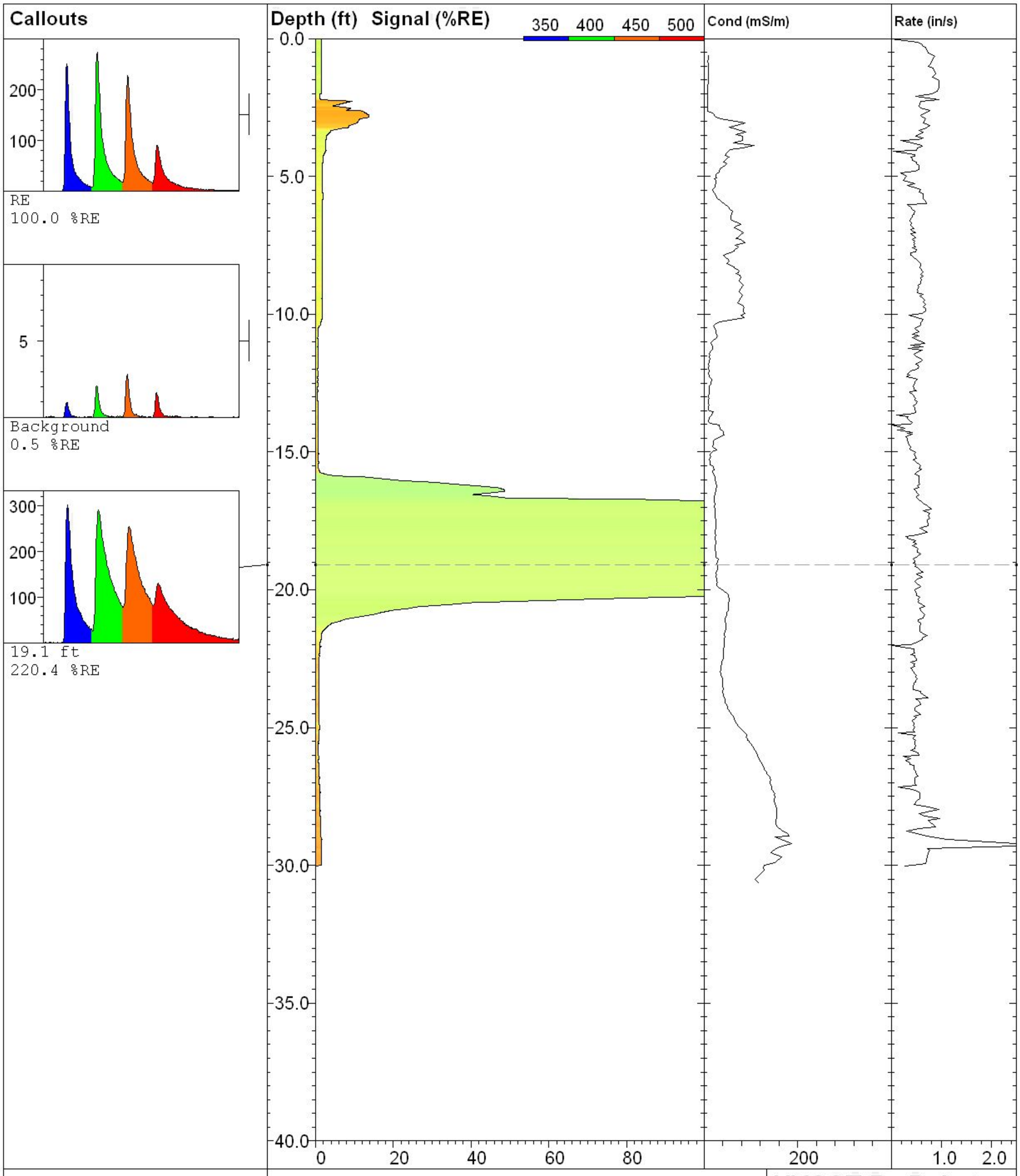
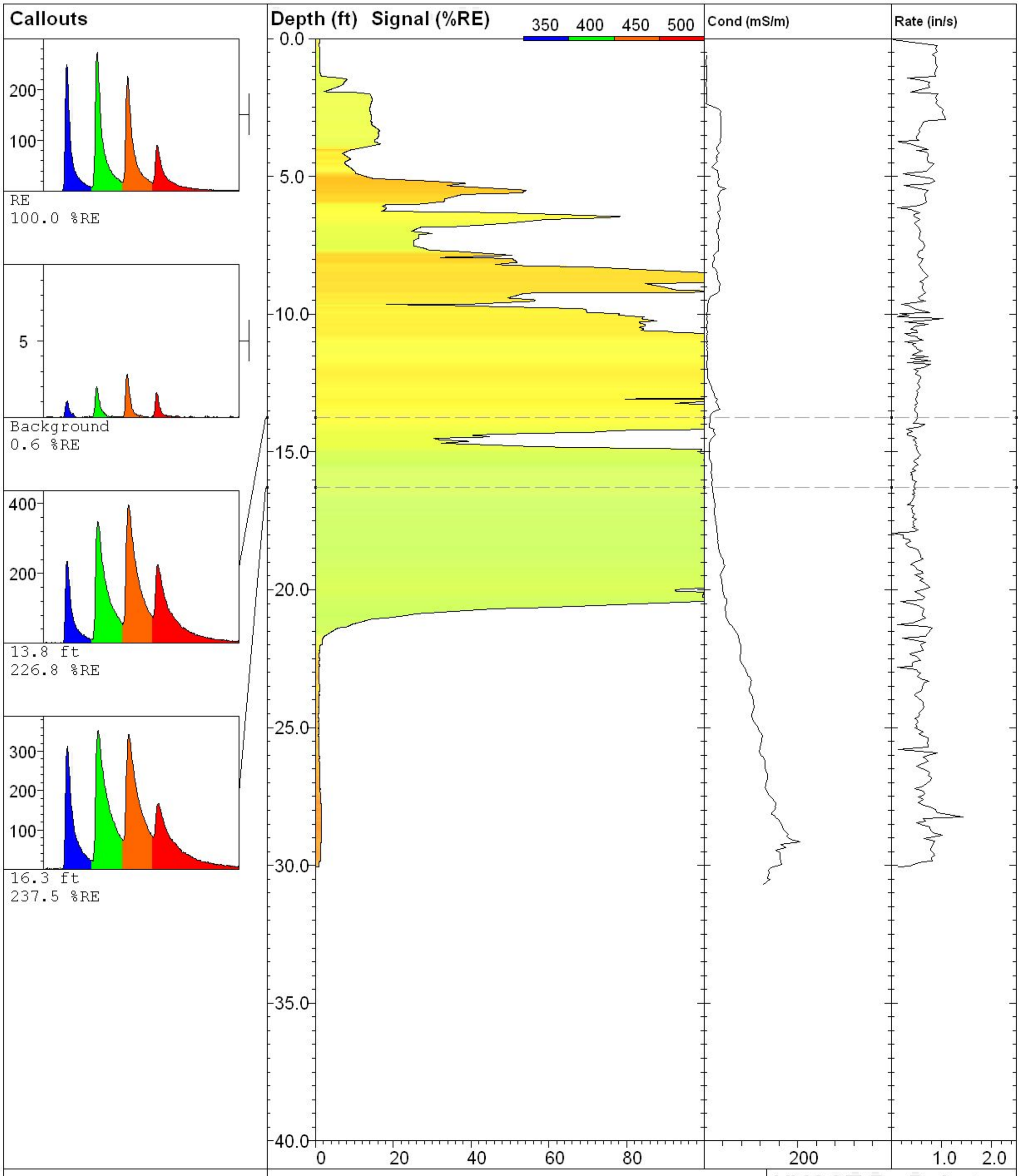


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-023**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **27.0 % @ 4.78 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-20 12:59 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-024**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **225.2 % @ 19.00 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-20 13:42 CDT**



LIF-36-025		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.06 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **259.9 % @ 13.62 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-20 14:25 CDT**

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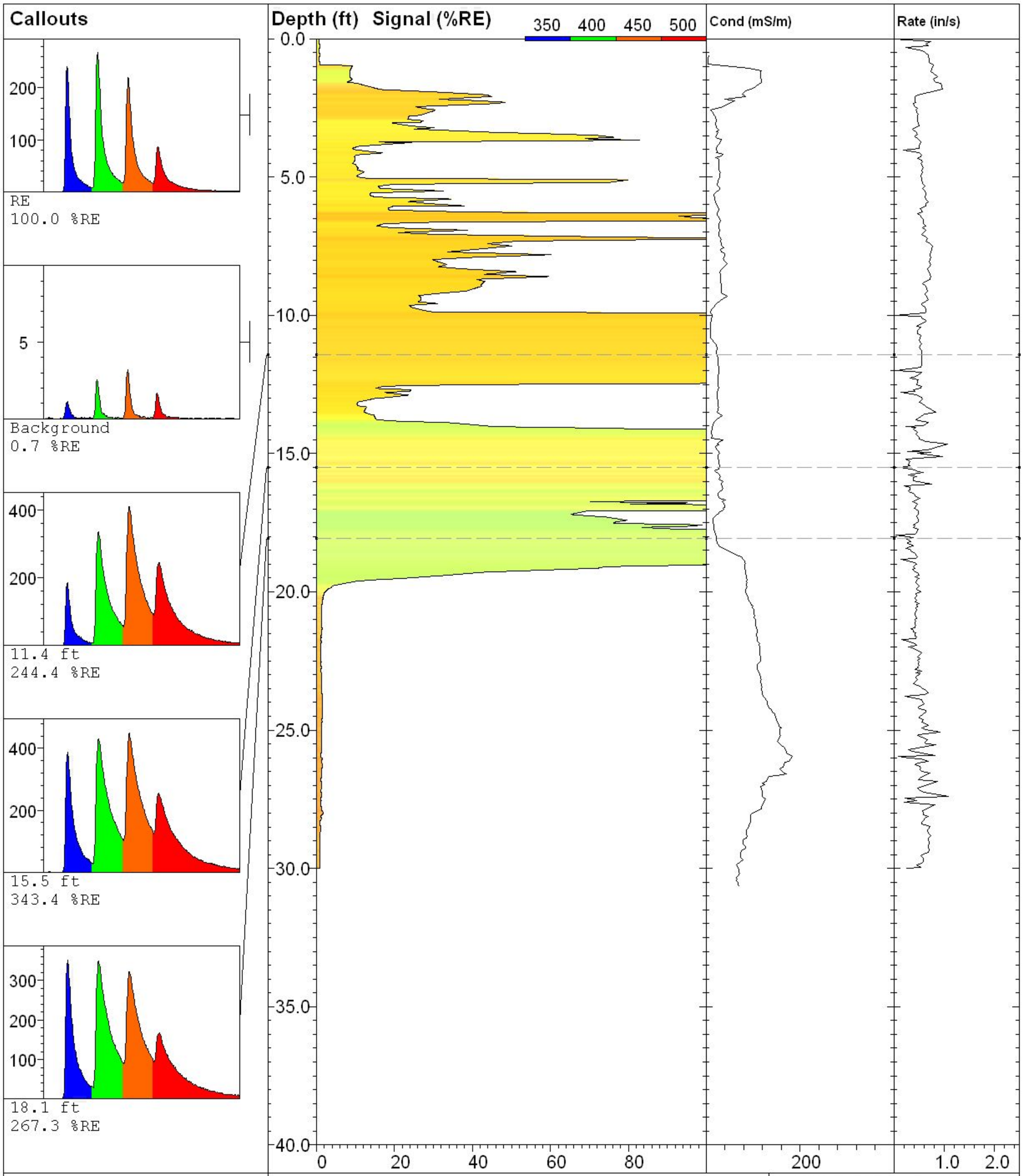

LIF-36-026		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **29.99 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **358.6 % @ 15.27 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-20 15:07 CDT**

MATRIX ENVIRONMENTAL LLC
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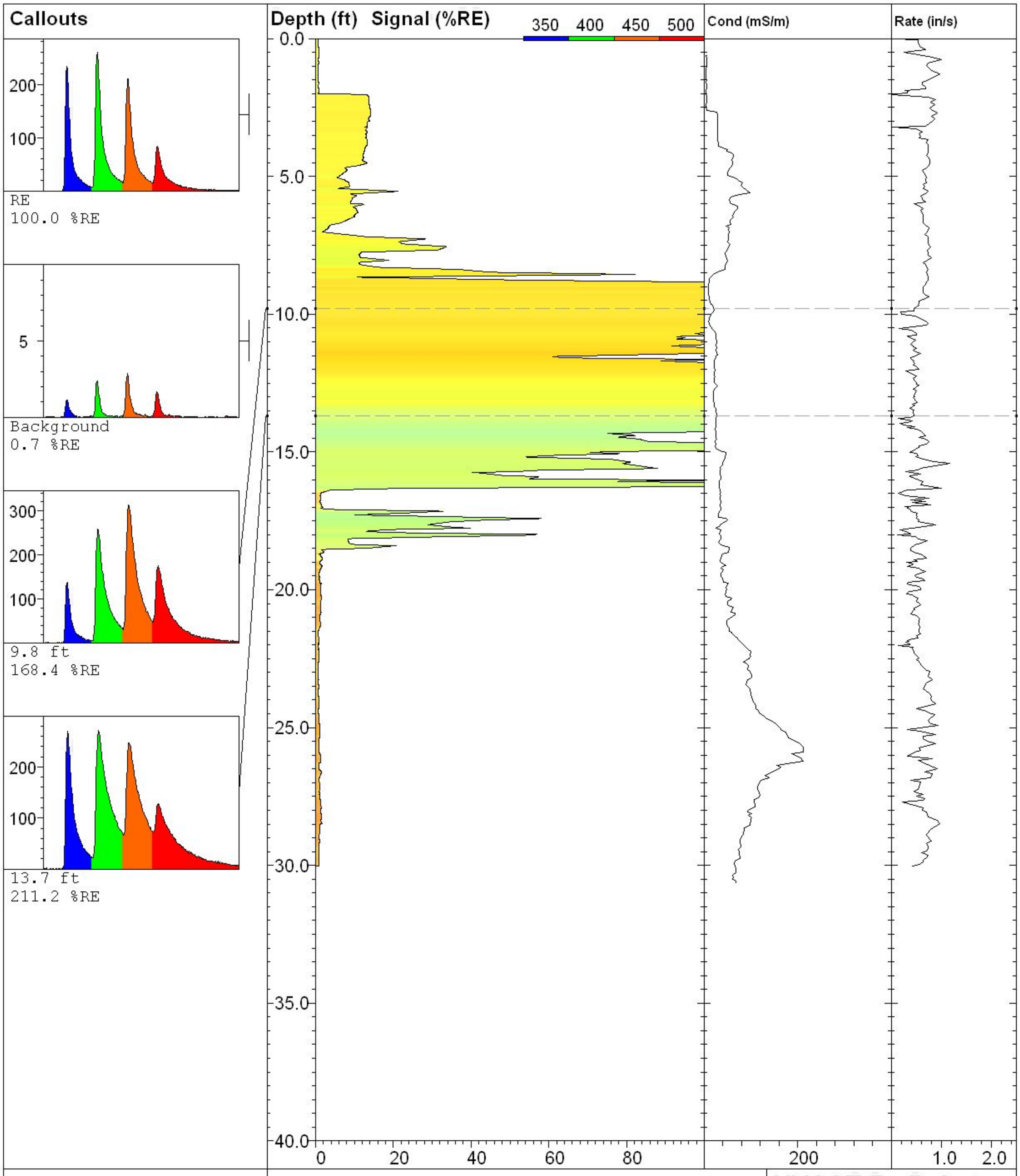
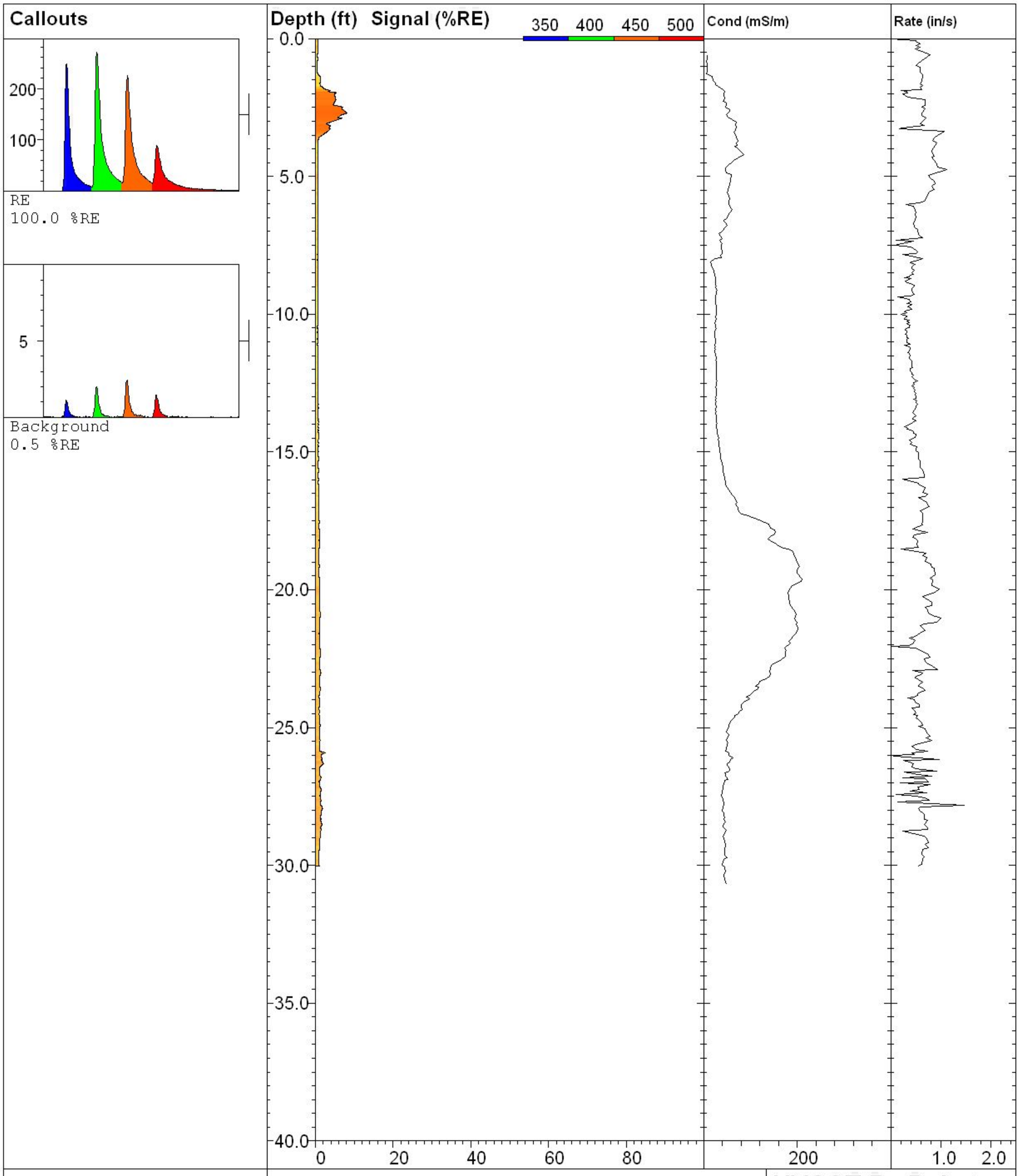
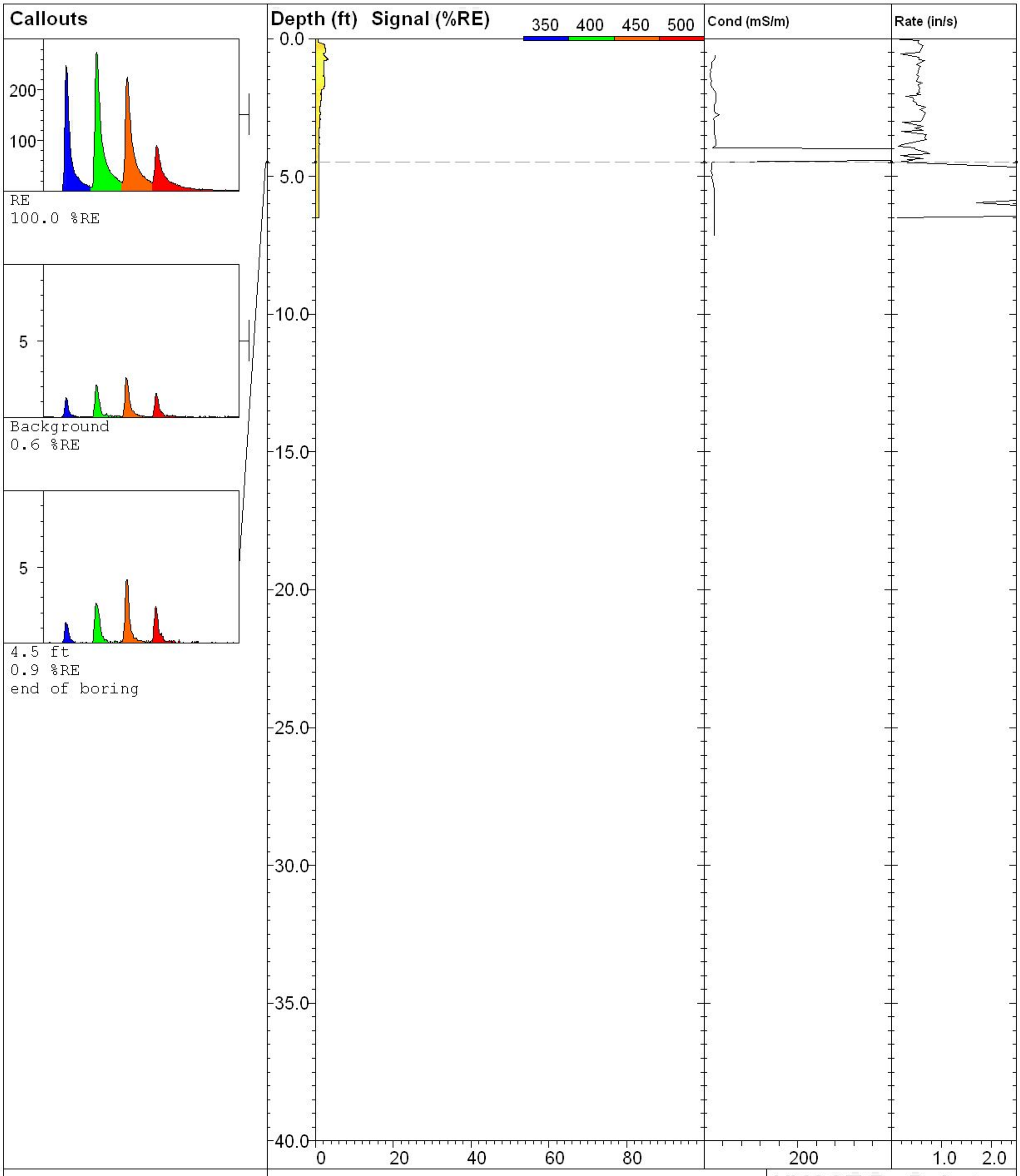


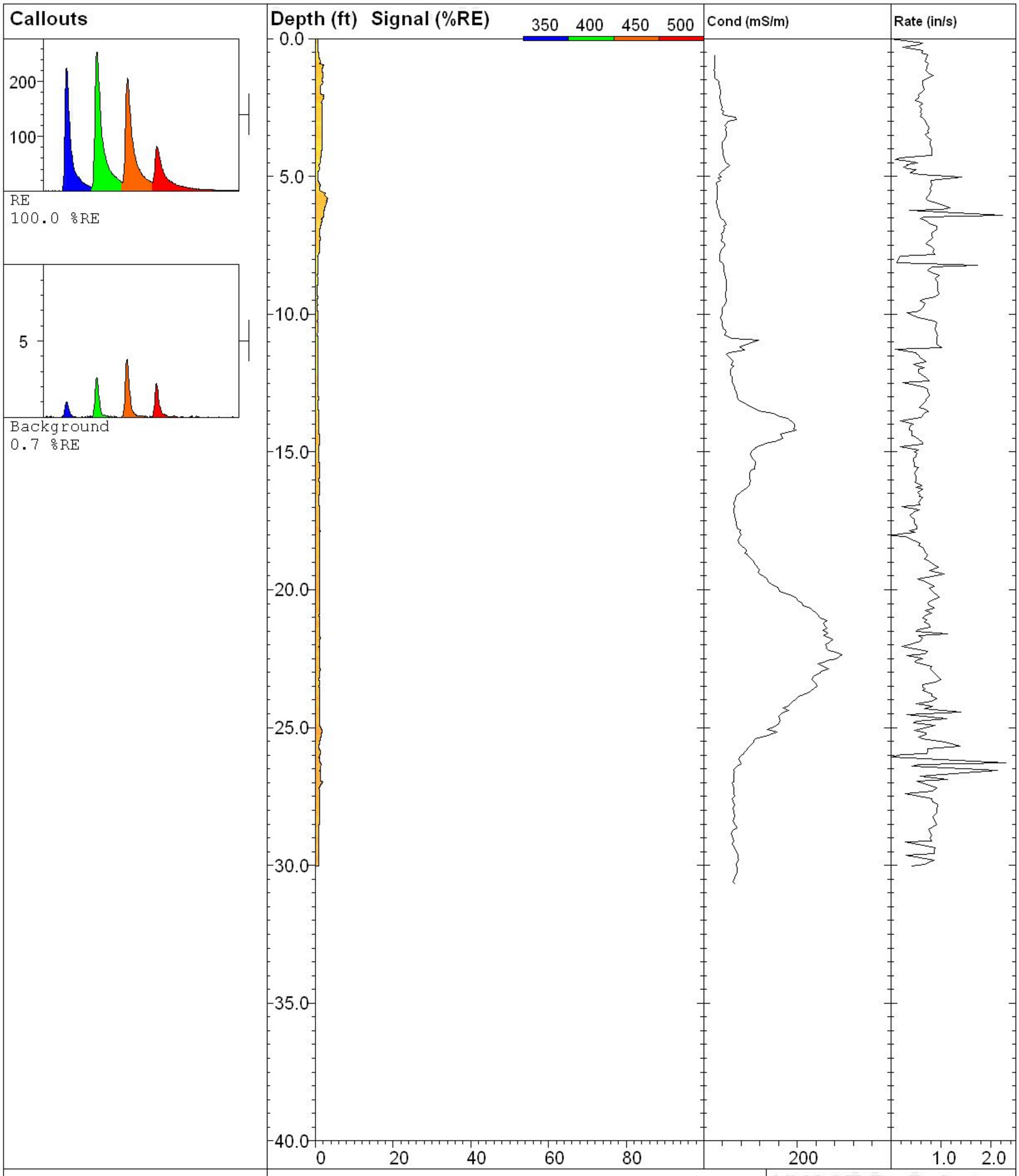
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-027**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **242.5 % @ 12.07 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-20 15:54 CDT**



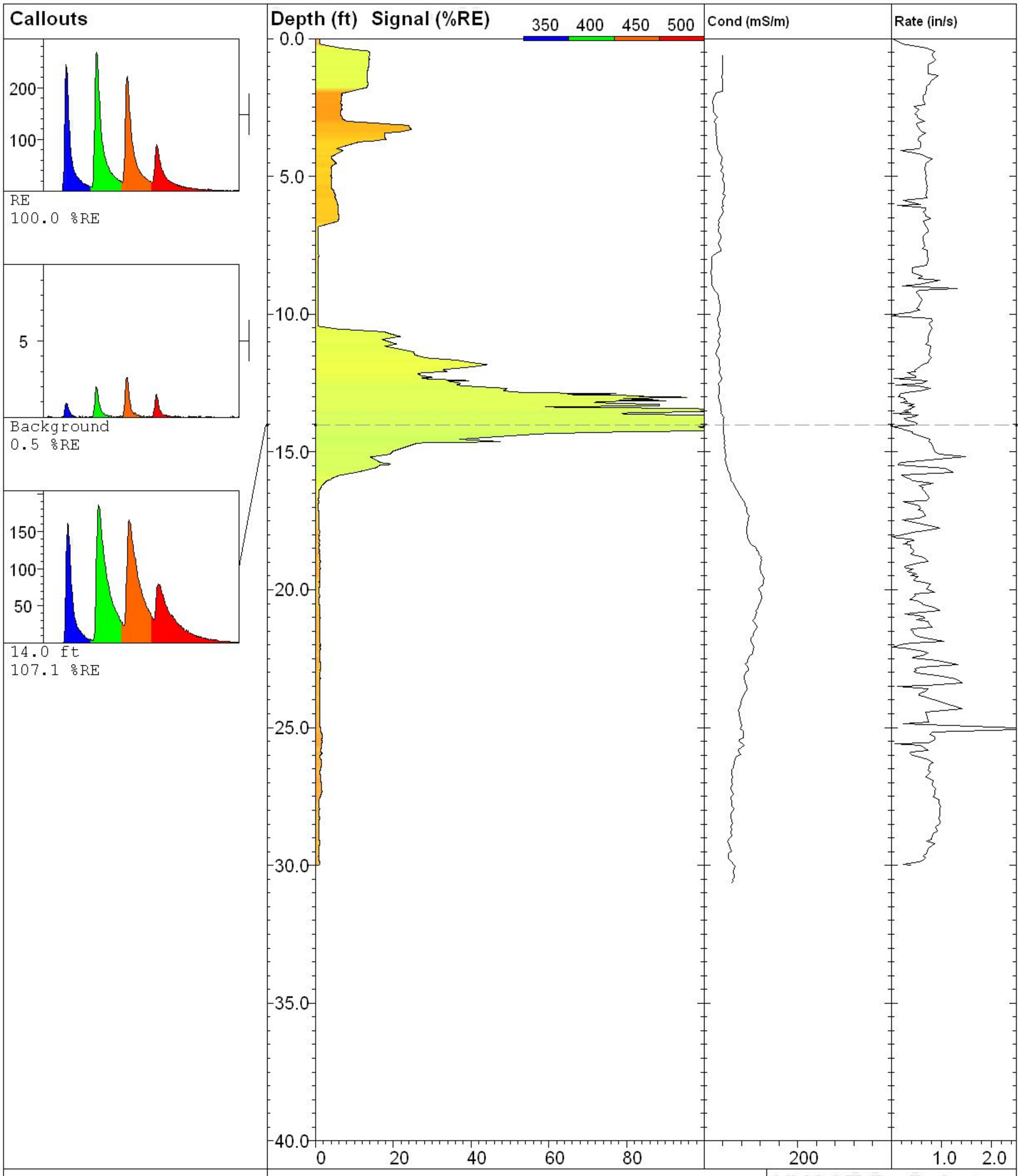
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-028**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.03 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **8.1 % @ 2.71 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-21 07:29 CDT**



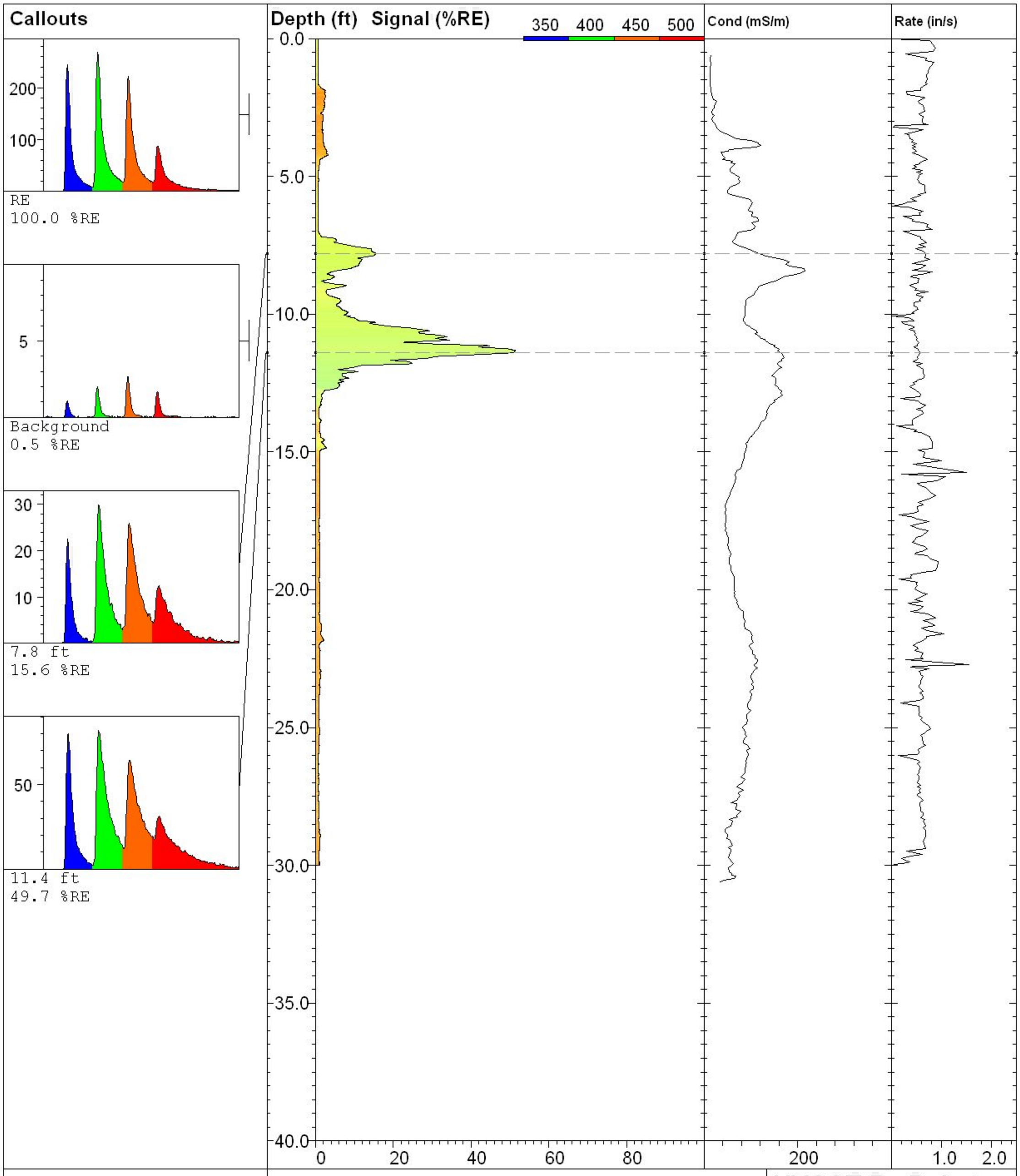
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-029**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **6.51 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **3.2 % @ 0.76 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-21 08:09 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-029A**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.04 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **3.1 % @ 5.80 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-21 15:42 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-030**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **121.5 % @ 13.74 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-21 08:36 CDT**



LIF-36-031		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **51.4 % @ 11.32 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-21 09:22 CDT**

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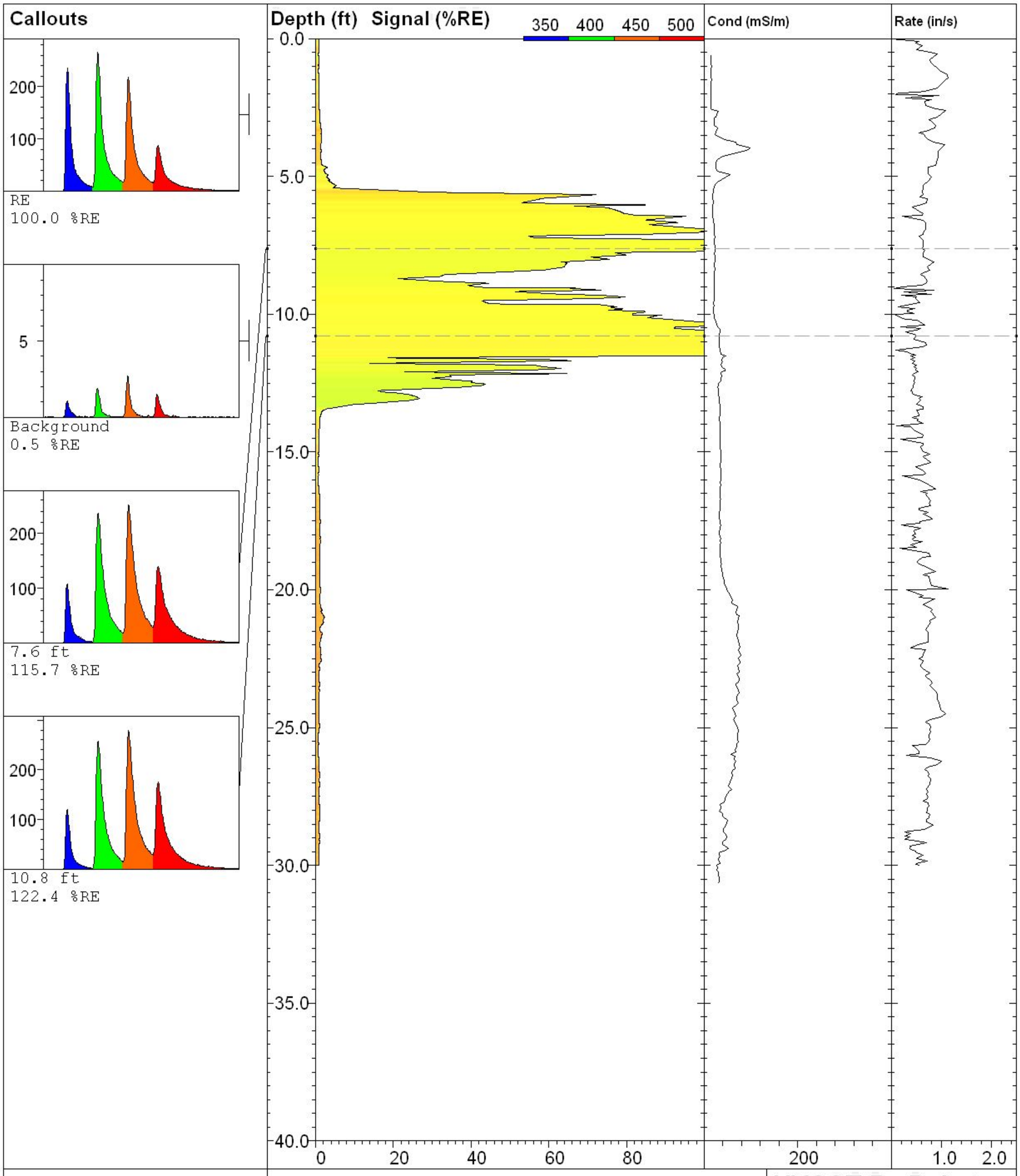
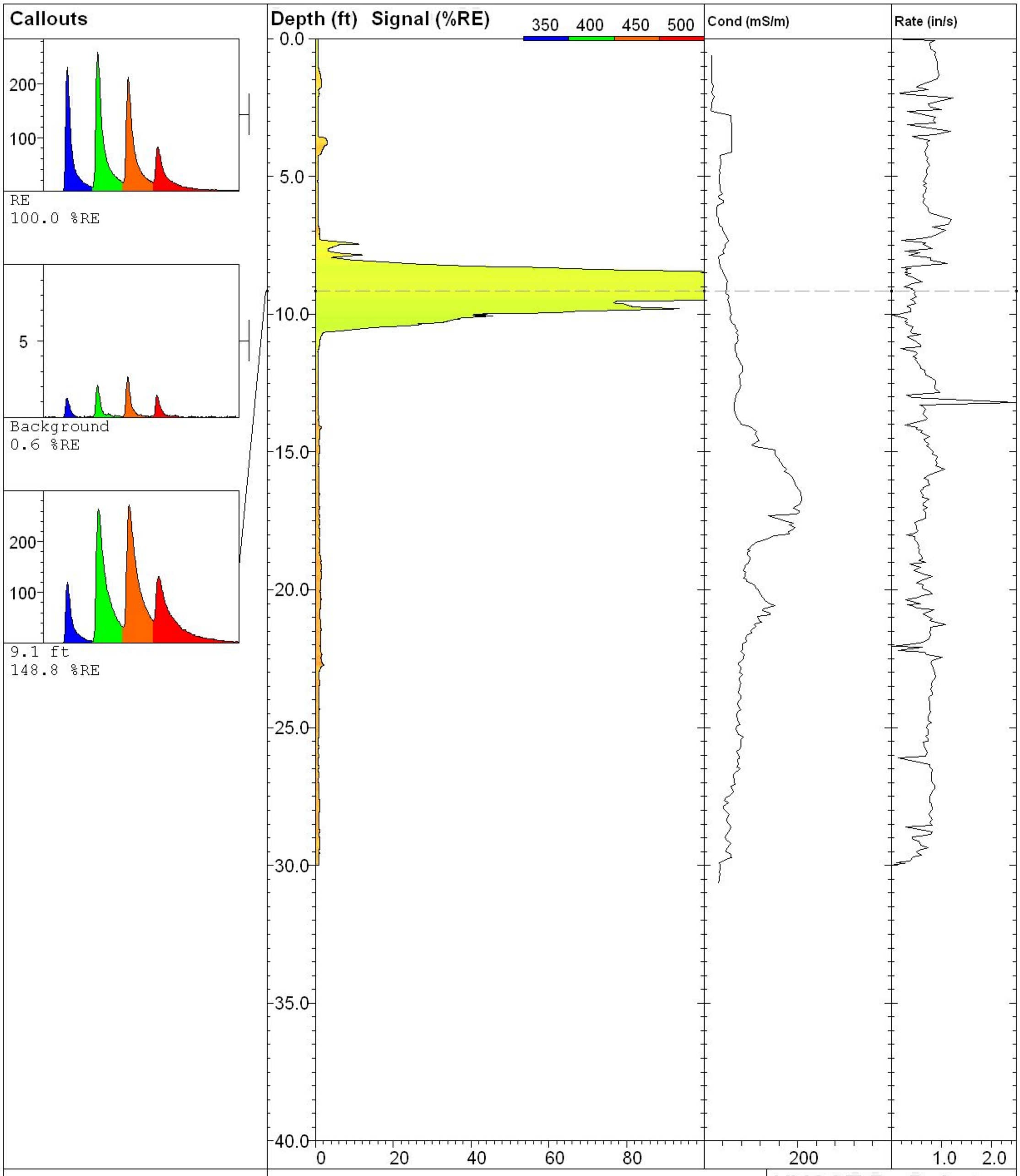
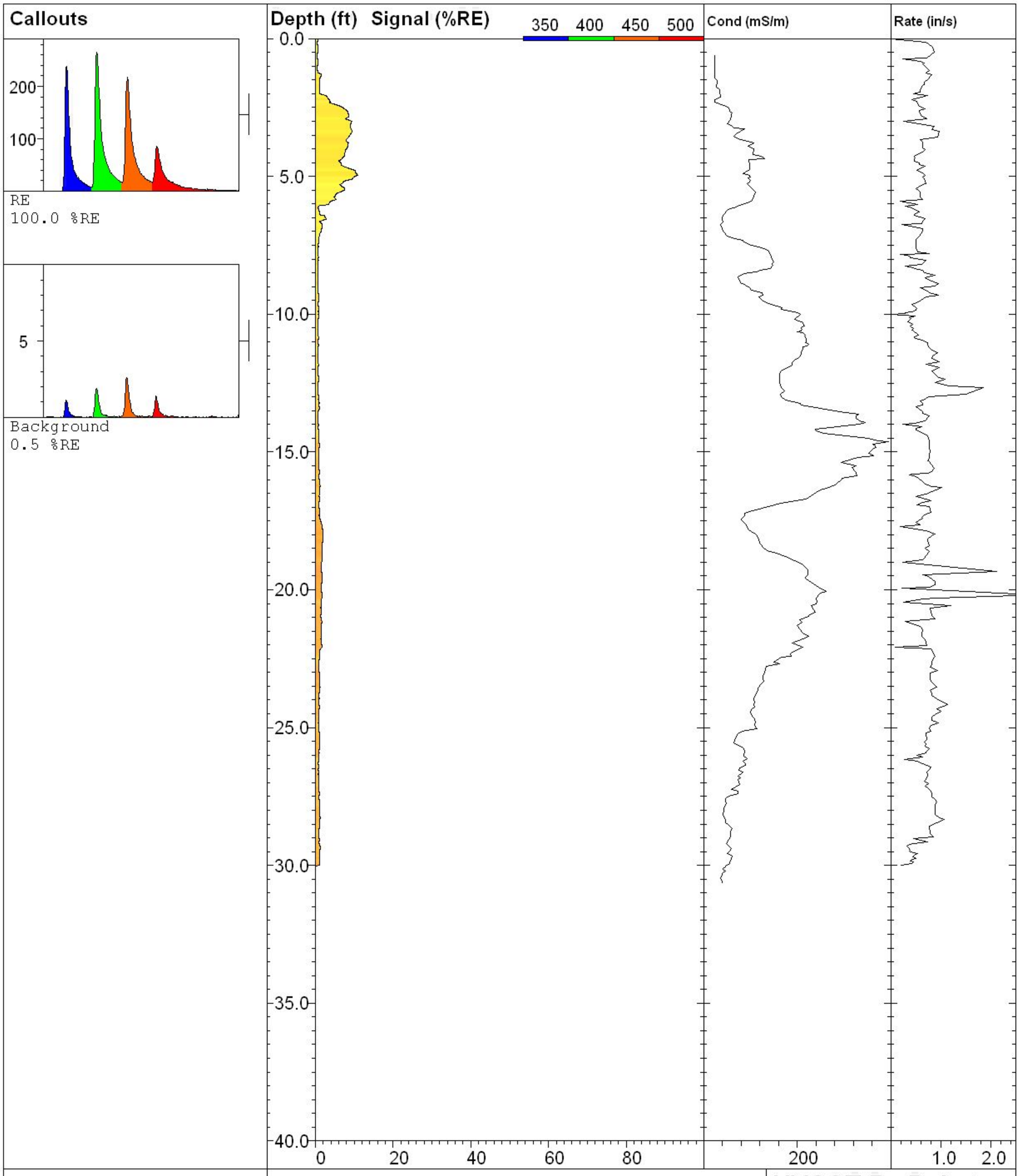


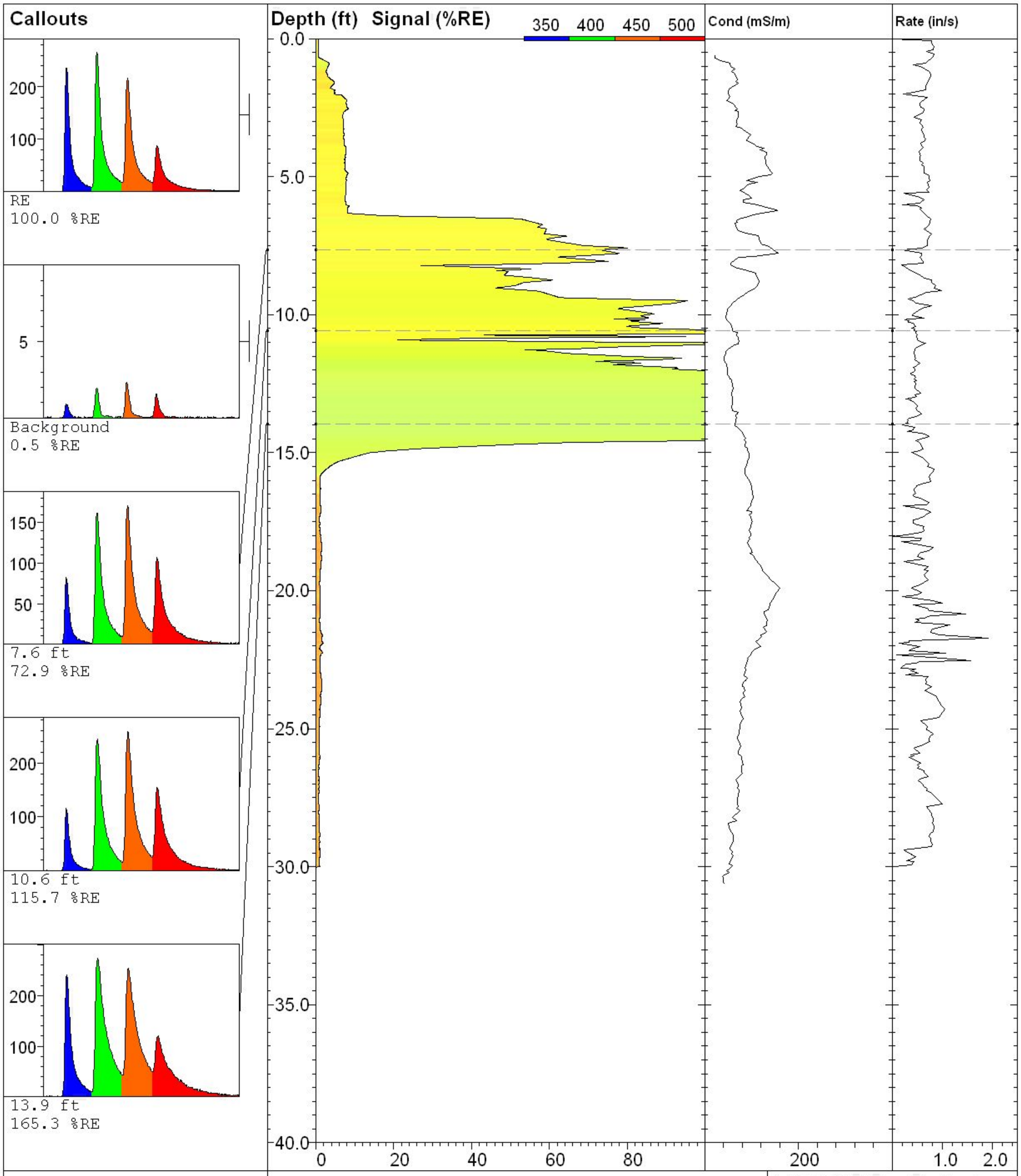
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-032**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **145.6 % @ 11.20 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-21 09:57 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-033**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **148.8 % @ 9.15 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-21 10:57 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-034**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **10.8 % @ 4.95 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-21 12:53 CDT**



LIF-36-035		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **182.8 % @ 13.92 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-21 13:36 CDT**

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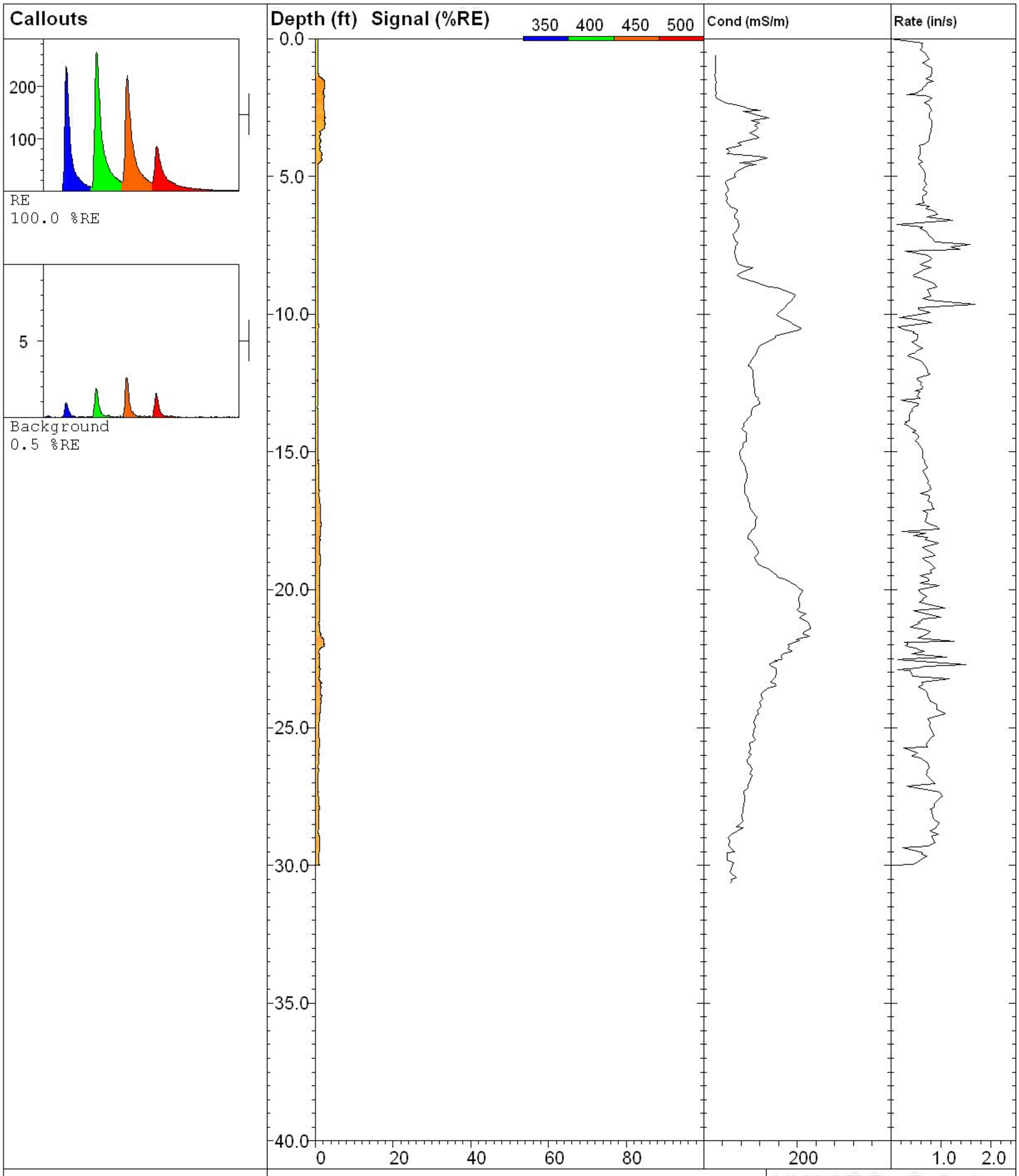
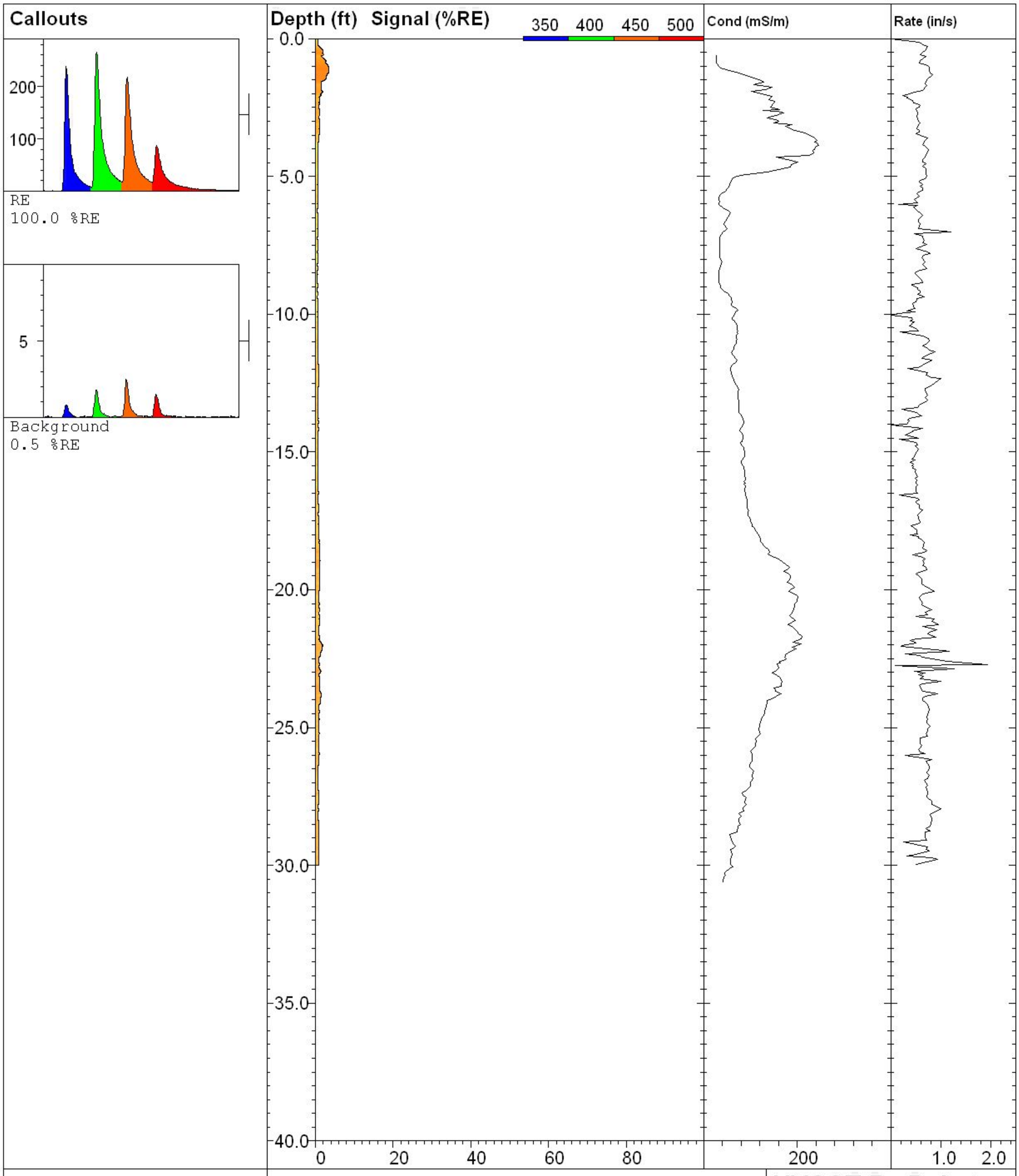
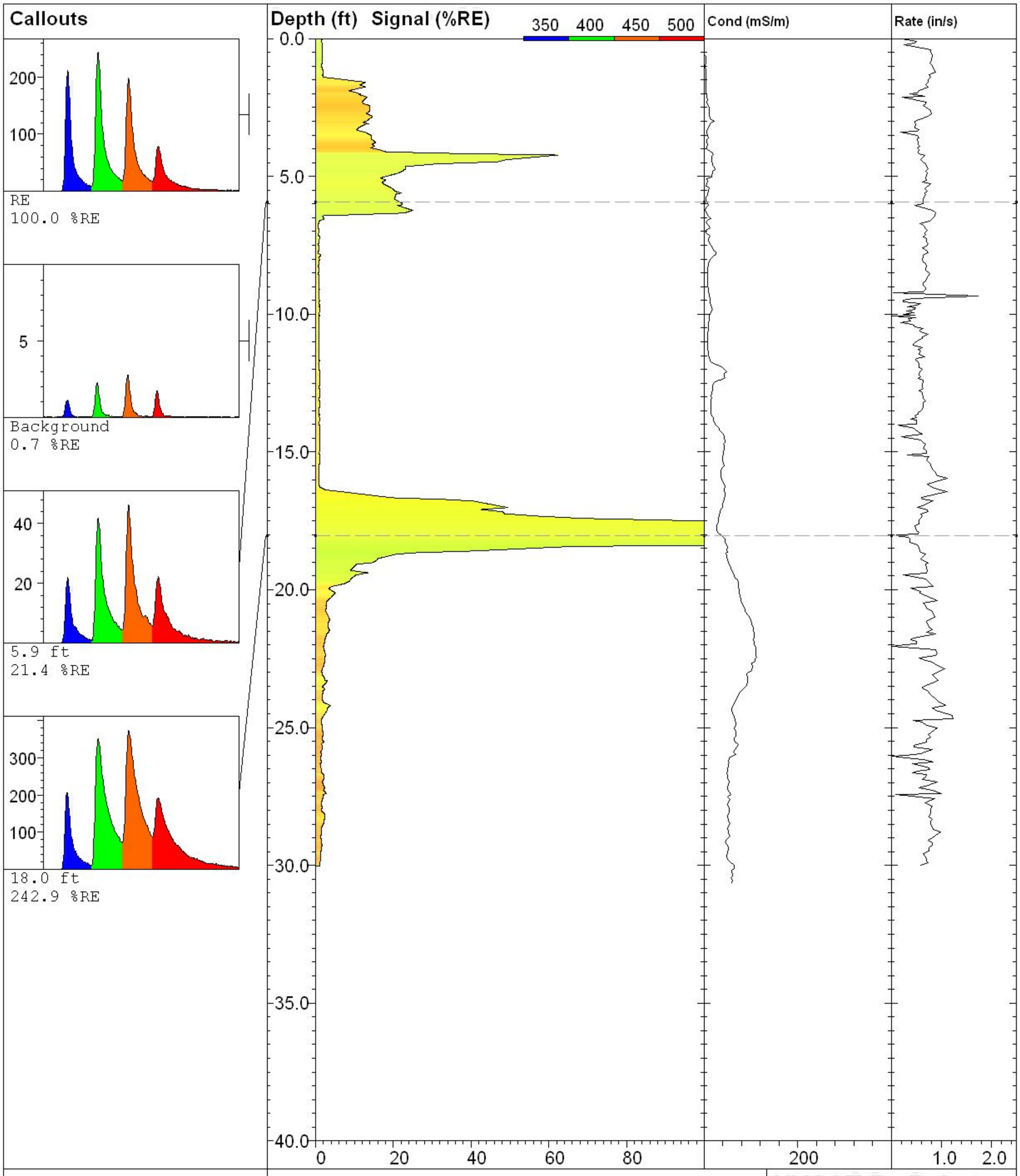


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-036**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **2.5 % @ 3.08 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-21 14:21 CDT**

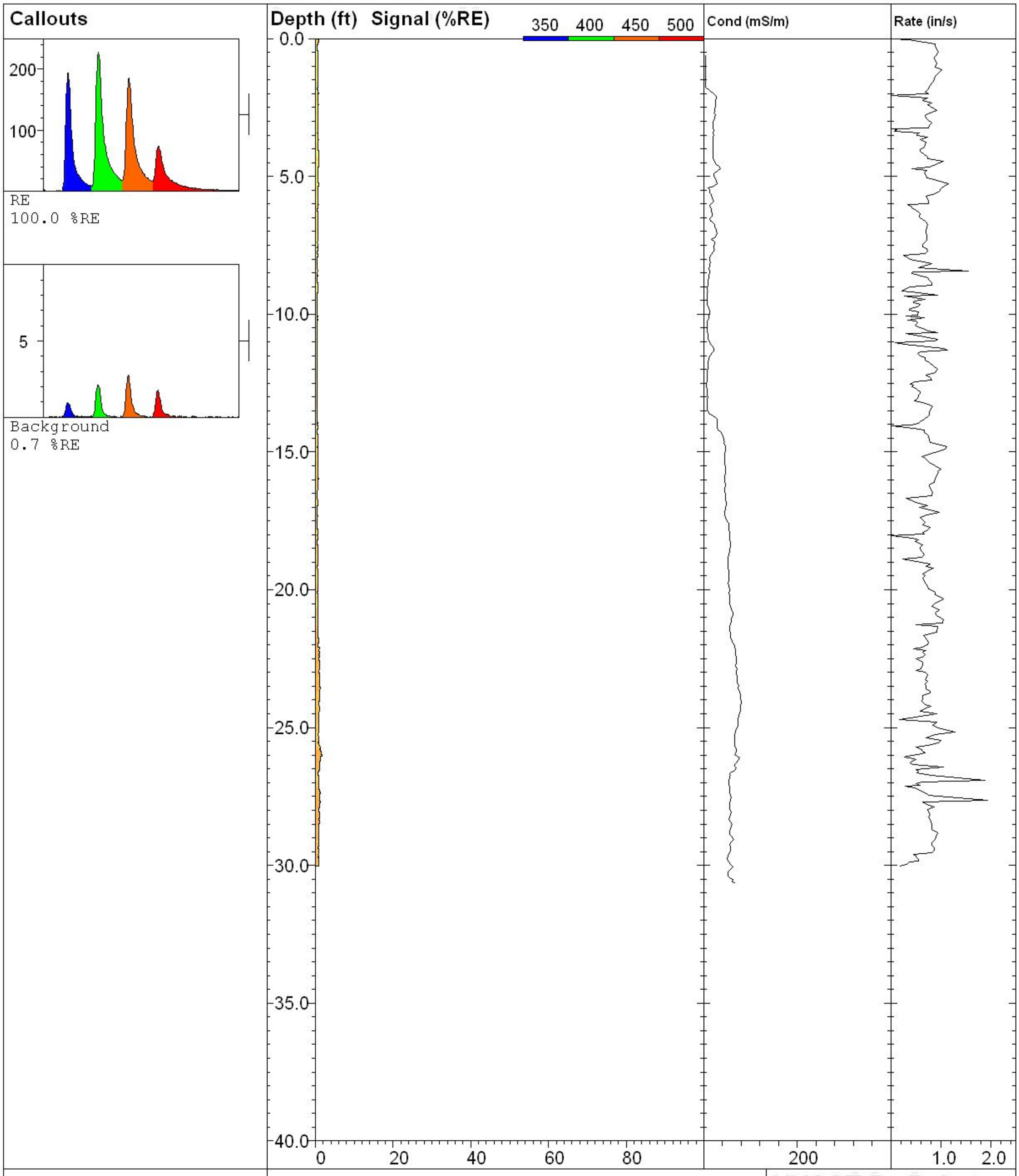


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-037**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **3.4 % @ 1.24 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-21 14:55 CDT**

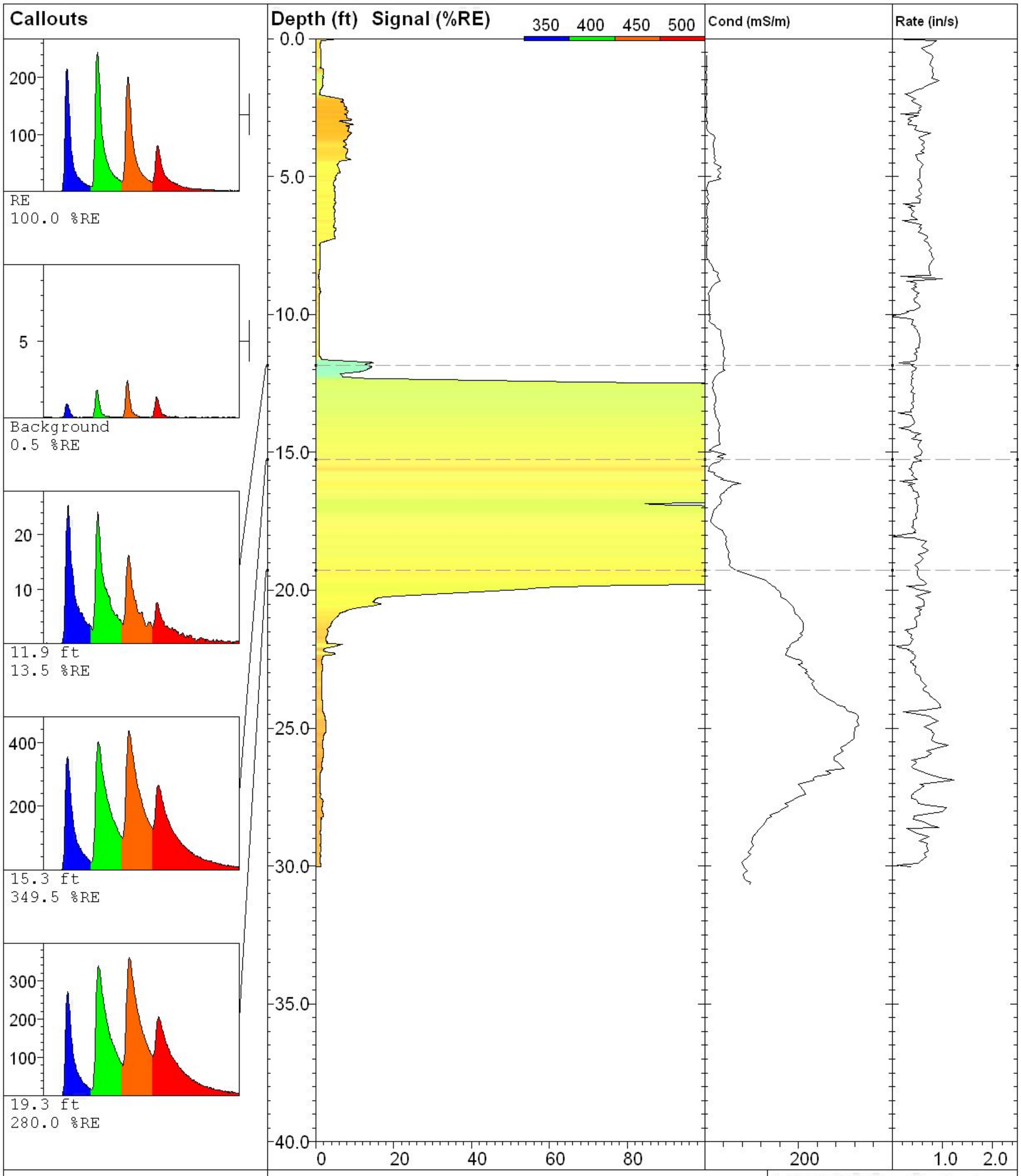


LIF-36-038		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.02 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **242.9 % @ 18.04 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-24 10:56 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

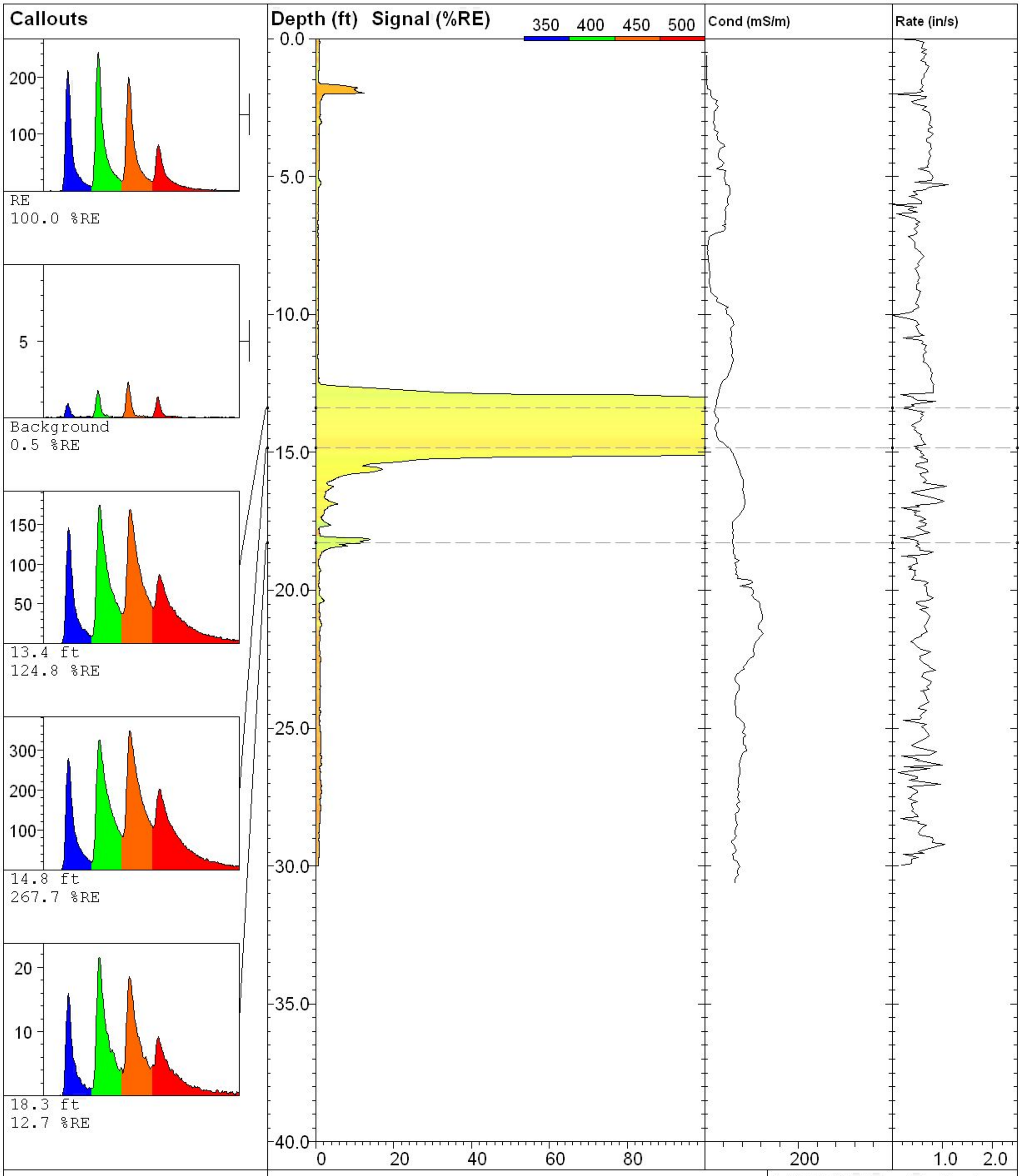


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-039**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.02 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.7 % @ 26.03 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-24 10:10 CDT**



LIF-36-040		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.03 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **433.1 % @ 15.64 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-24 12:34 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

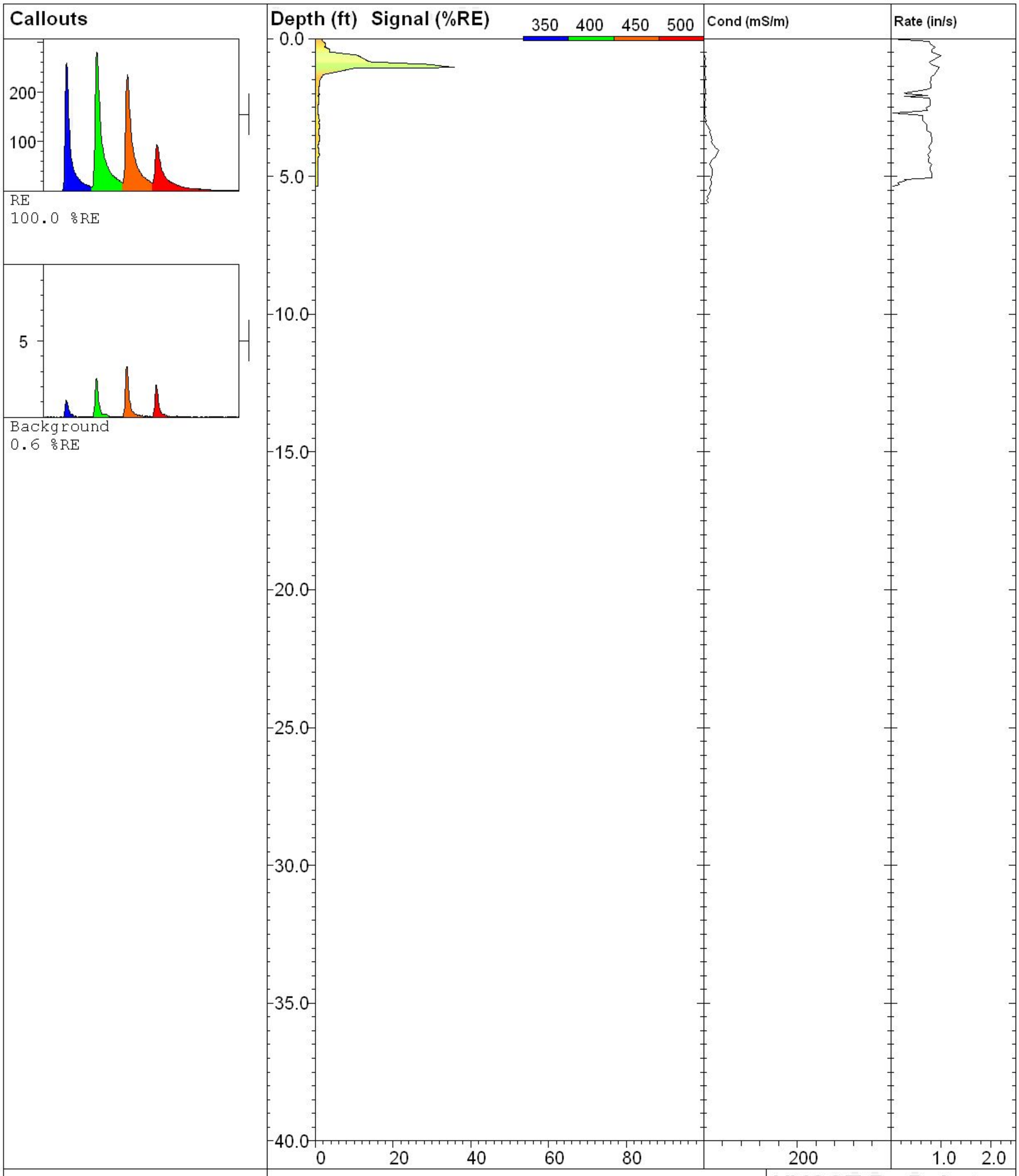


LIF-36-041

UVOST By Dakota
www.DakotaTechnologies.com

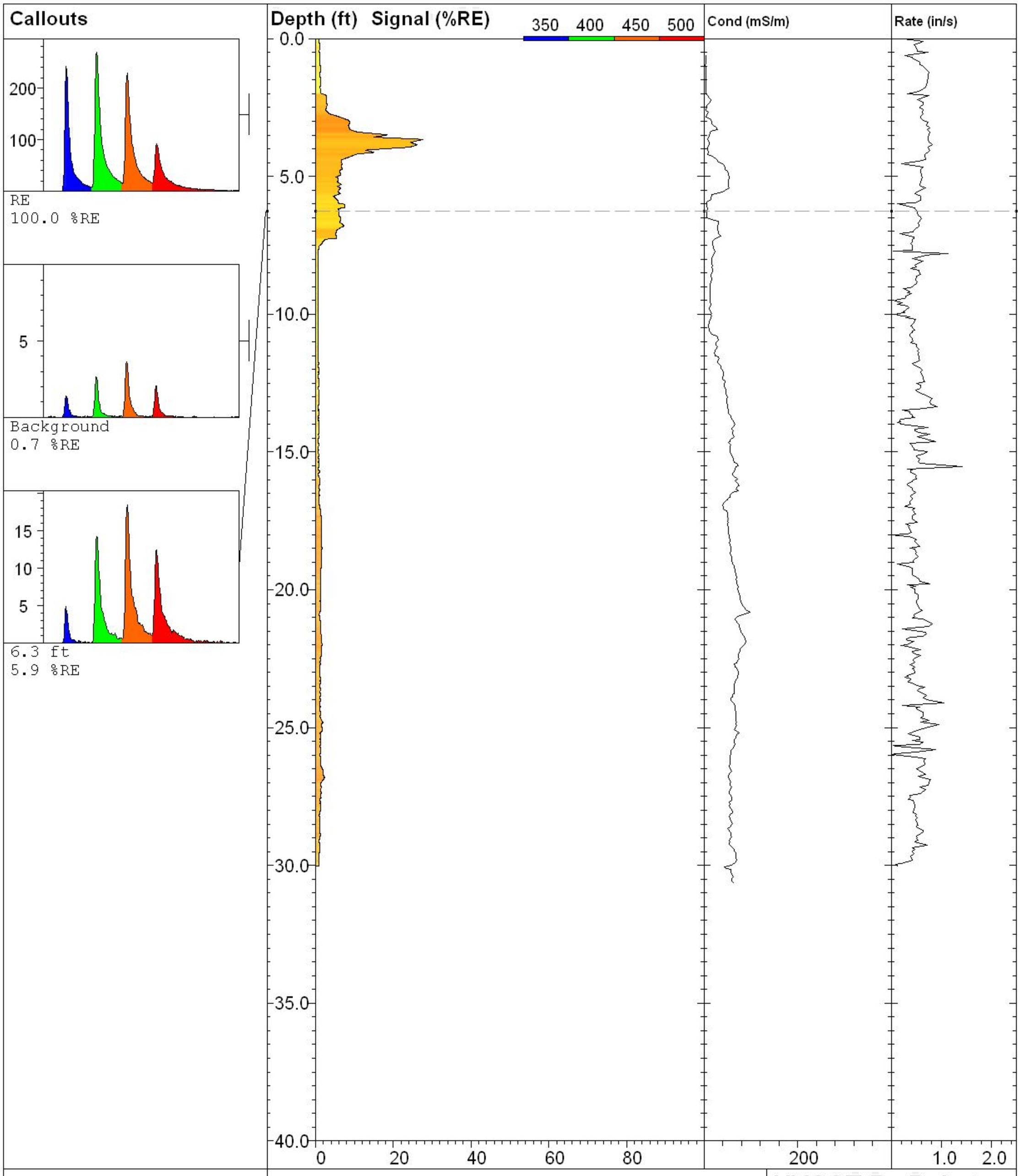
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **314.8 % @ 14.77 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-24 14:35 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

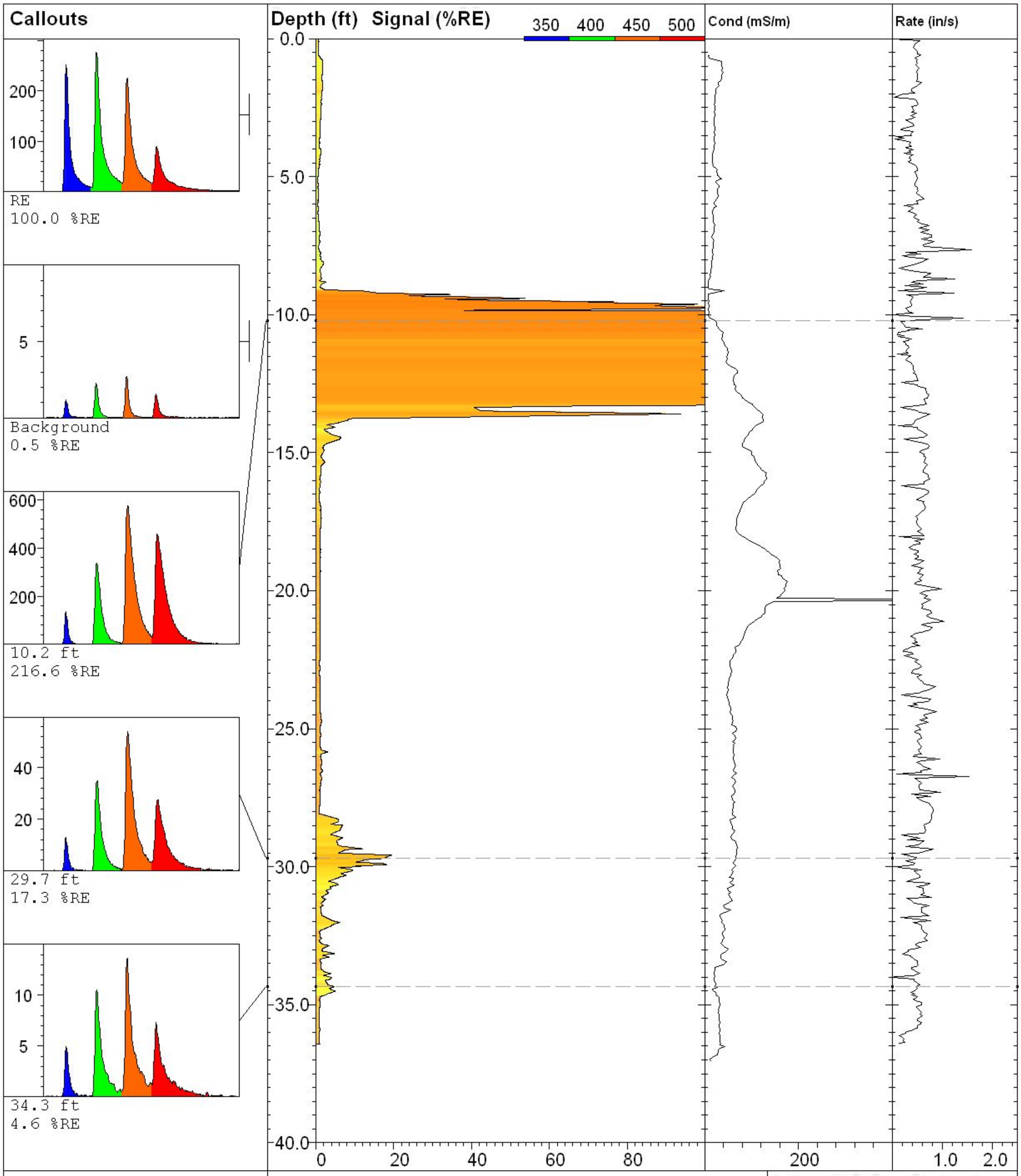


LIF-36-042		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **5.36 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **36.0 % @ 1.05 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-25 07:29 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-043**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.02 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **27.6 % @ 3.66 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-25 07:59 CDT**



LIF-36-044		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **36.43 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **236.3 % @ 10.59 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-25 08:49 CDT**

MATRIX ENVIRONMENTAL LLC
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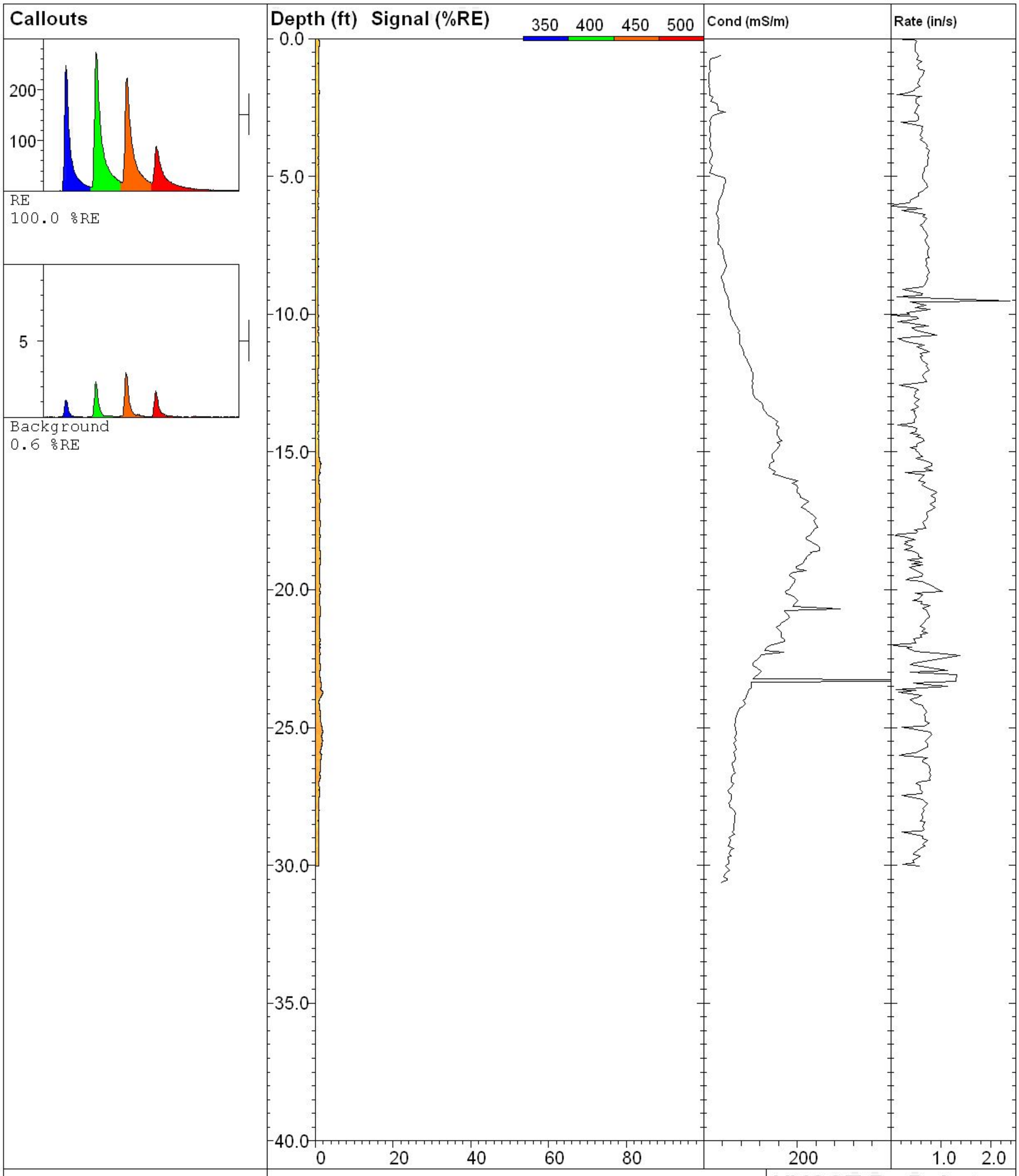
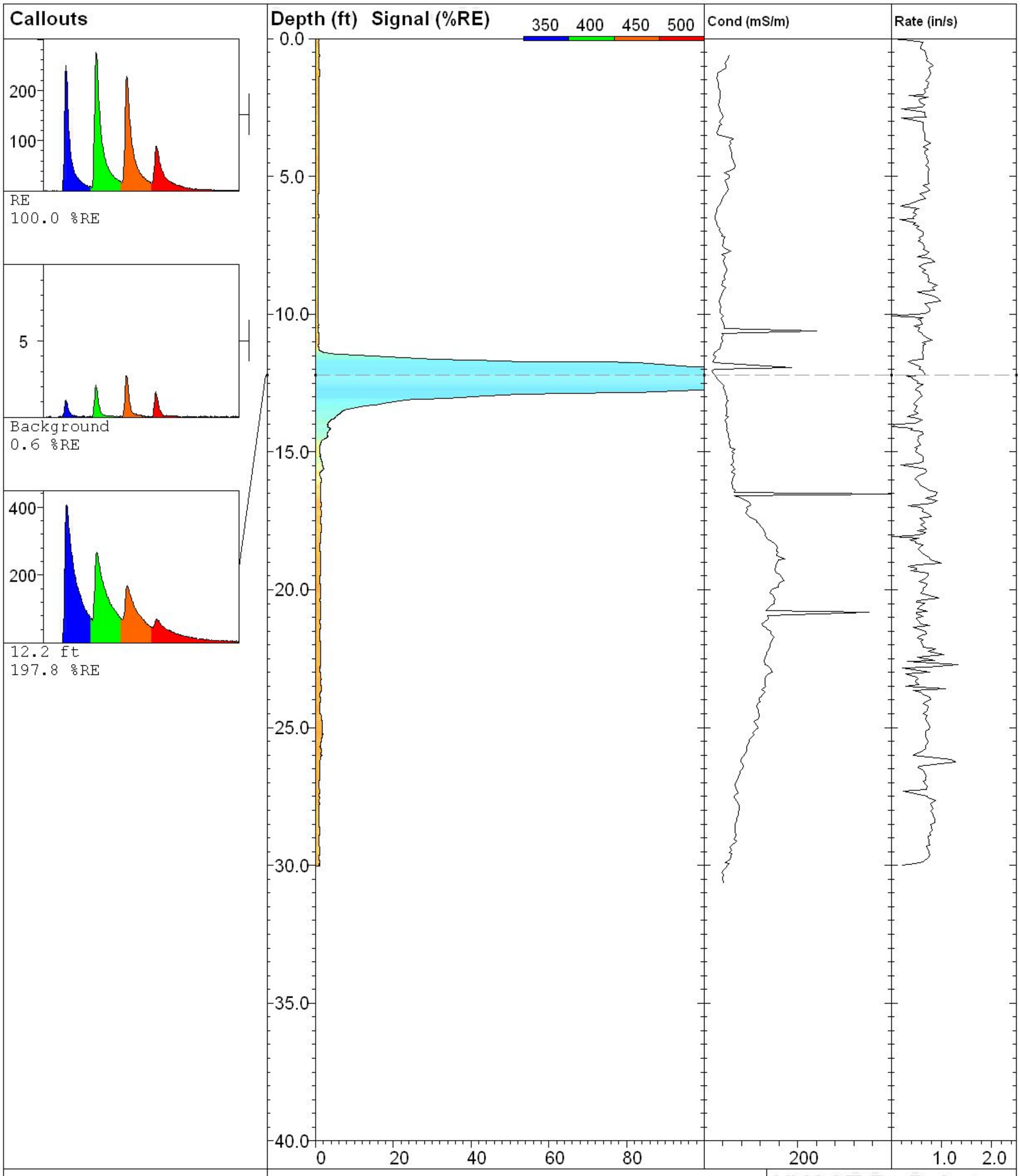
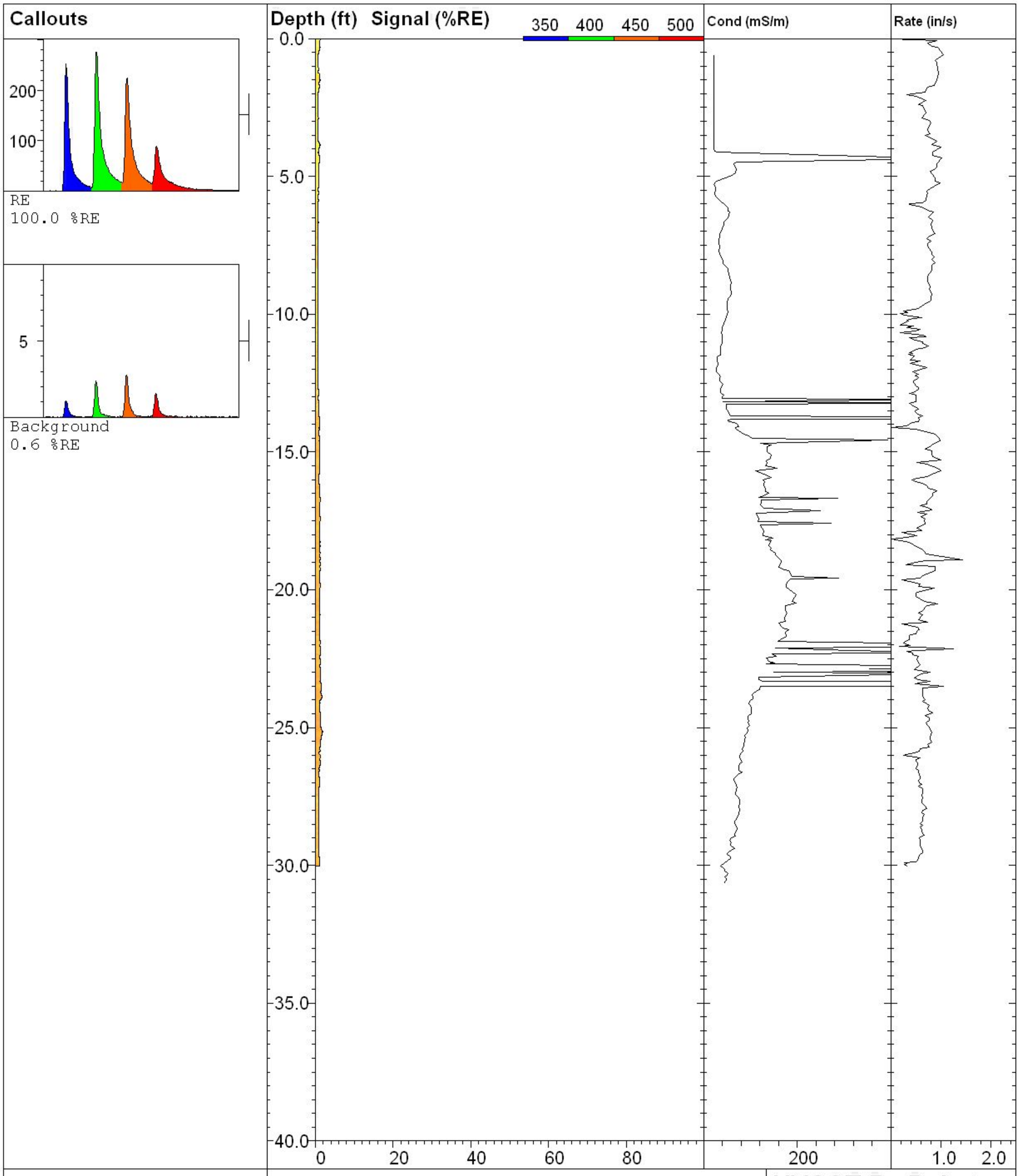


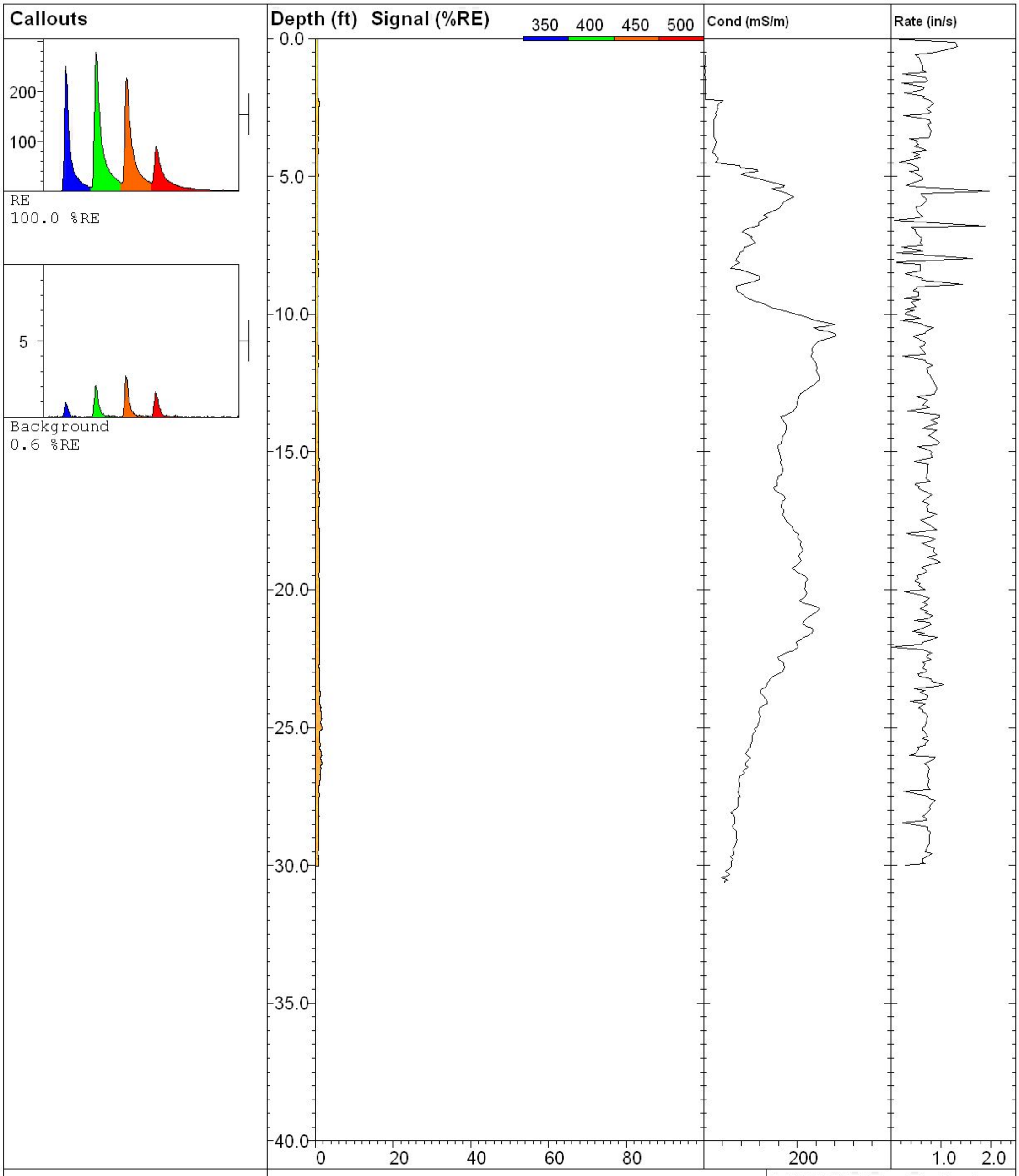
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-045**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.02 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **2.0 % @ 23.70 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-25 09:40 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-046**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.03 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **257.1 % @ 12.33 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-25 10:15 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-047**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.02 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.8 % @ 25.15 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-25 12:36 CDT**



LIF-36-048		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.03 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.7 % @ 26.31 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-25 13:27 CDT**

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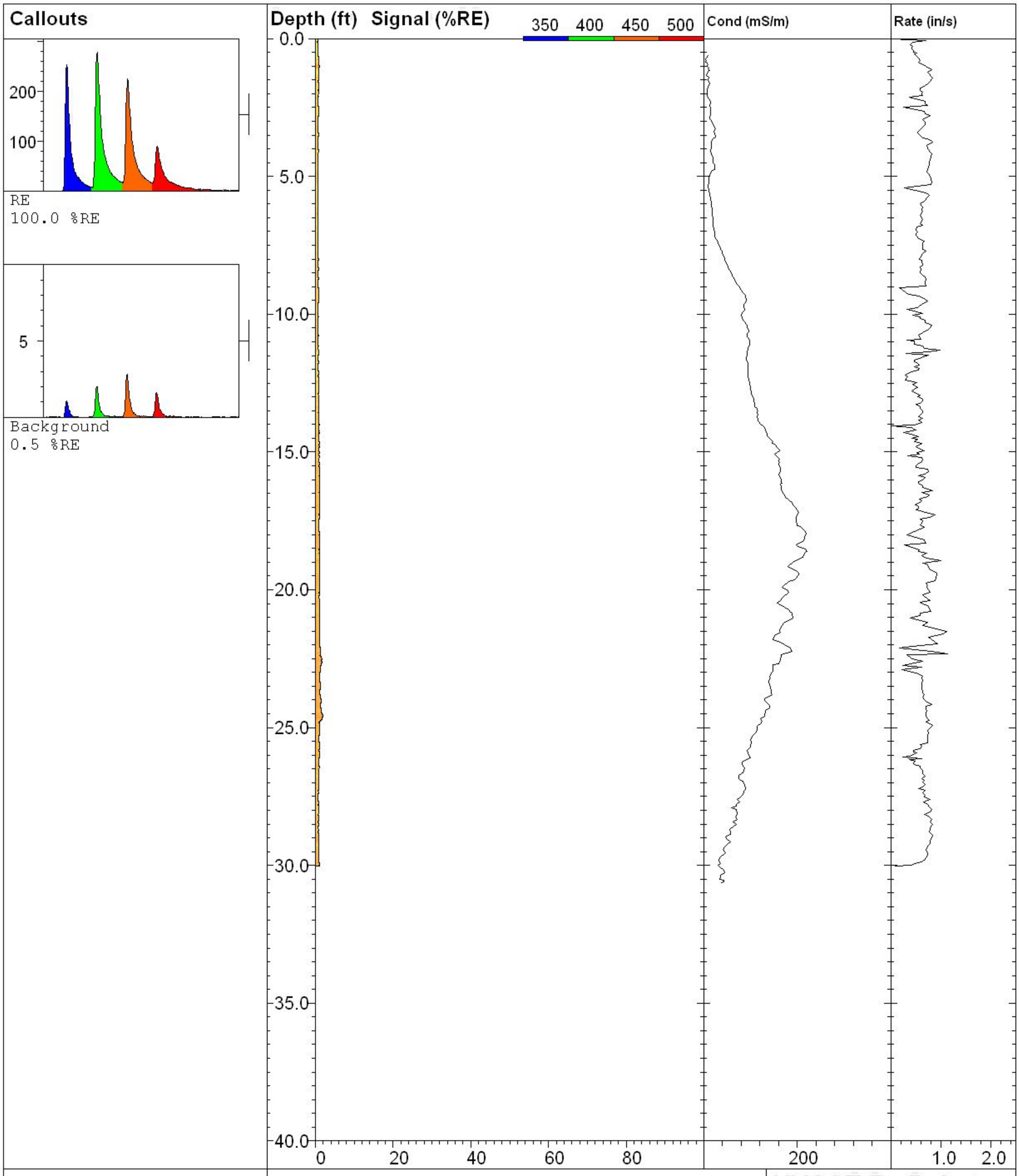
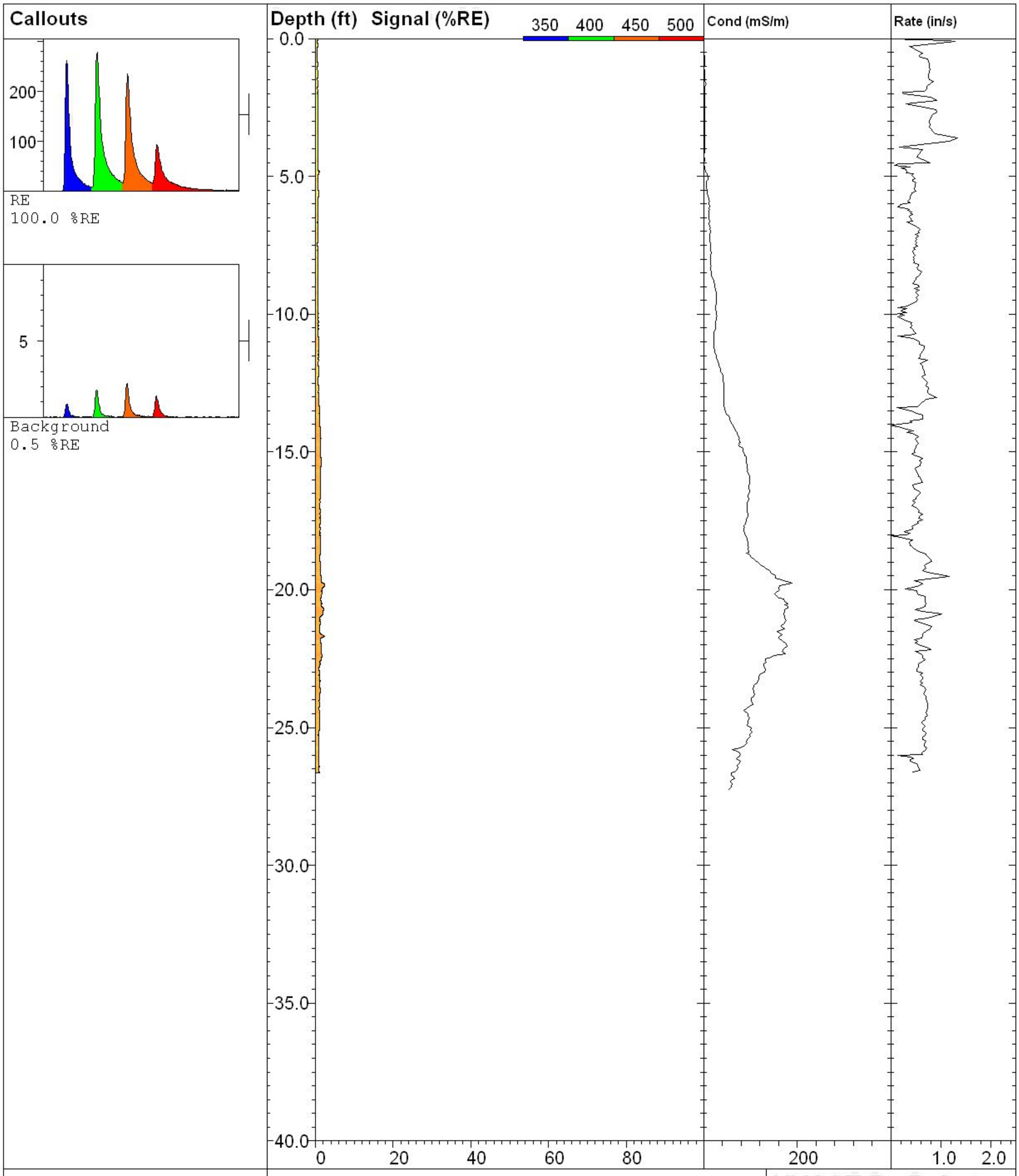
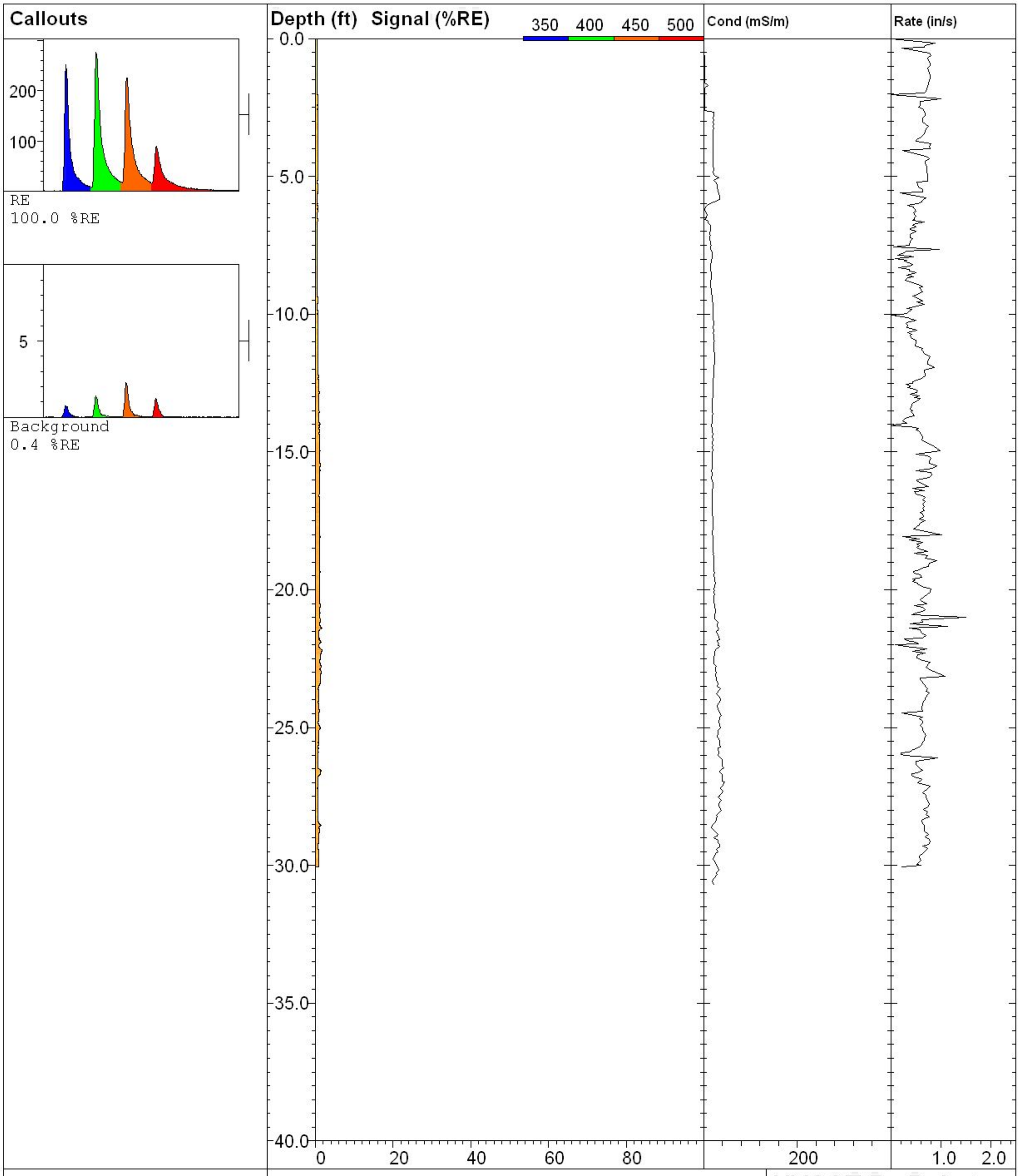
www.matrixenv.com



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-049**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.02 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.9 % @ 24.57 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-25 14:26 CDT**

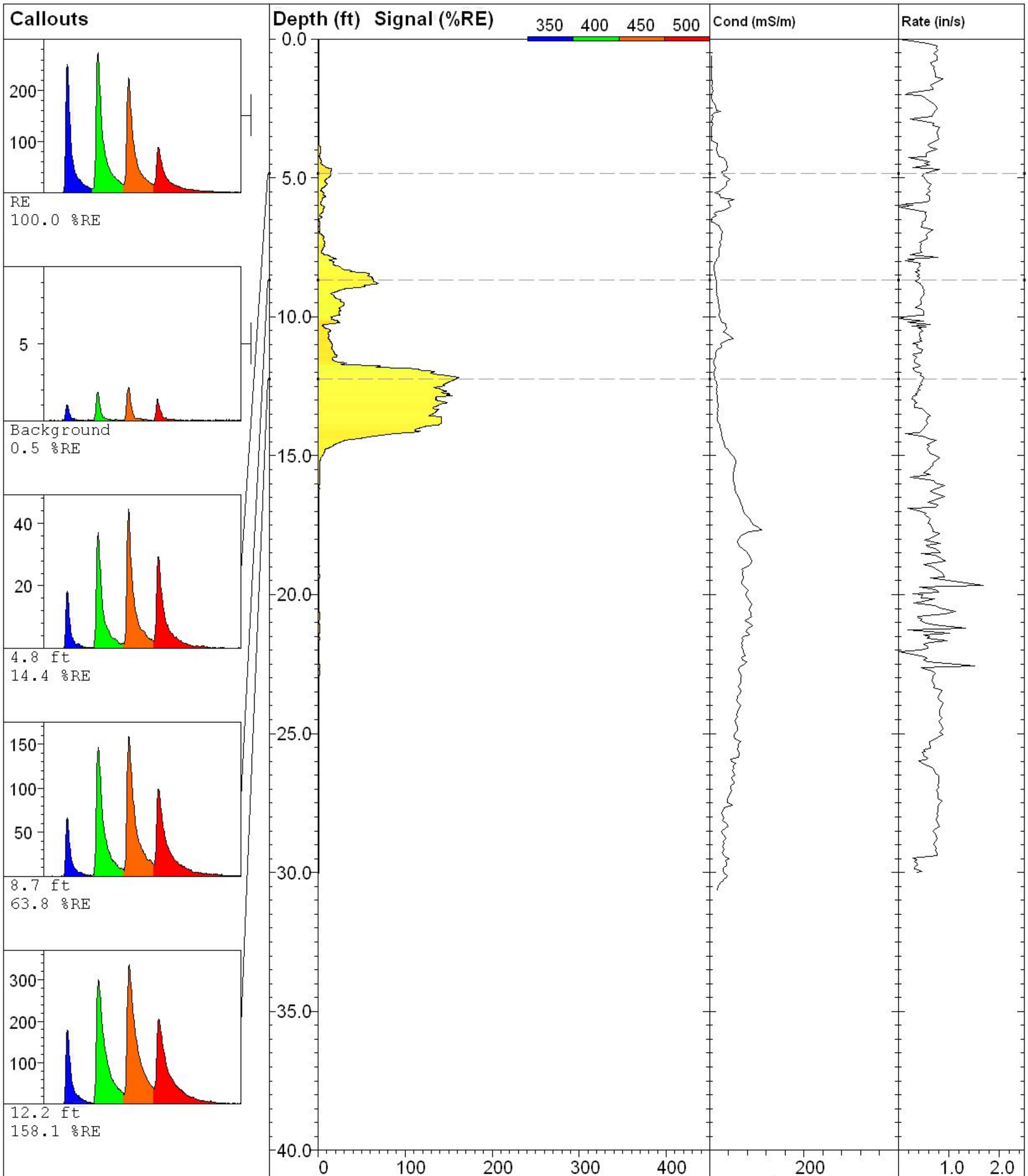


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-050**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **26.65 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **2.4 % @ 19.79 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-26 07:12 CDT**



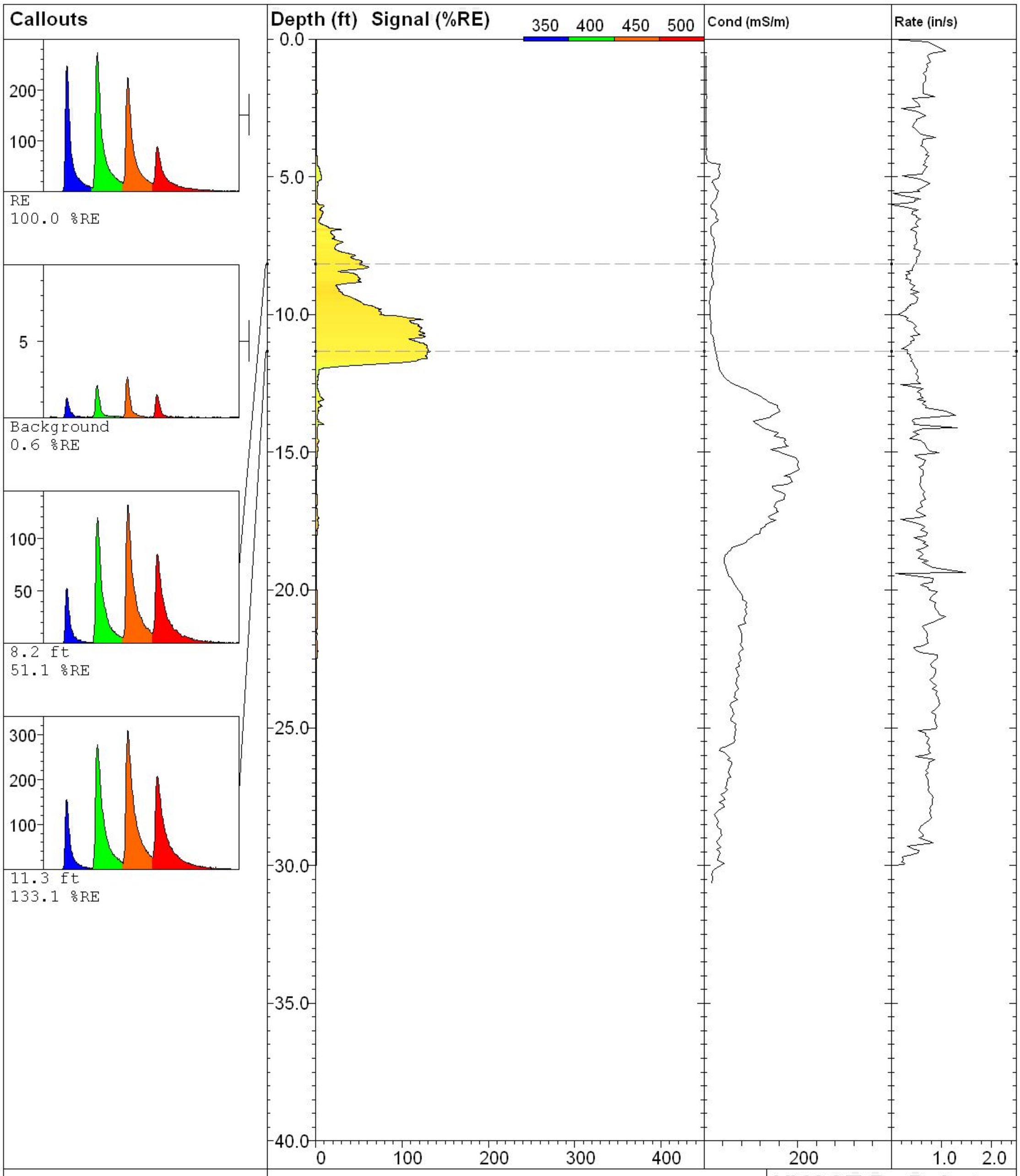
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-051**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.05 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.8 % @ 22.18 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-26 08:09 CDT**

UVOST LOGS
@ 450% RE



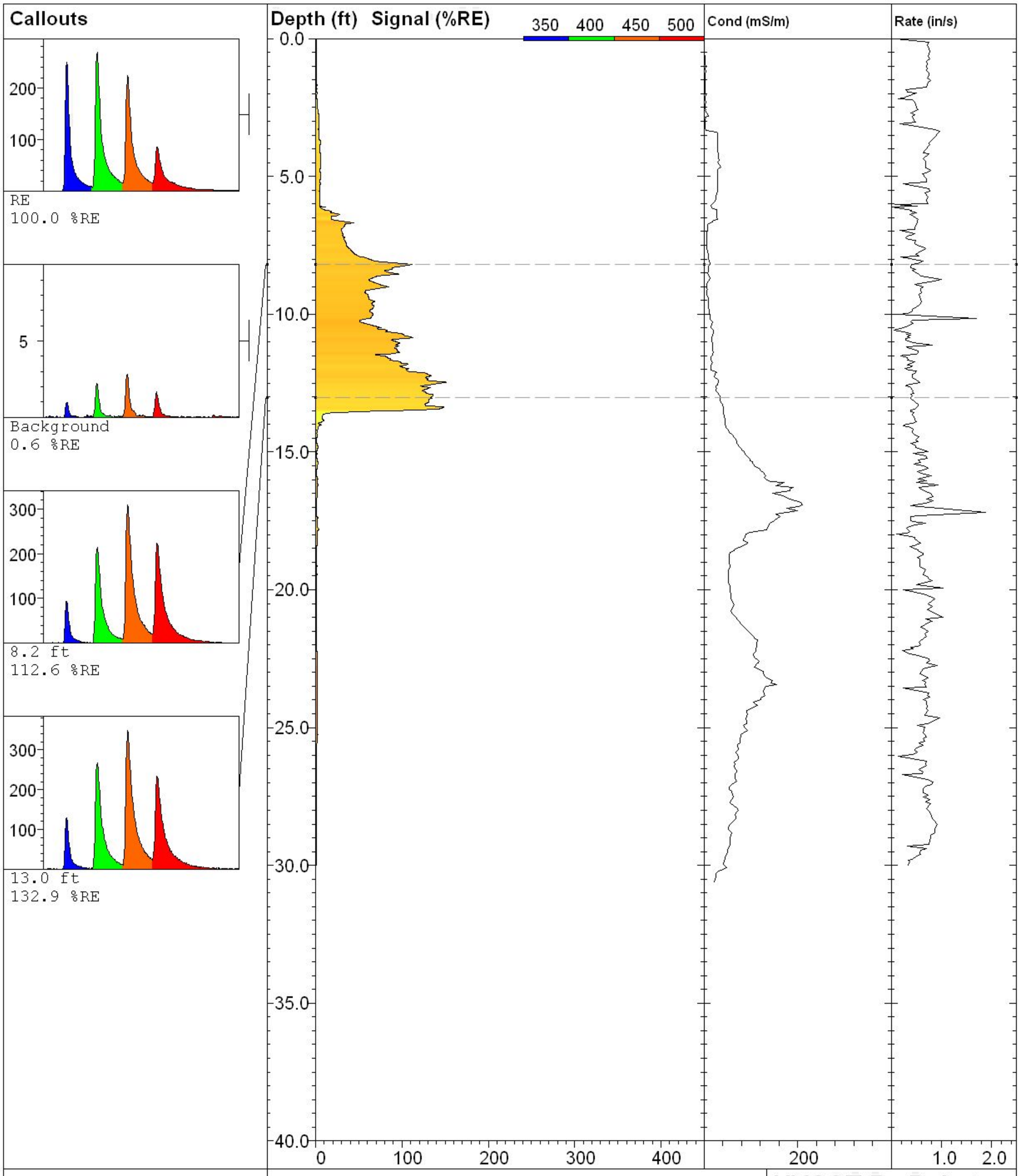
LIF-36-001		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.02 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **162.2 % @ 12.18 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-17 15:35 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com



LIF-36-002		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **133.1 % @ 11.34 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-17 16:22 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com



LIF-36-003		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **151.4 % @ 12.47 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-18 08:04 CDT**

MATRIX ENVIRONMENTAL LLC
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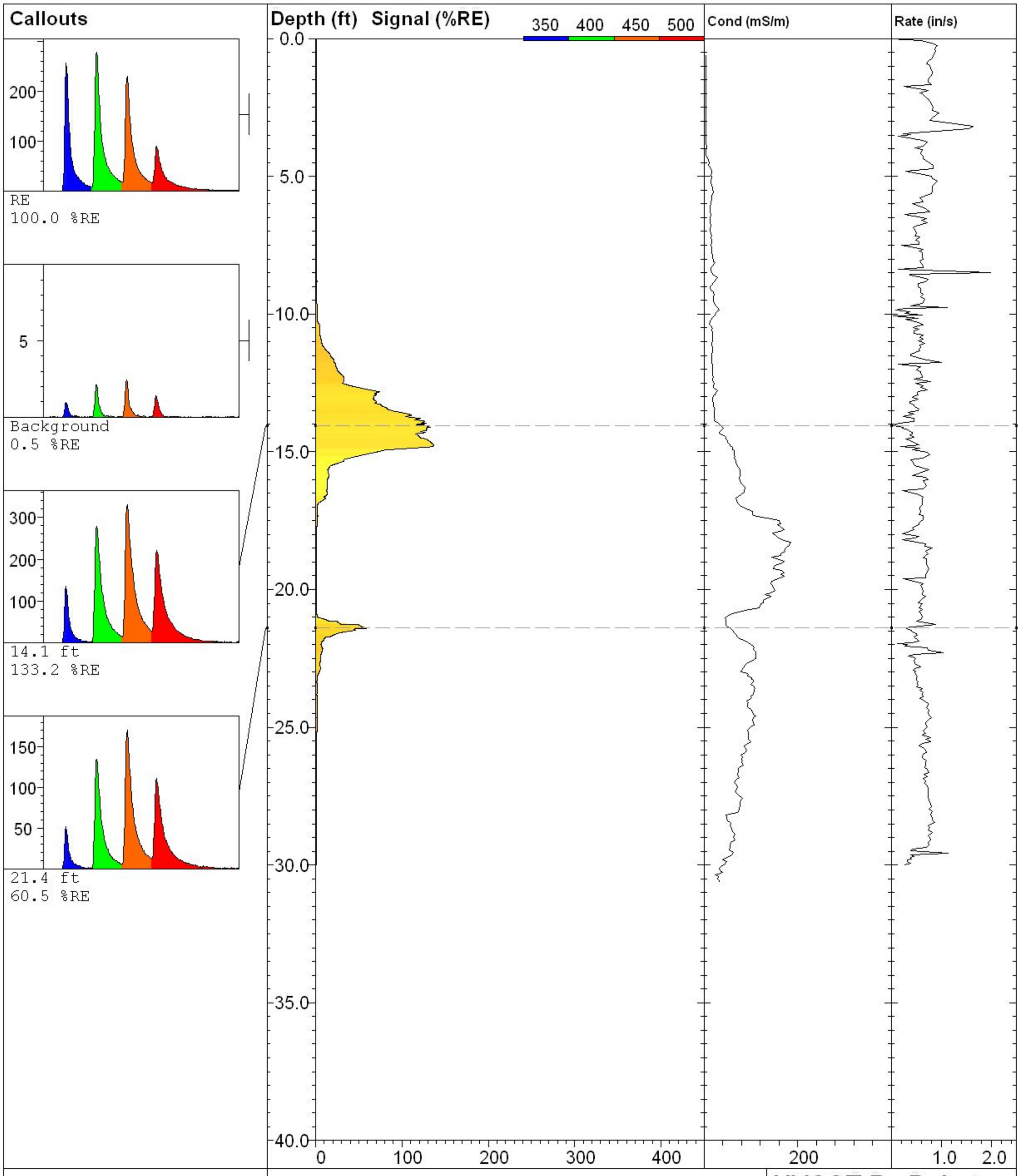
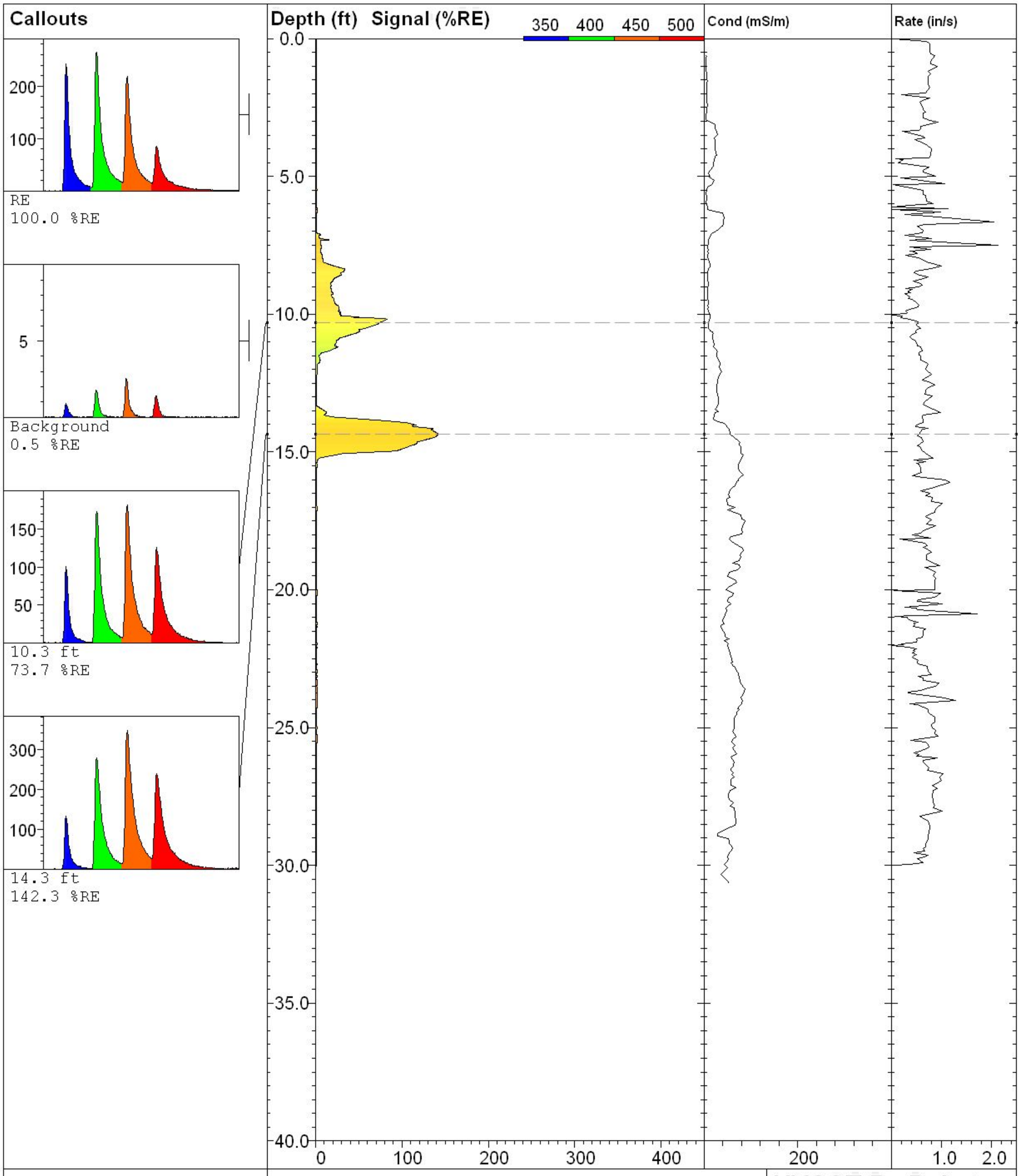


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-005**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **136.5 % @ 14.73 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-18 09:28 CDT**



LIF-36-006		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **142.3 % @ 14.35 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-18 10:07 CDT**

MATRIX ENVIRONMENTAL LLC
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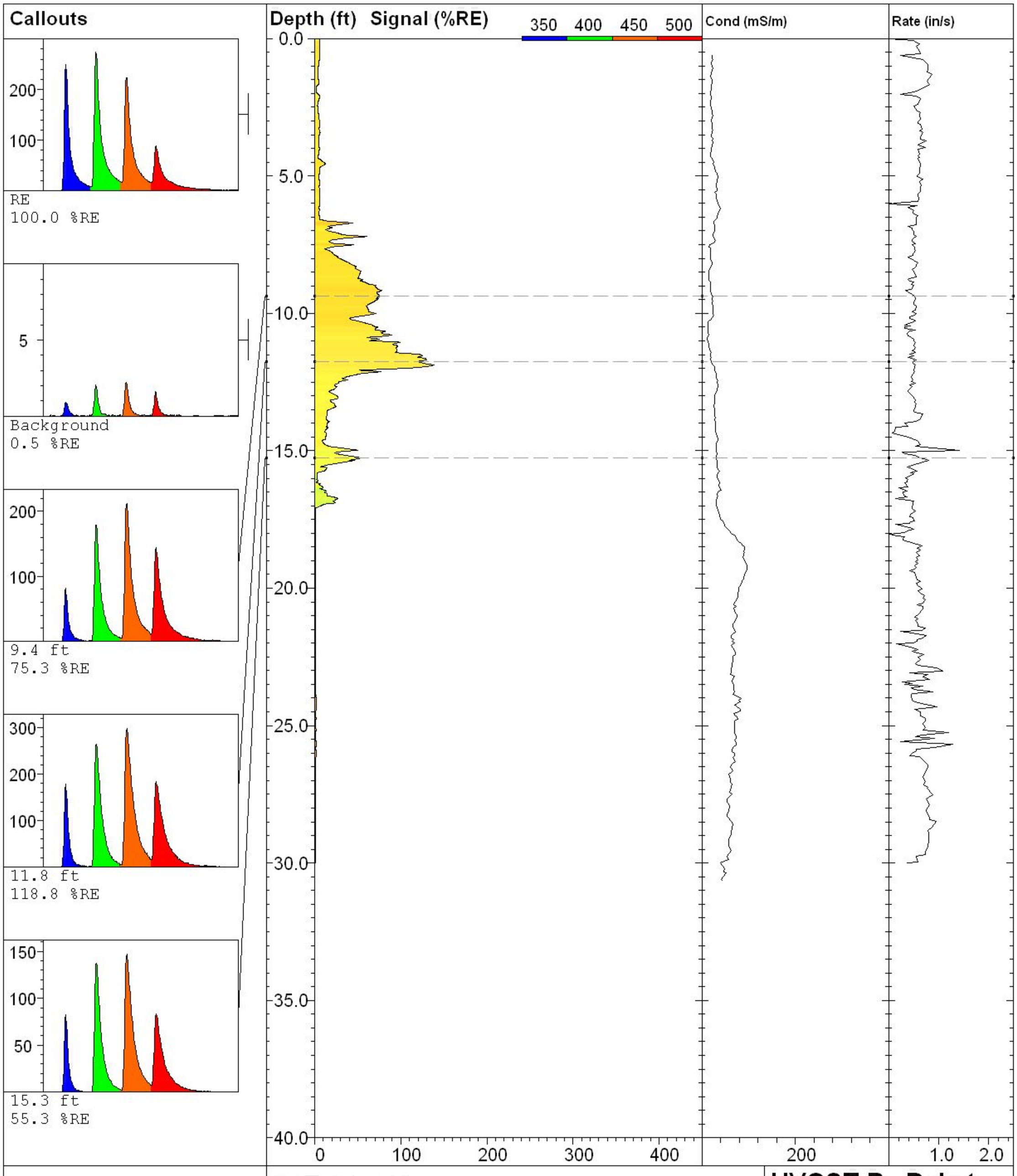
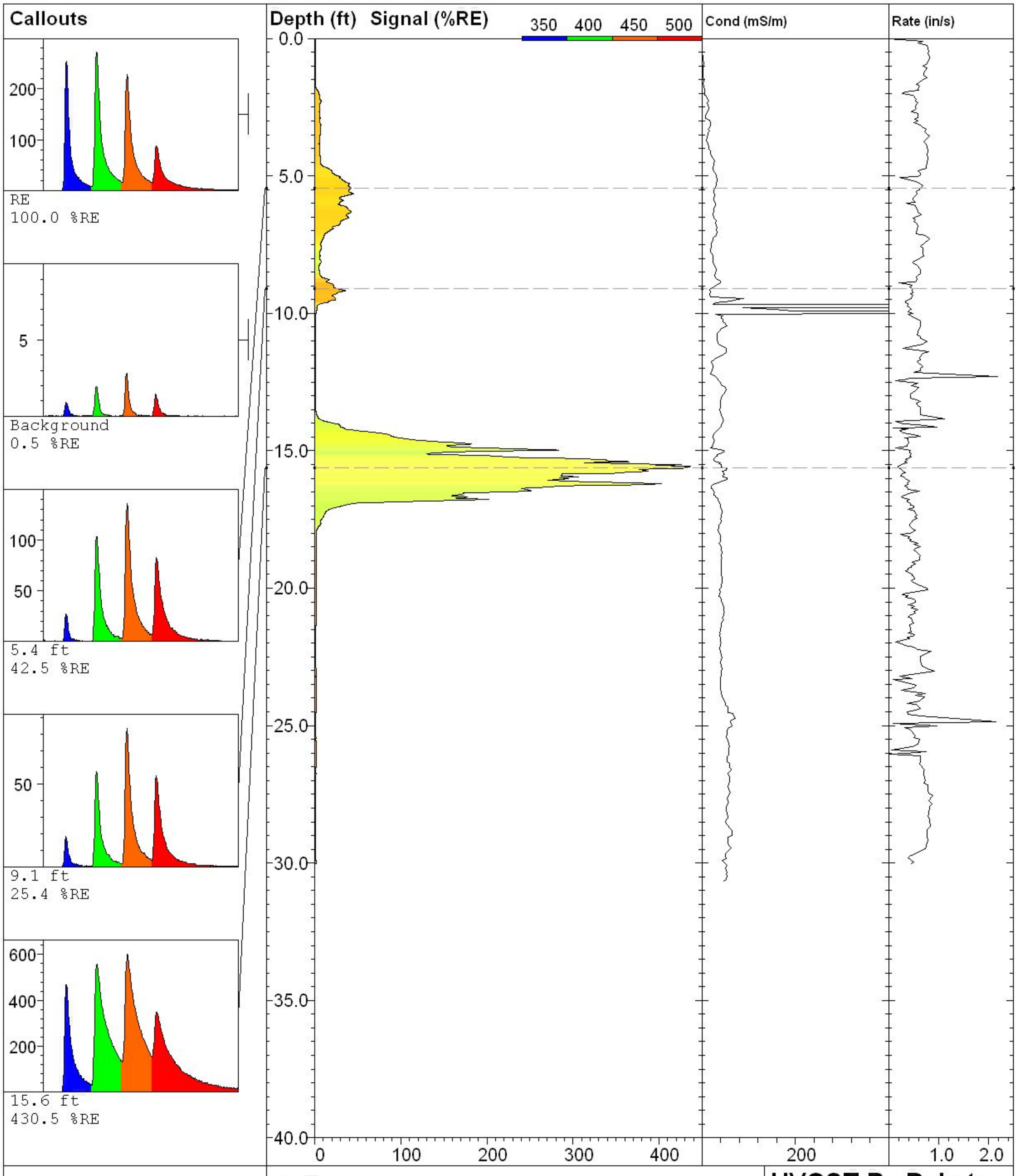


MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

LIF-36-008

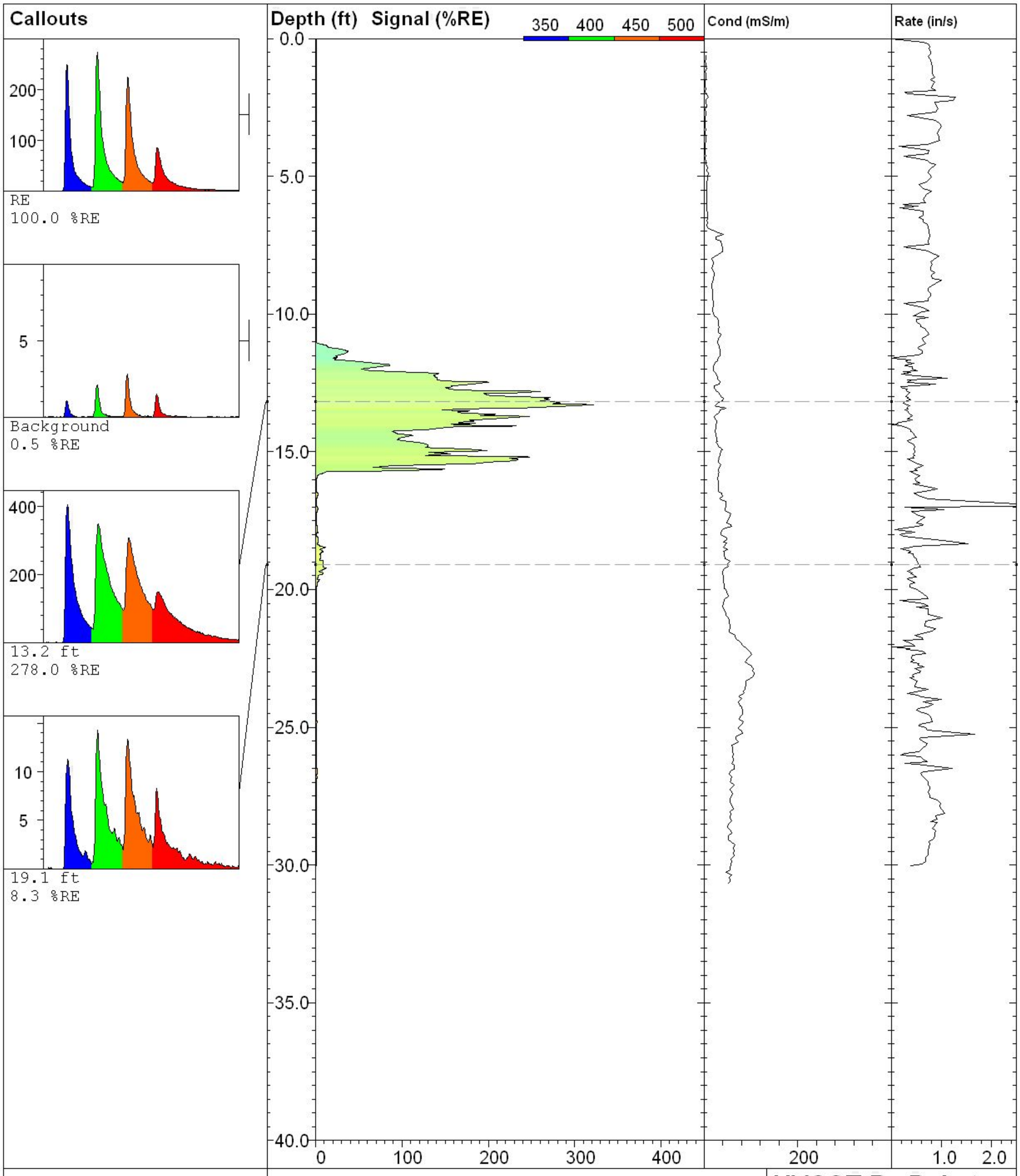
UVOST By Dakota
www.DakotaTechnologies.com

Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **138.7 % @ 11.88 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-18 13:18 CDT**

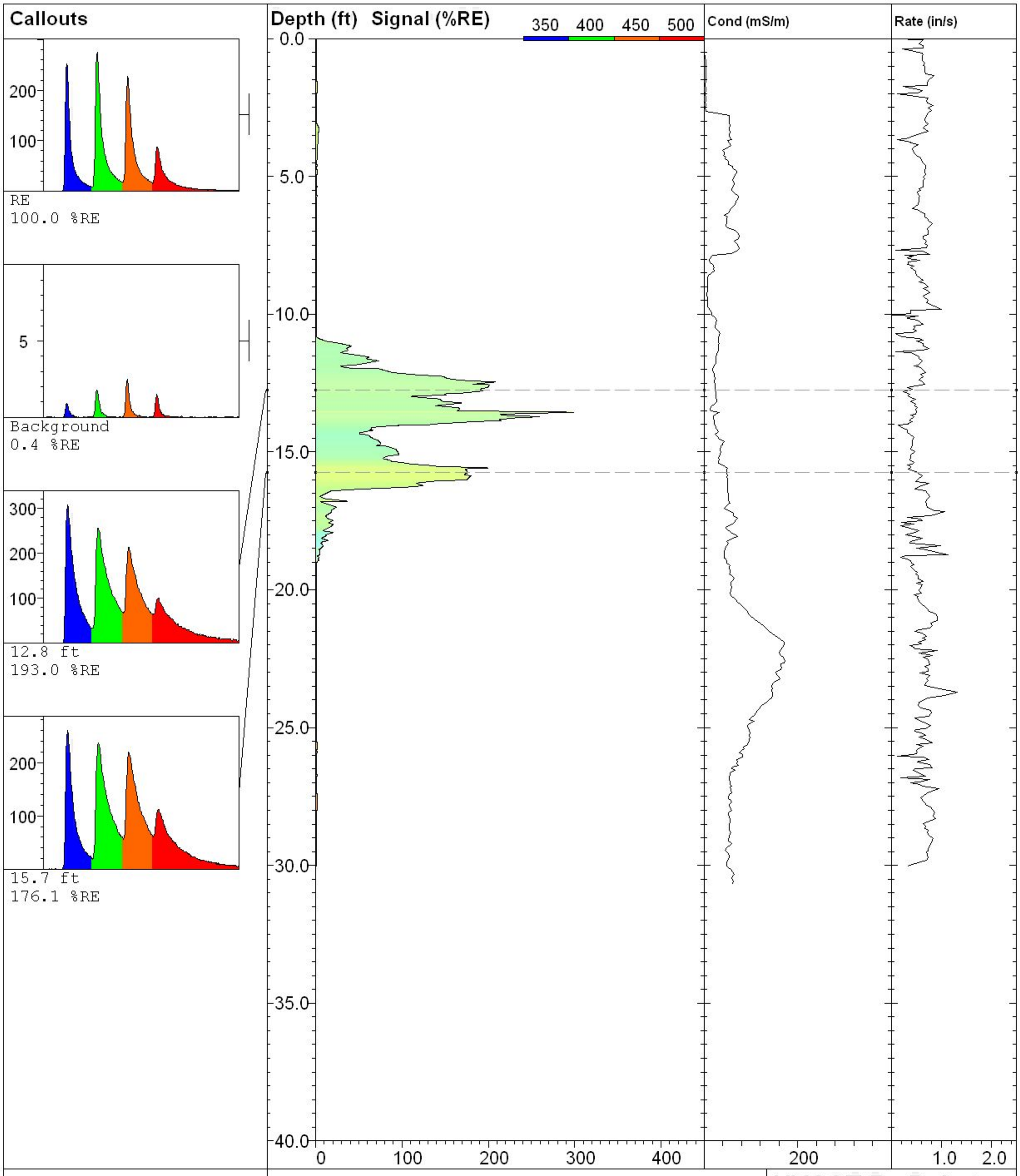


LIF-36-010		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.03 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **437.0 % @ 15.56 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-19 07:20 CDT**

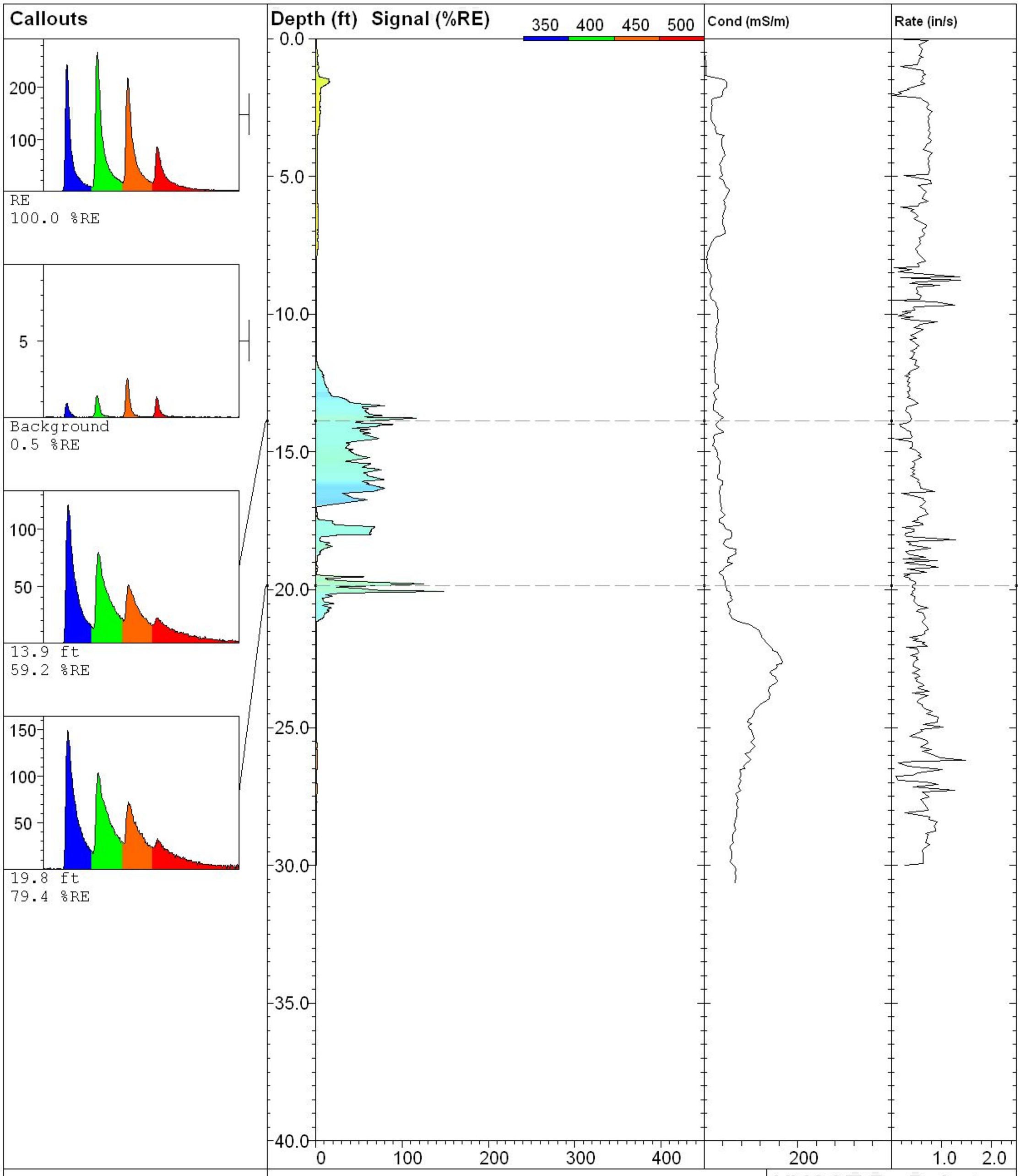
MATRIX ENVIRONMENTAL LLC
www.matrixenv.com



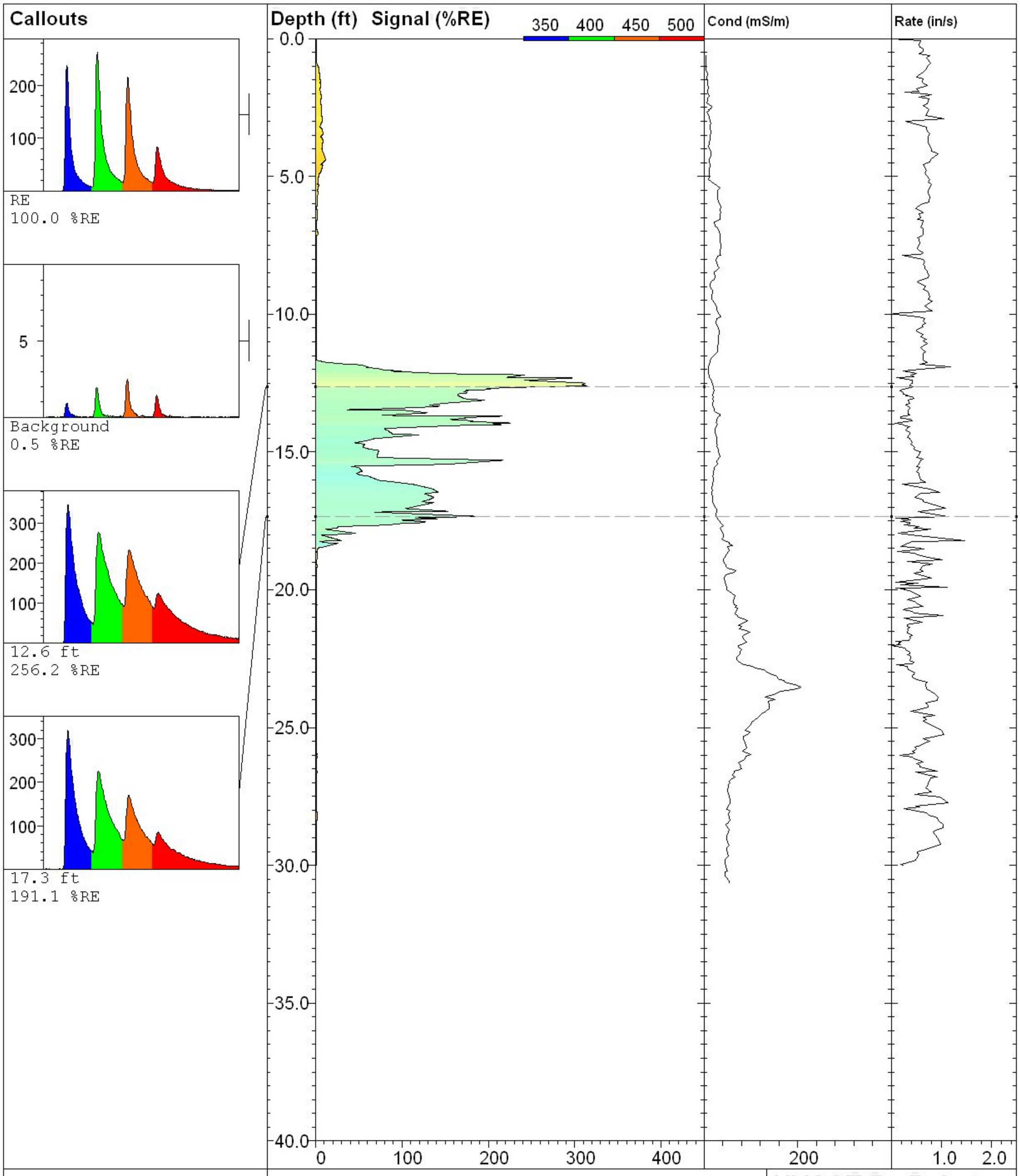
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-011**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.03 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **322.8 % @ 13.29 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-19 08:09 CDT**



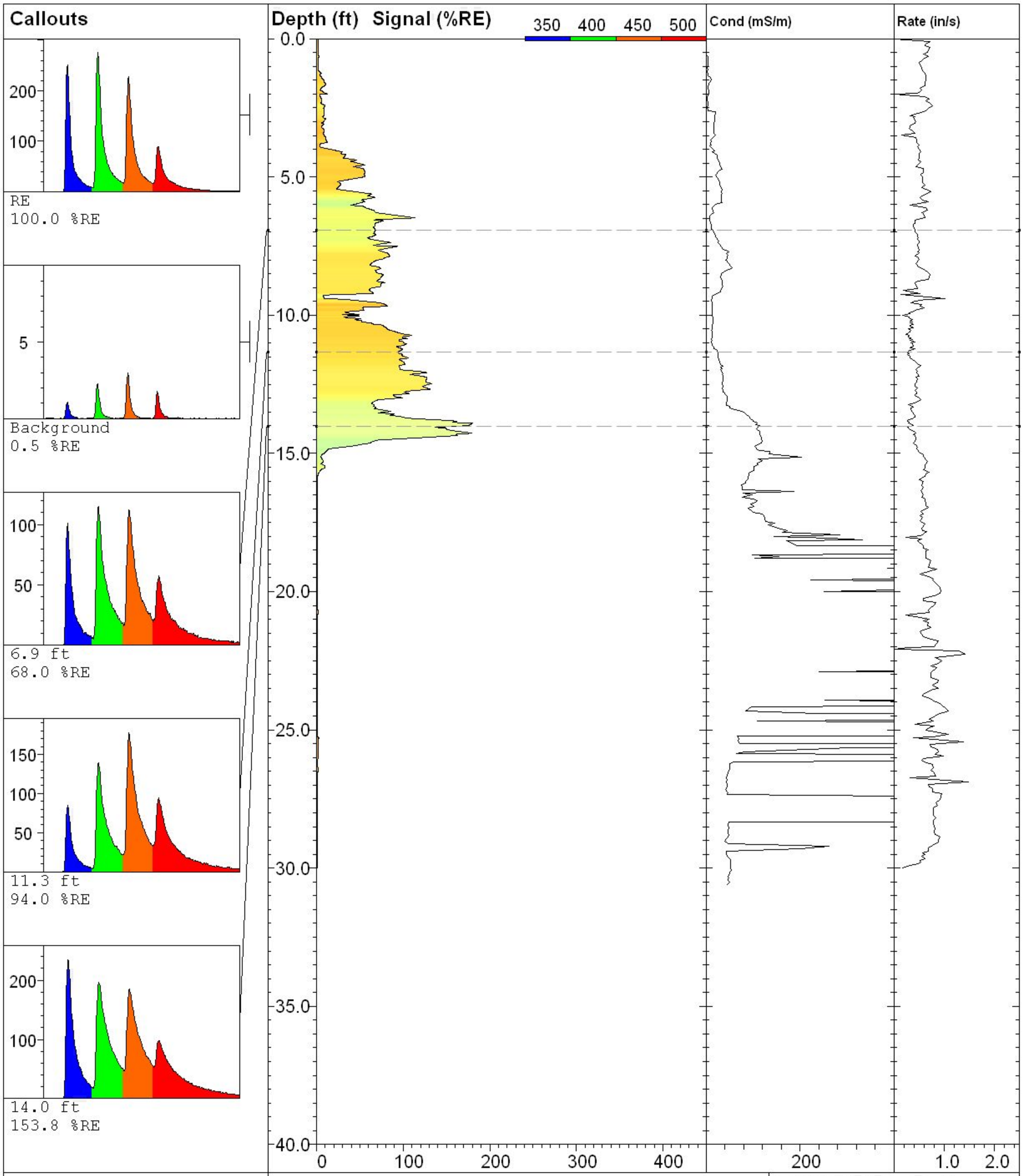
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-012**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.03 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **302.3 % @ 13.56 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-19 08:49 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-013**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **149.5 % @ 20.06 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-19 09:28 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-014**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **314.2 % @ 12.60 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-19 10:11 CDT**



LIF-36-017		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **180.4 % @ 14.27 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-19 14:34 CDT**

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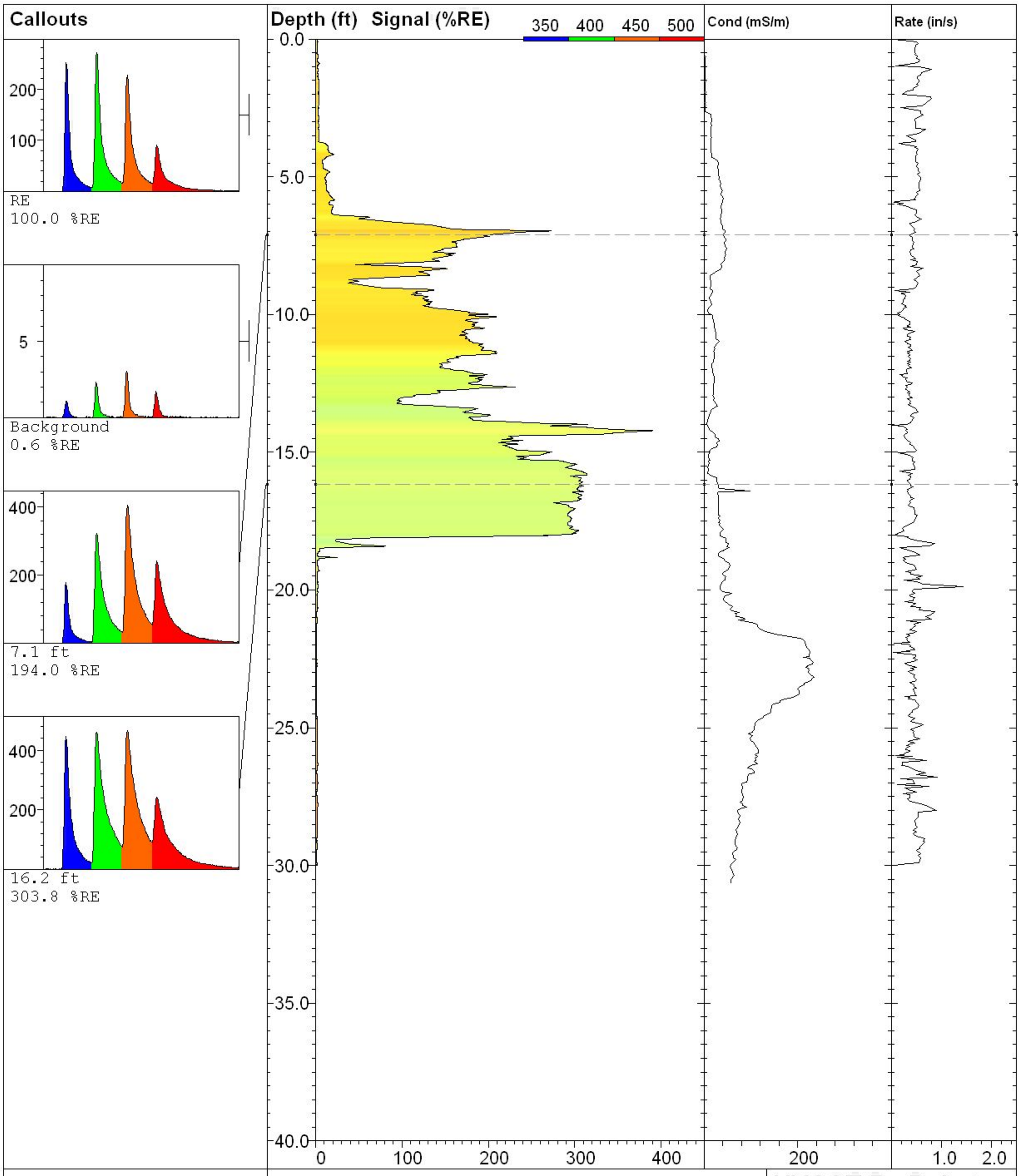
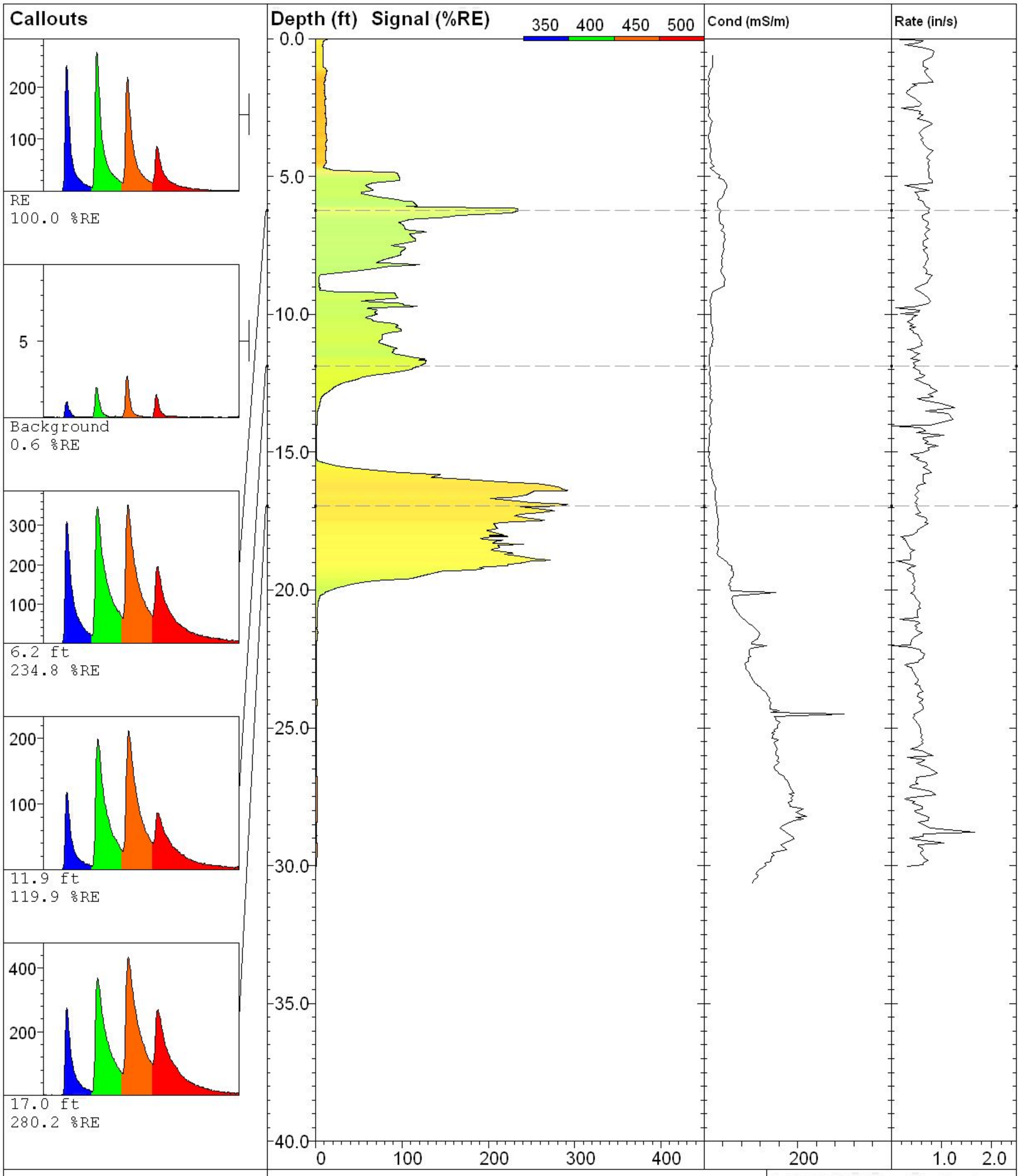
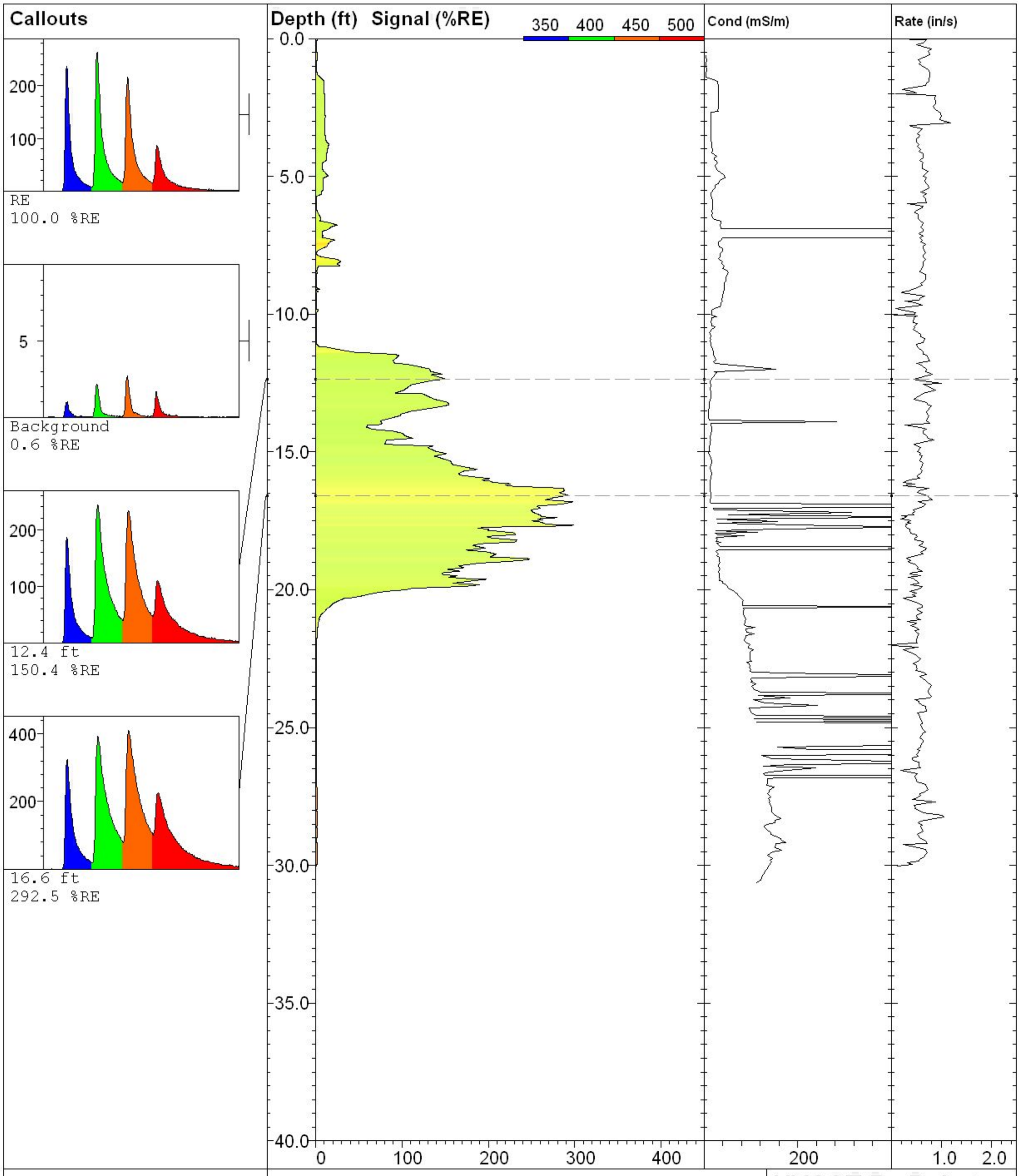


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-018**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **391.5 % @ 14.22 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-20 07:32 CDT**



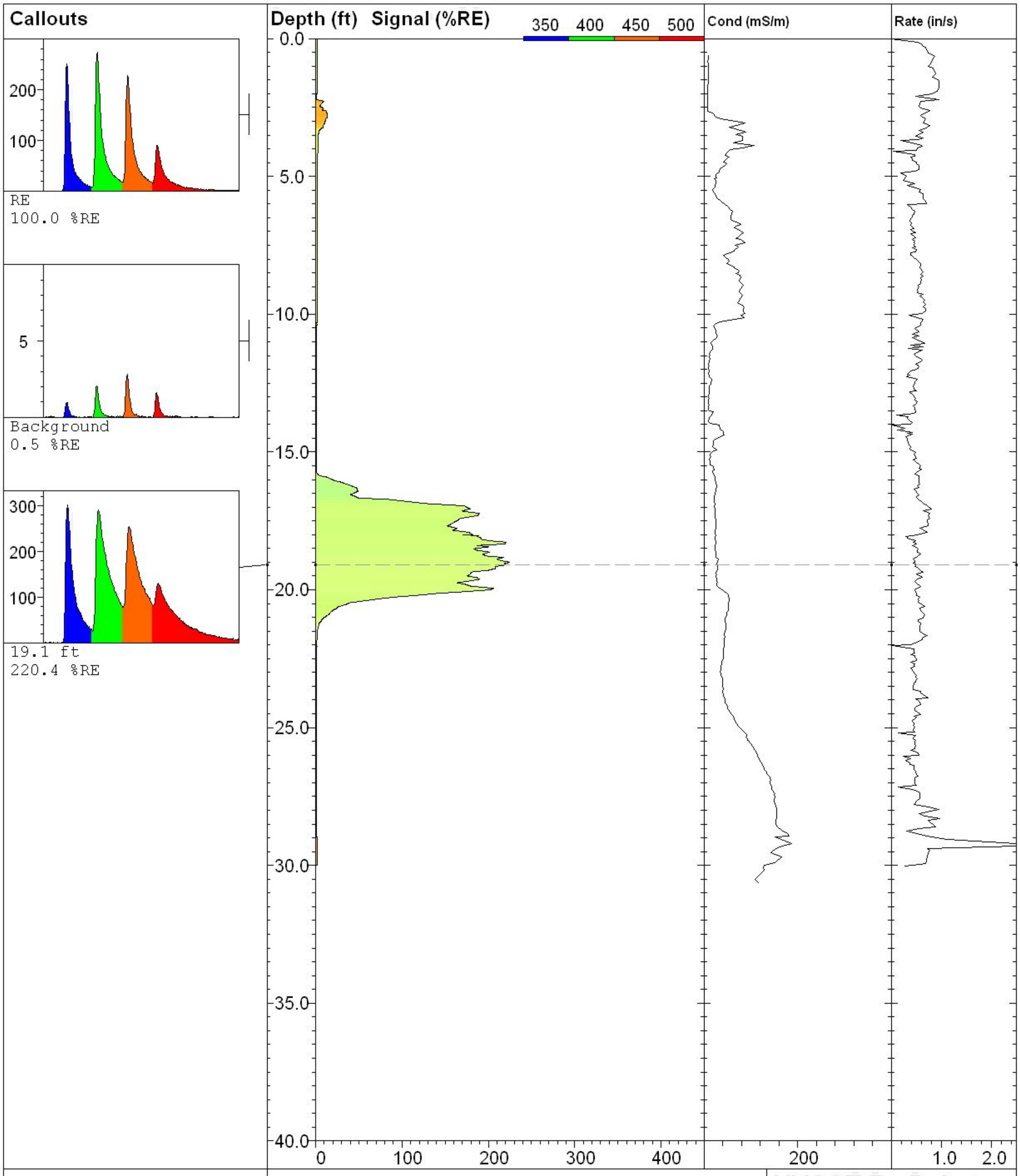
LIF-36-020		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **292.4 % @ 16.89 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-20 08:57 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

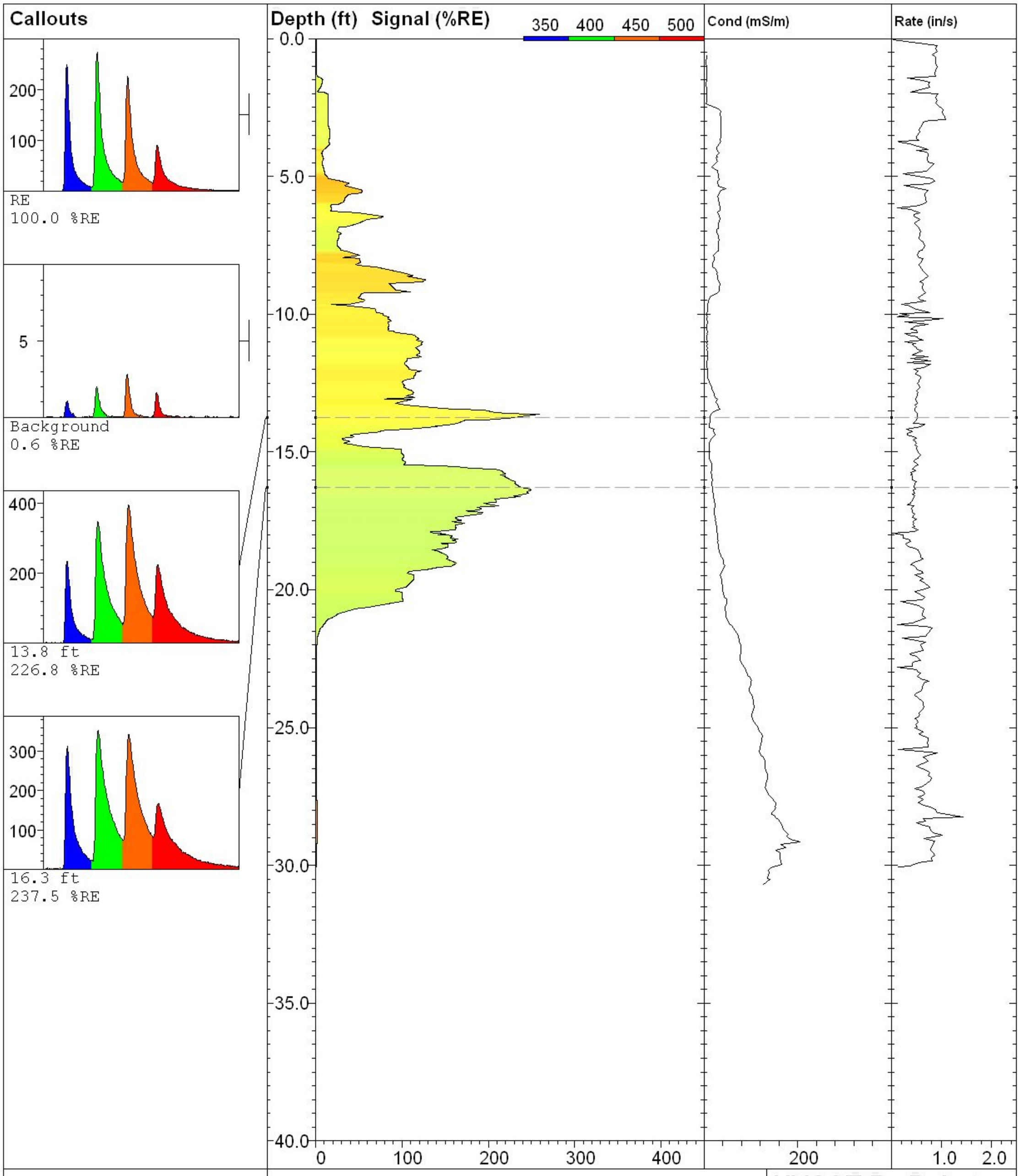


LIF-36-021		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **300.0 % @ 17.65 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-20 09:58 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-024**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **225.2 % @ 19.00 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-20 13:42 CDT**



LIF-36-025		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.06 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **259.9 % @ 13.62 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-20 14:25 CDT**

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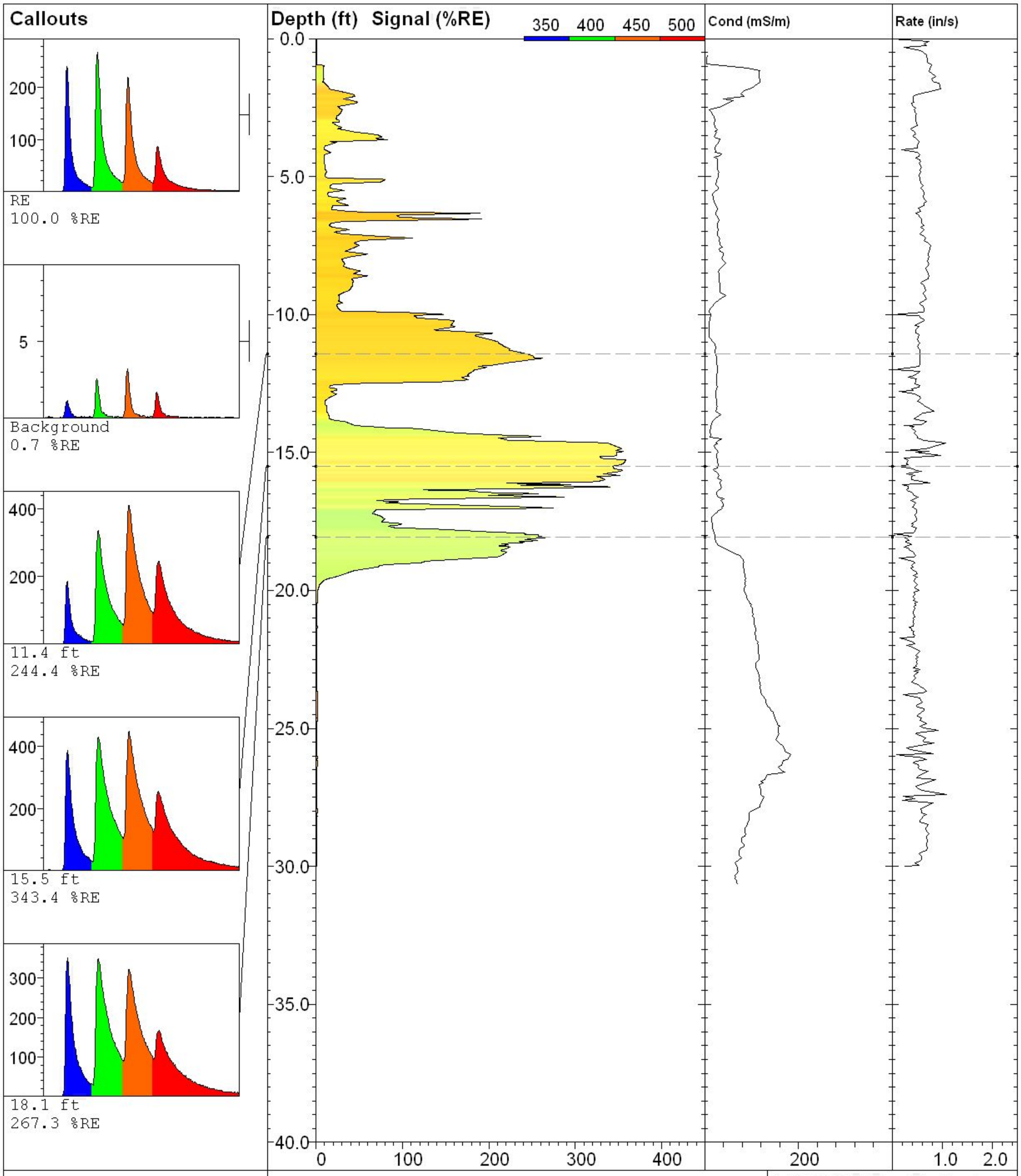
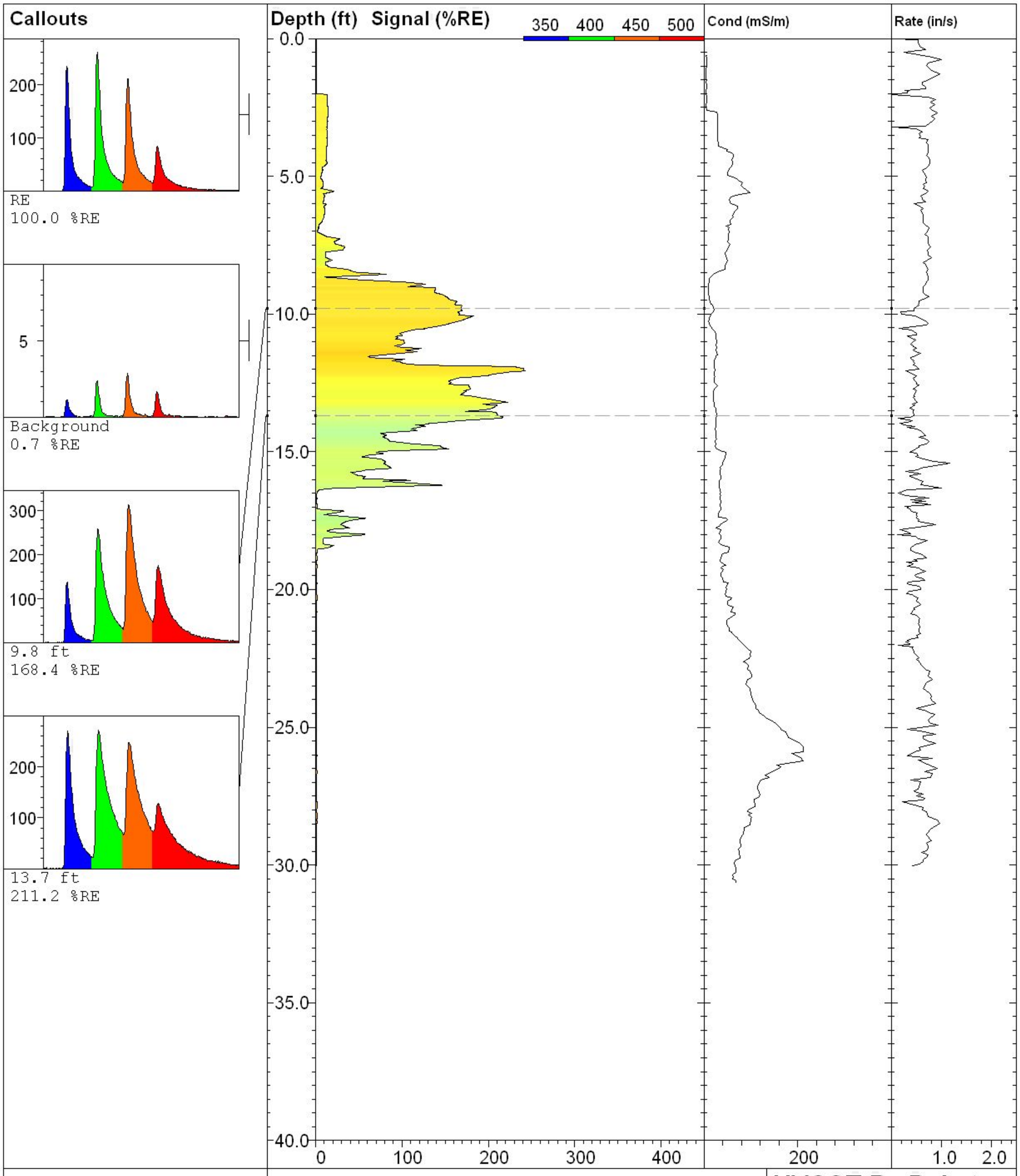
www.matrixenv.com



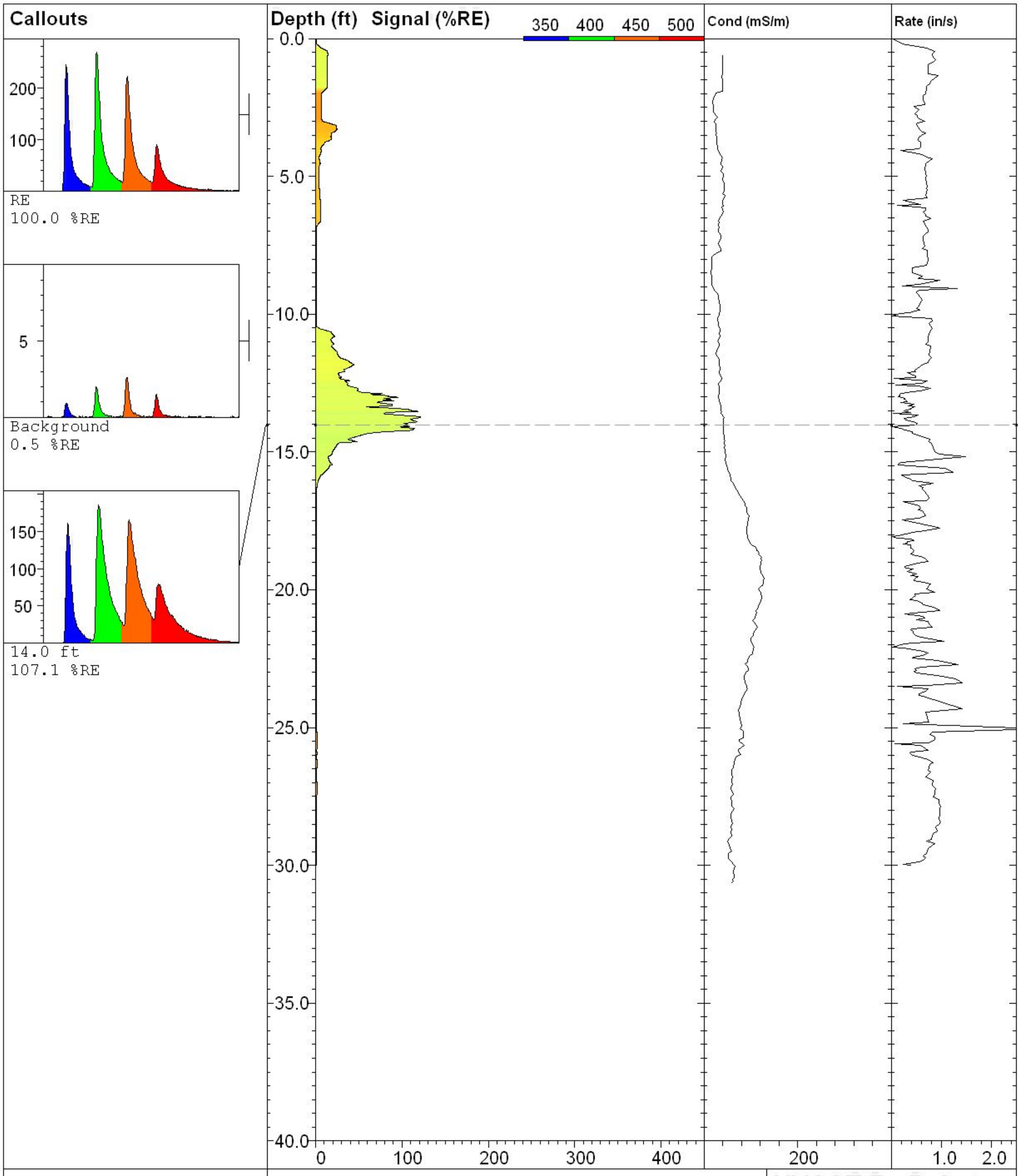
LIF-36-026		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **29.99 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **358.6 % @ 15.27 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-20 15:07 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

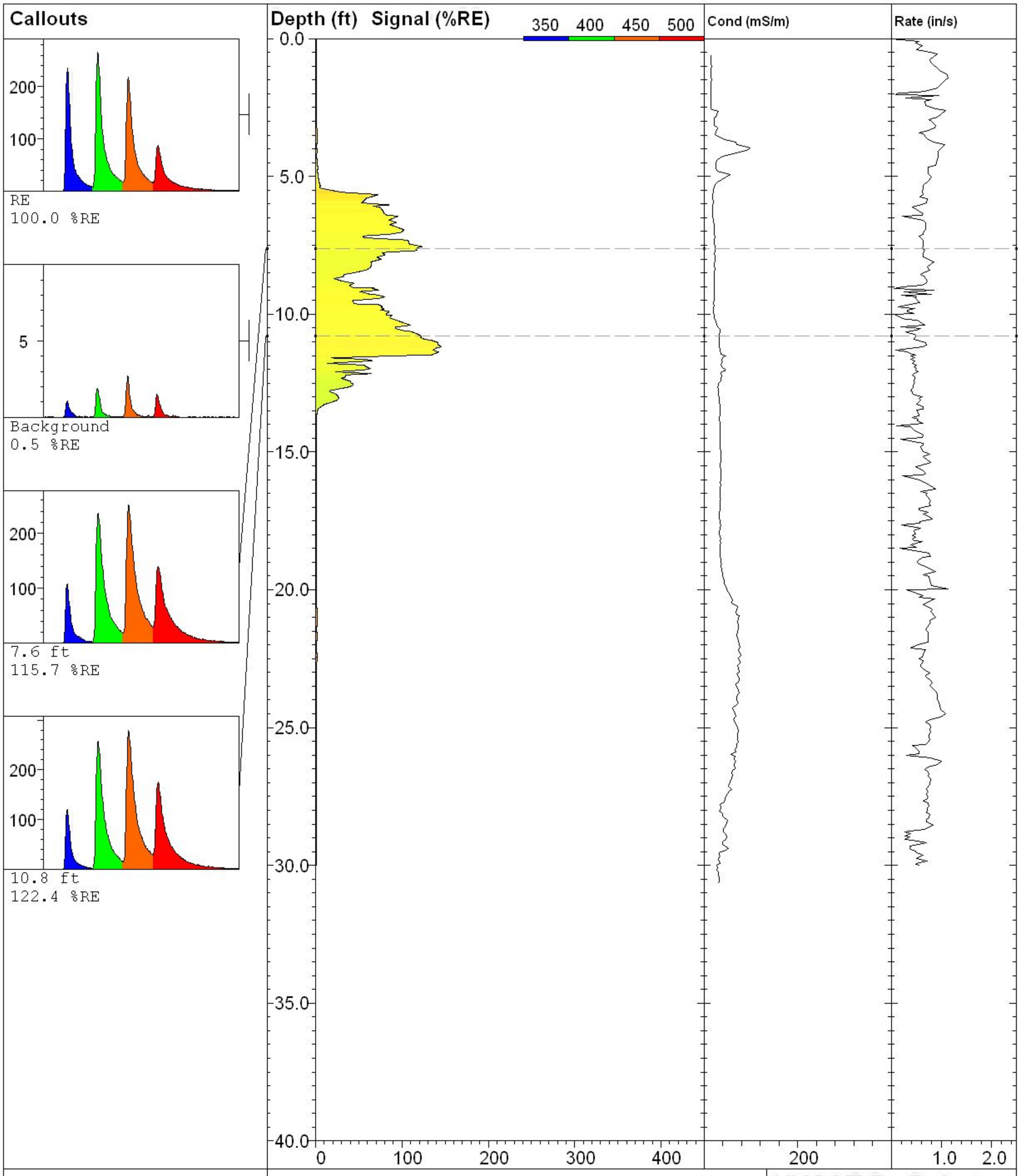


LIF-36-027		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **242.5 % @ 12.07 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-20 15:54 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

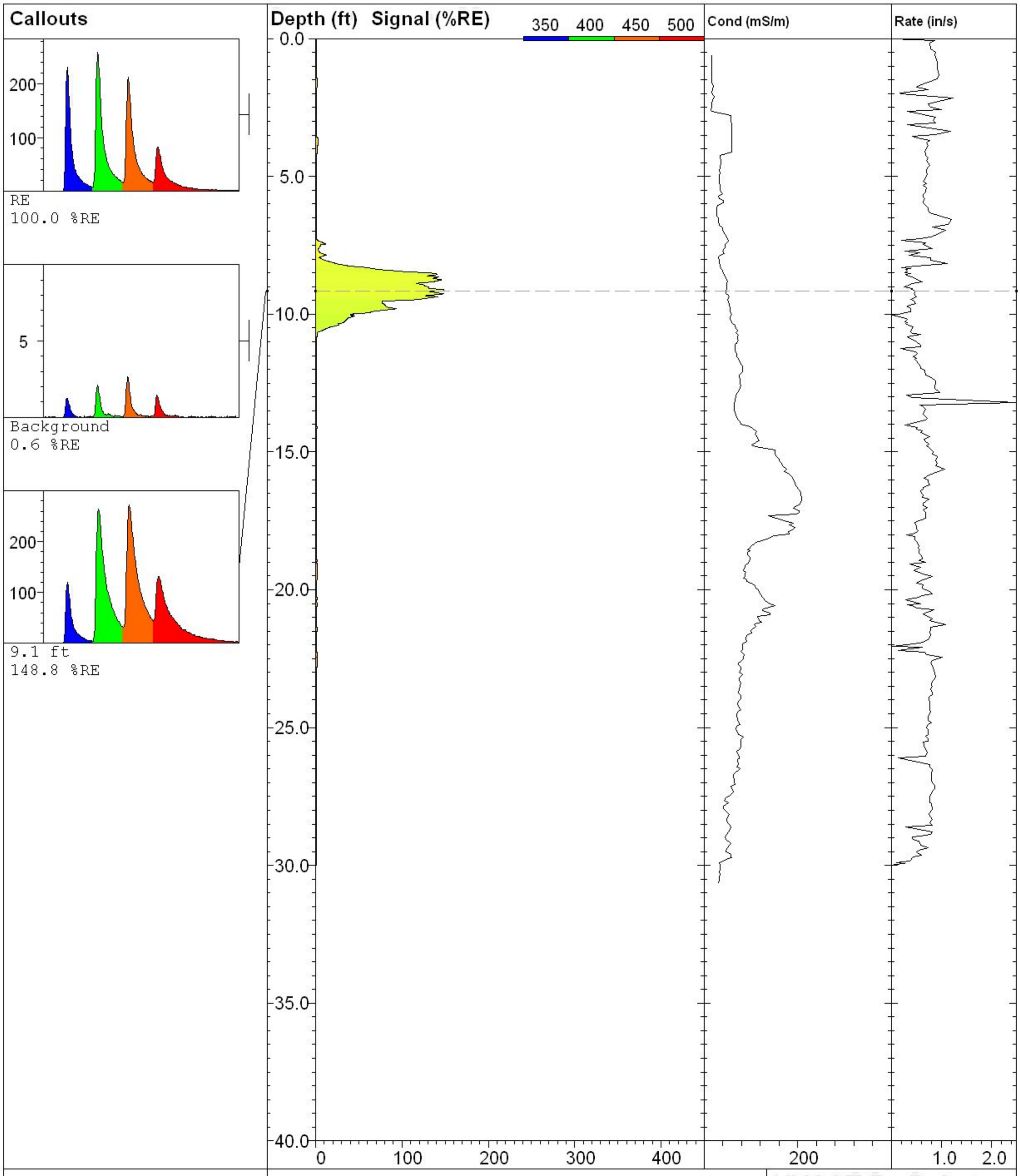


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-030**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **121.5 % @ 13.74 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-21 08:36 CDT**

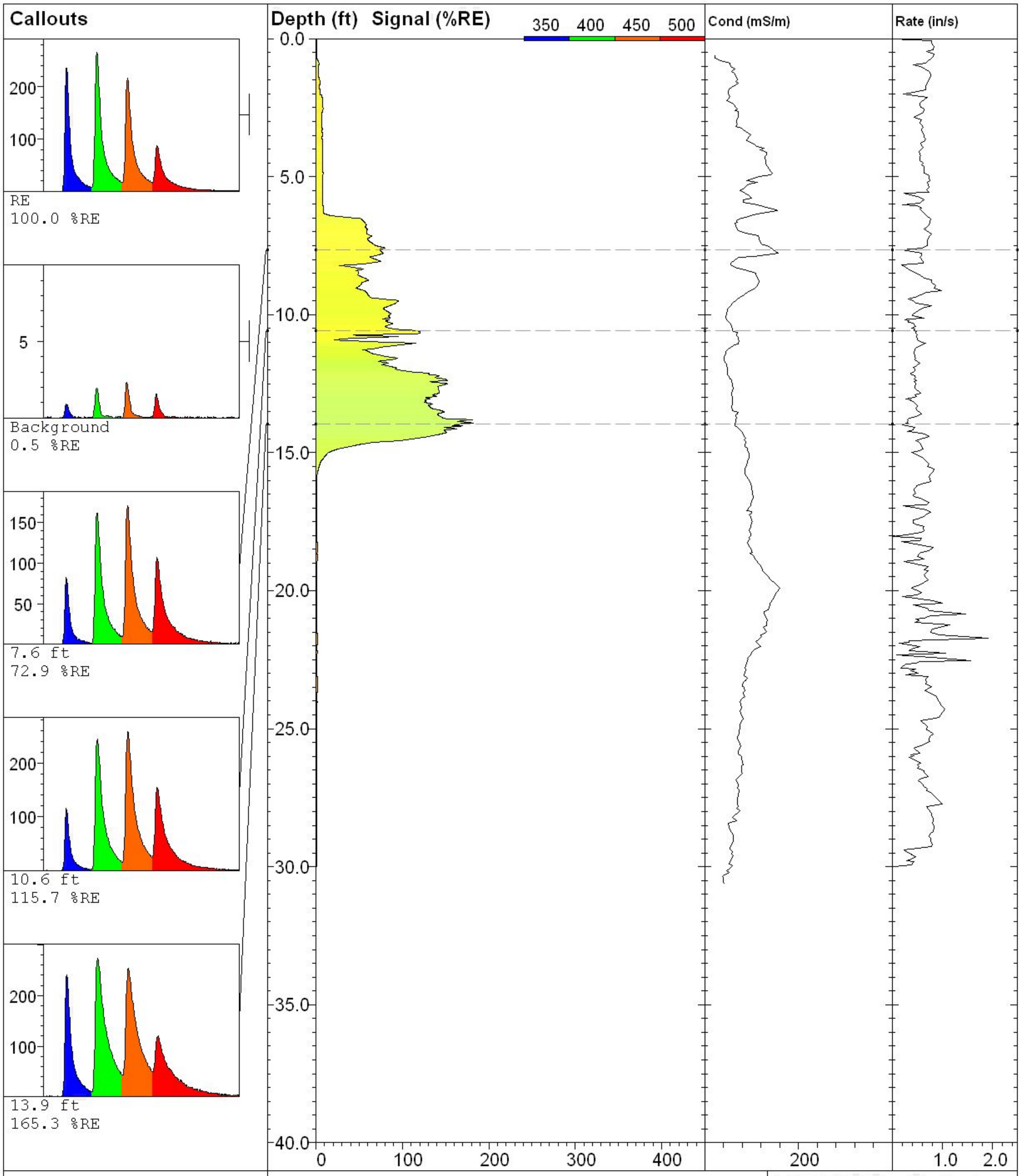


LIF-36-032		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **145.6 % @ 11.20 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-21 09:57 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

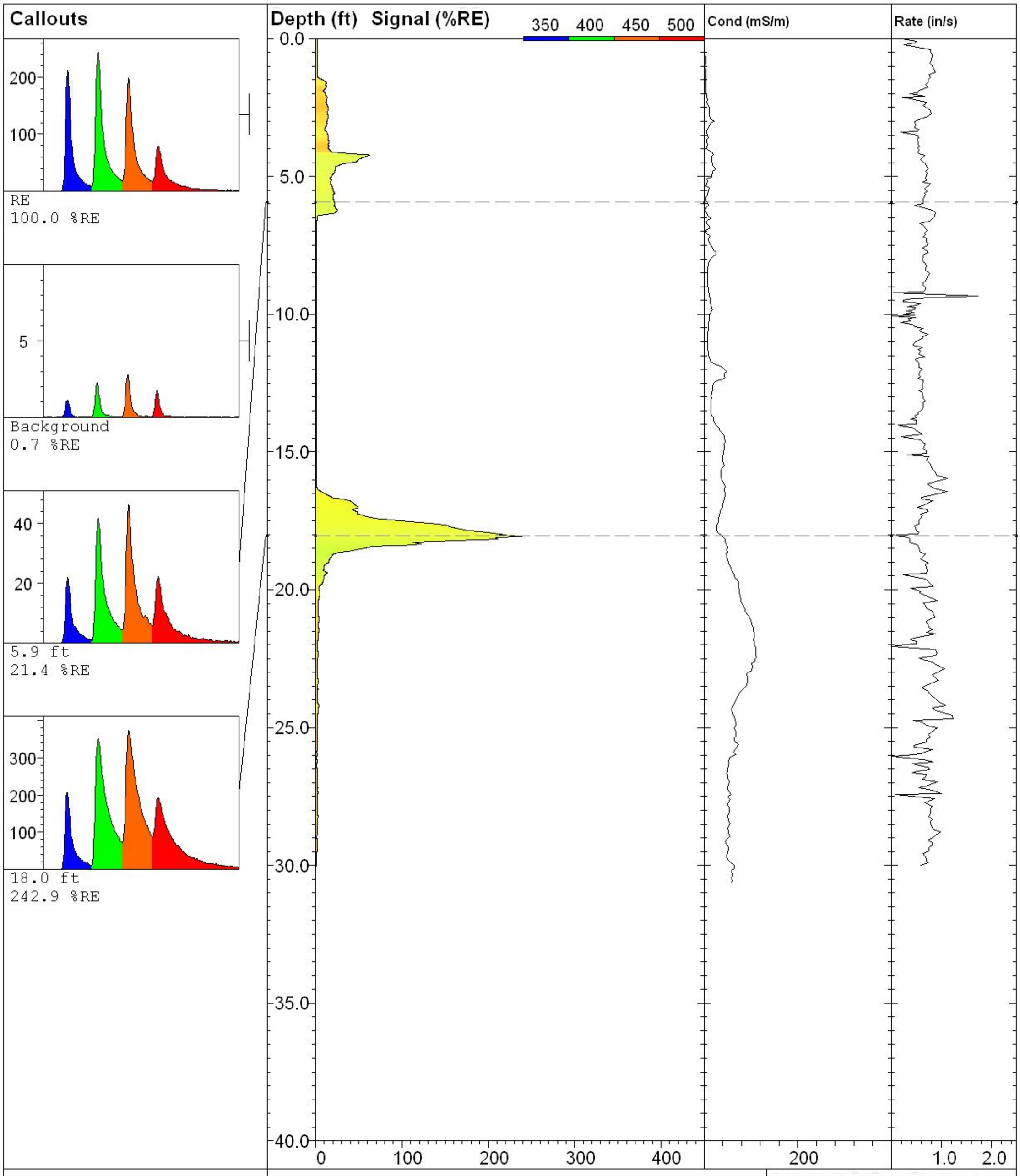


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-033**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **148.8 % @ 9.15 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-21 10:57 CDT**



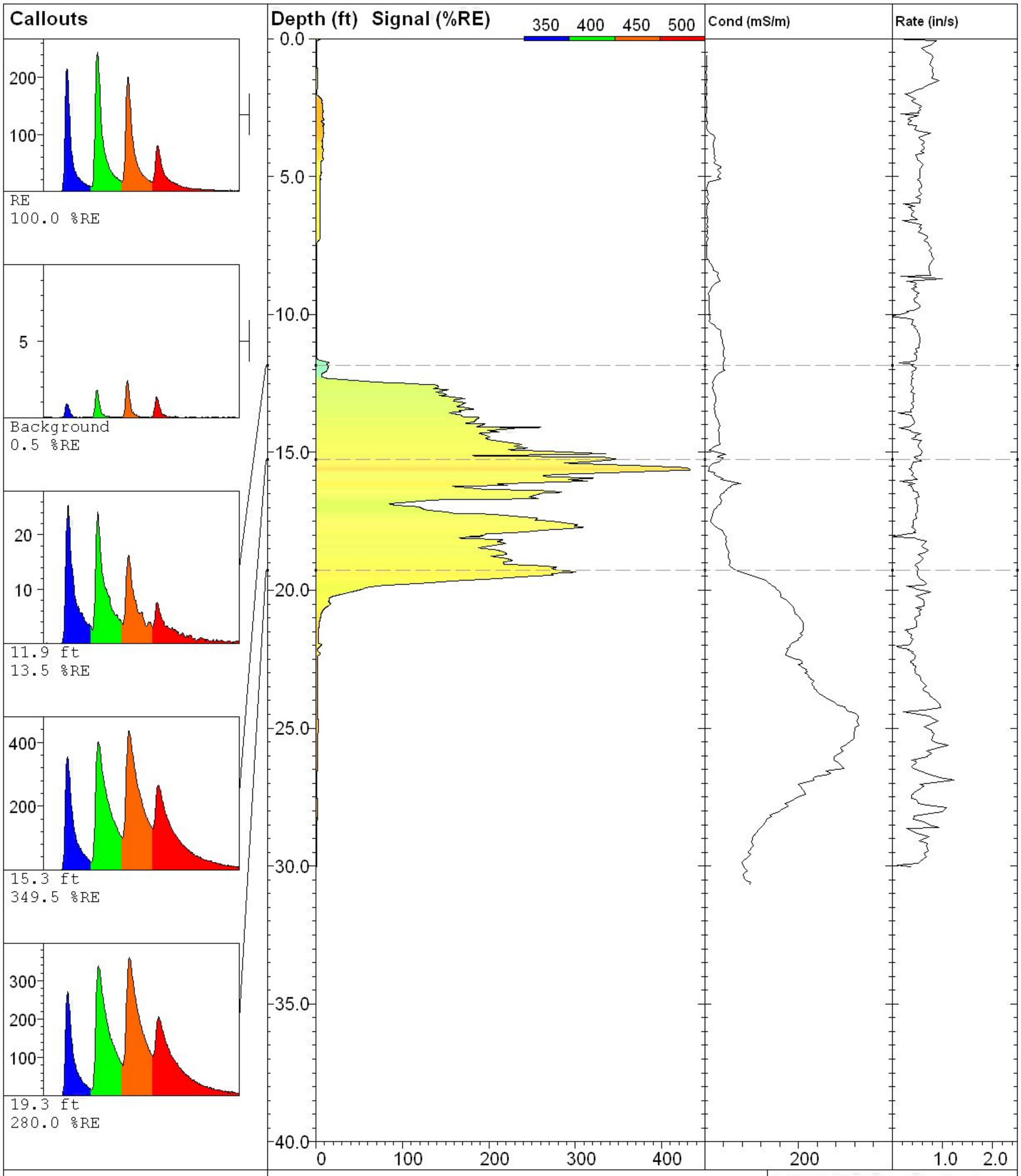
LIF-36-035		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **182.8 % @ 13.92 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-21 13:36 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com



LIF-36-038		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.02 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **242.9 % @ 18.04 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-24 10:56 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

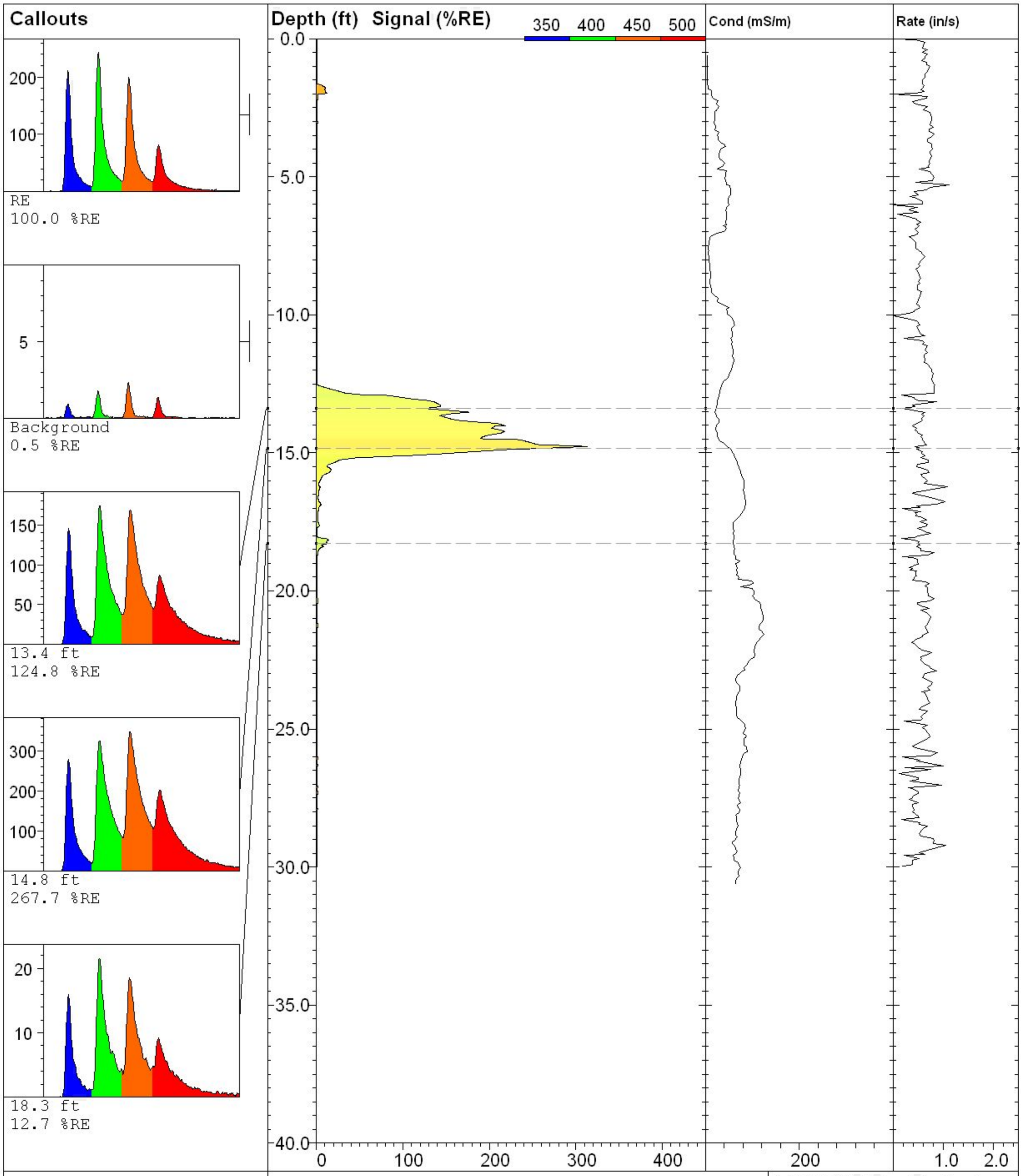


MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

LIF-36-040

UVOST By Dakota
www.DakotaTechnologies.com

Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.03 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **433.1 % @ 15.64 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-24 12:34 CDT**



LIF-36-041		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **314.8 % @ 14.77 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-24 14:35 CDT**

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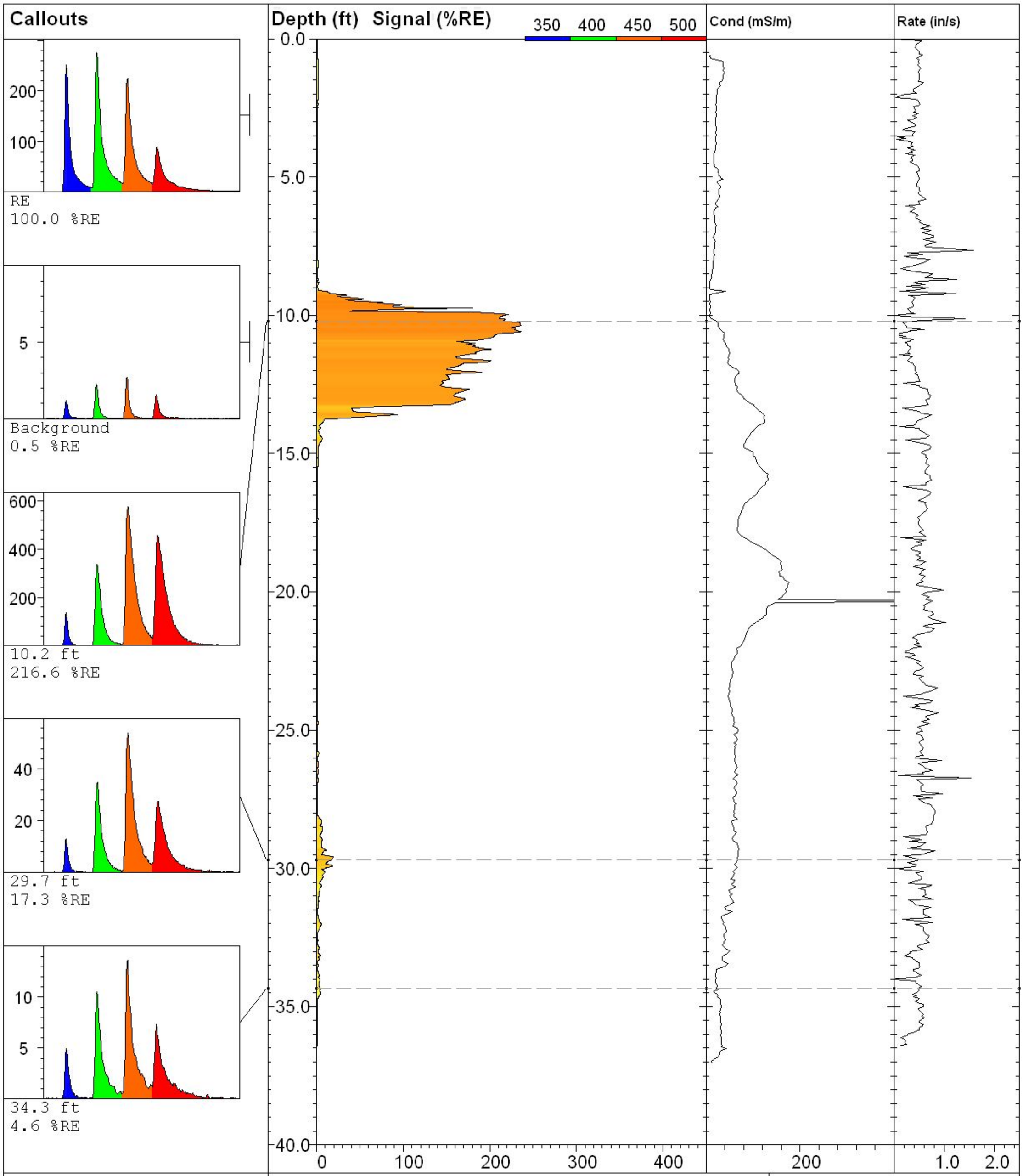

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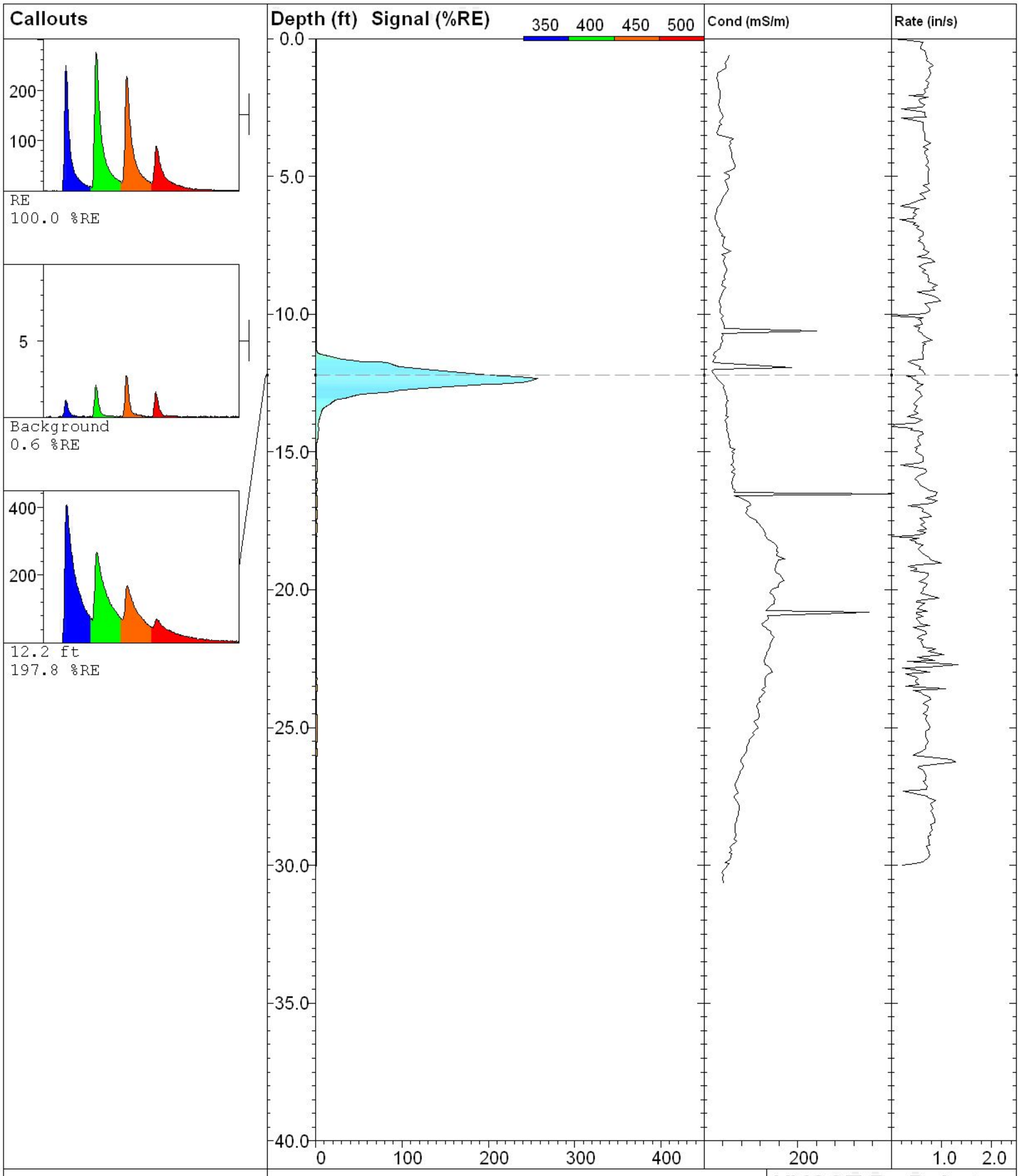
www.matrixenv.com

LIF-36-044

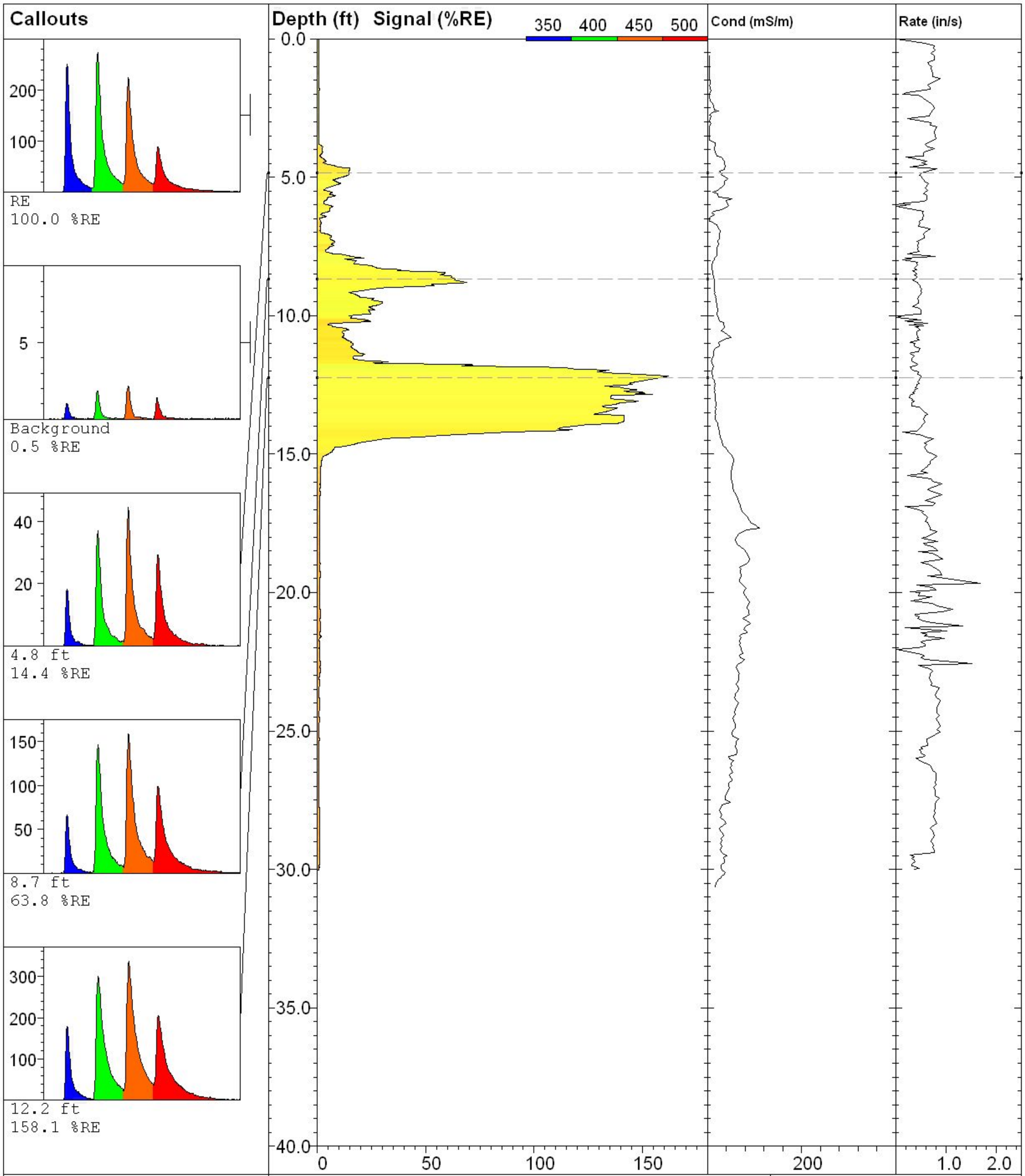
UVOST By Dakota
www.DakotaTechnologies.com

Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **36.43 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **236.3 % @ 10.59 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-25 08:49 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-046**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.03 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **257.1 % @ 12.33 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-25 10:15 CDT**

UVOST LOGS
@ Best Fit Scale



LIF-36-001		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.02 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **162.2 % @ 12.18 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-17 15:35 CDT**

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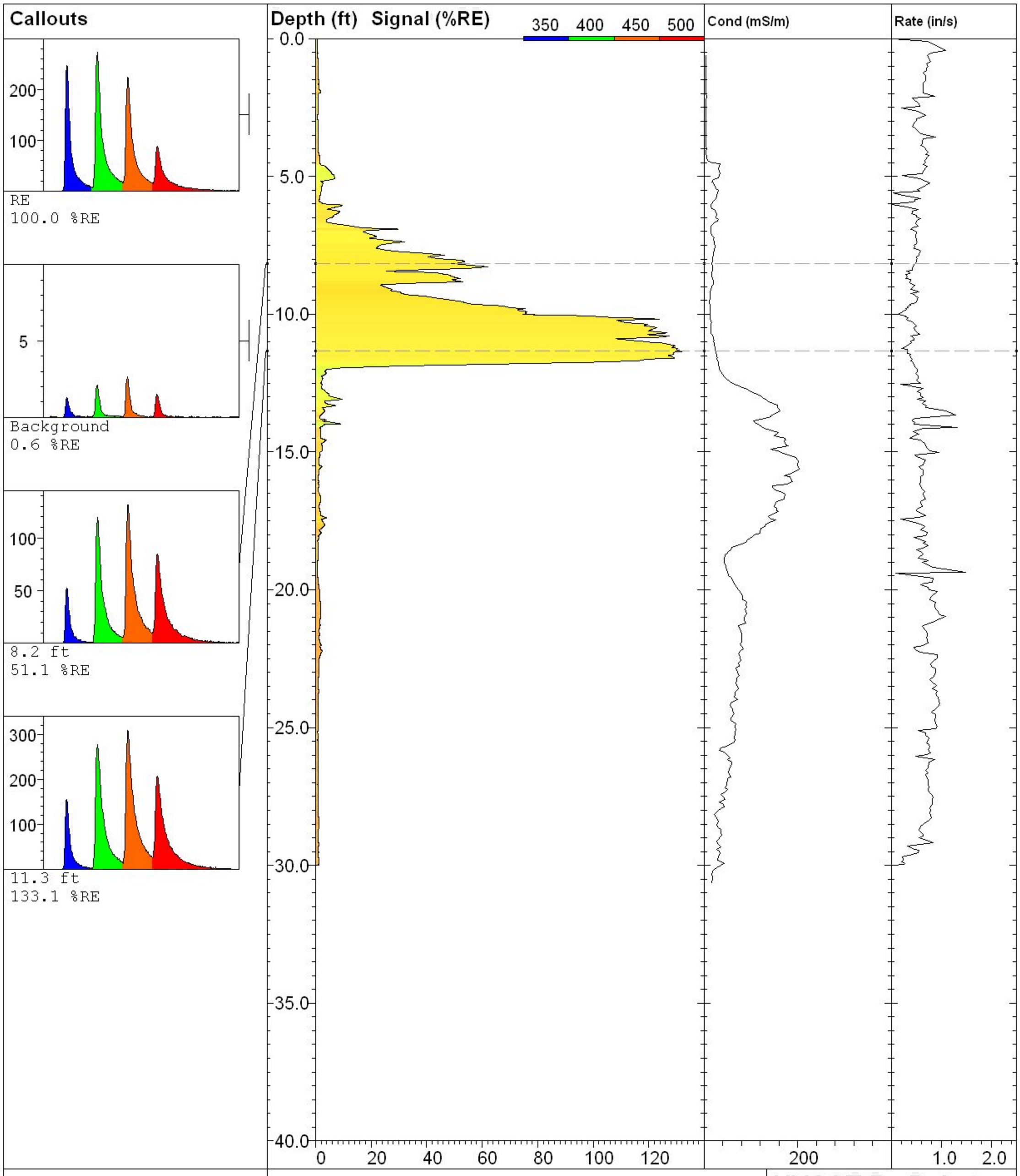

LIF-36-002		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **133.1 % @ 11.34 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-17 16:22 CDT**

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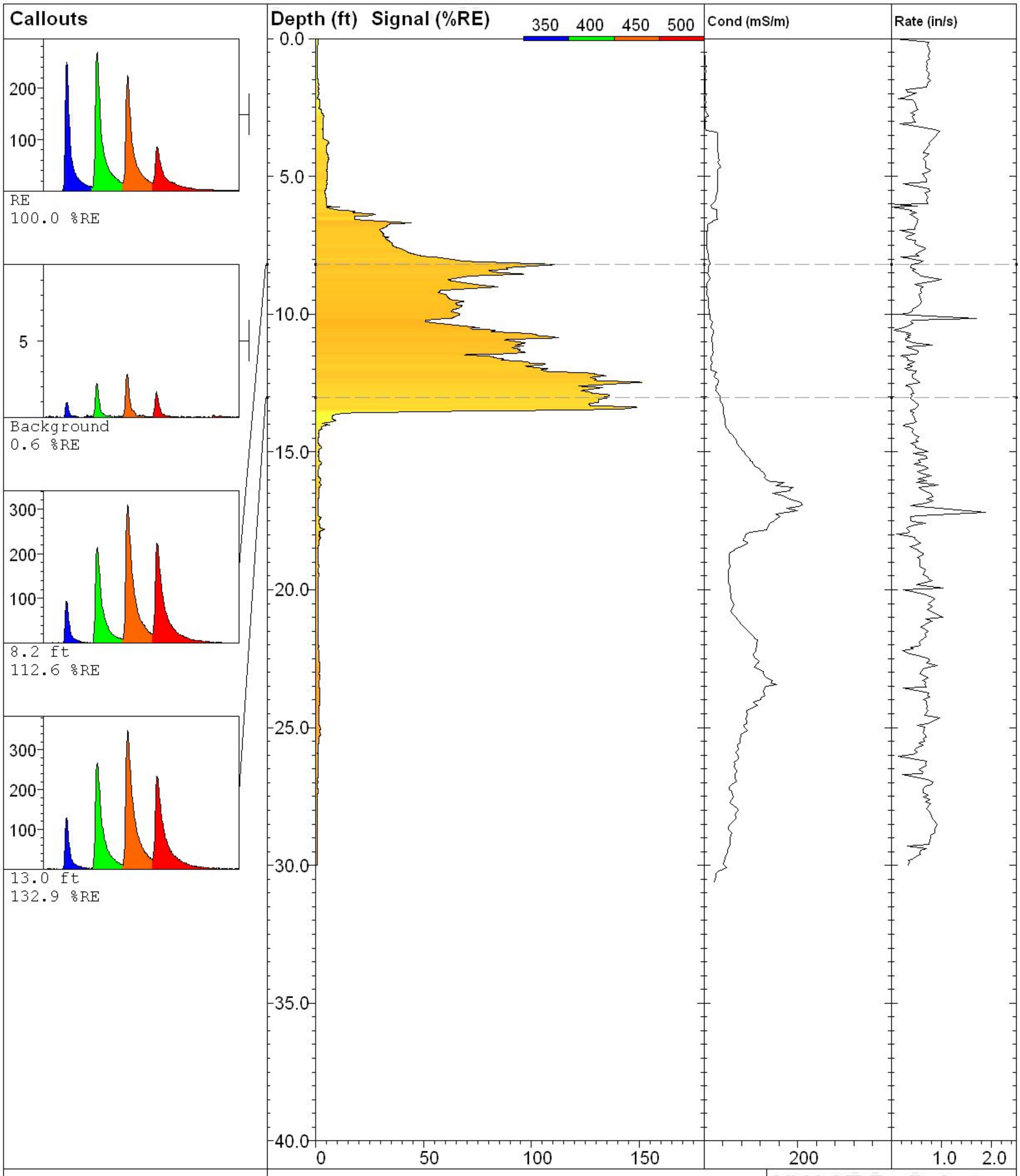
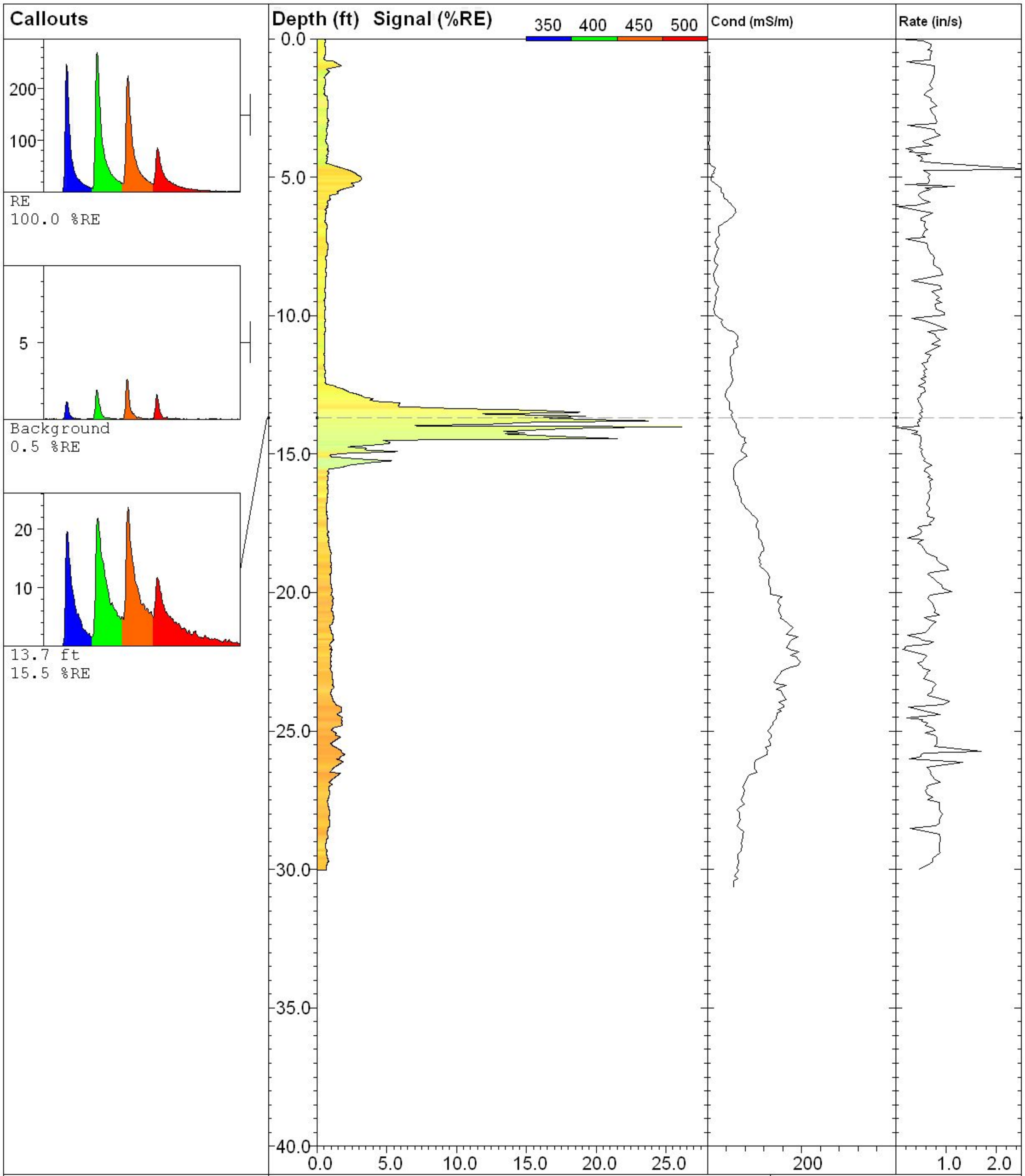
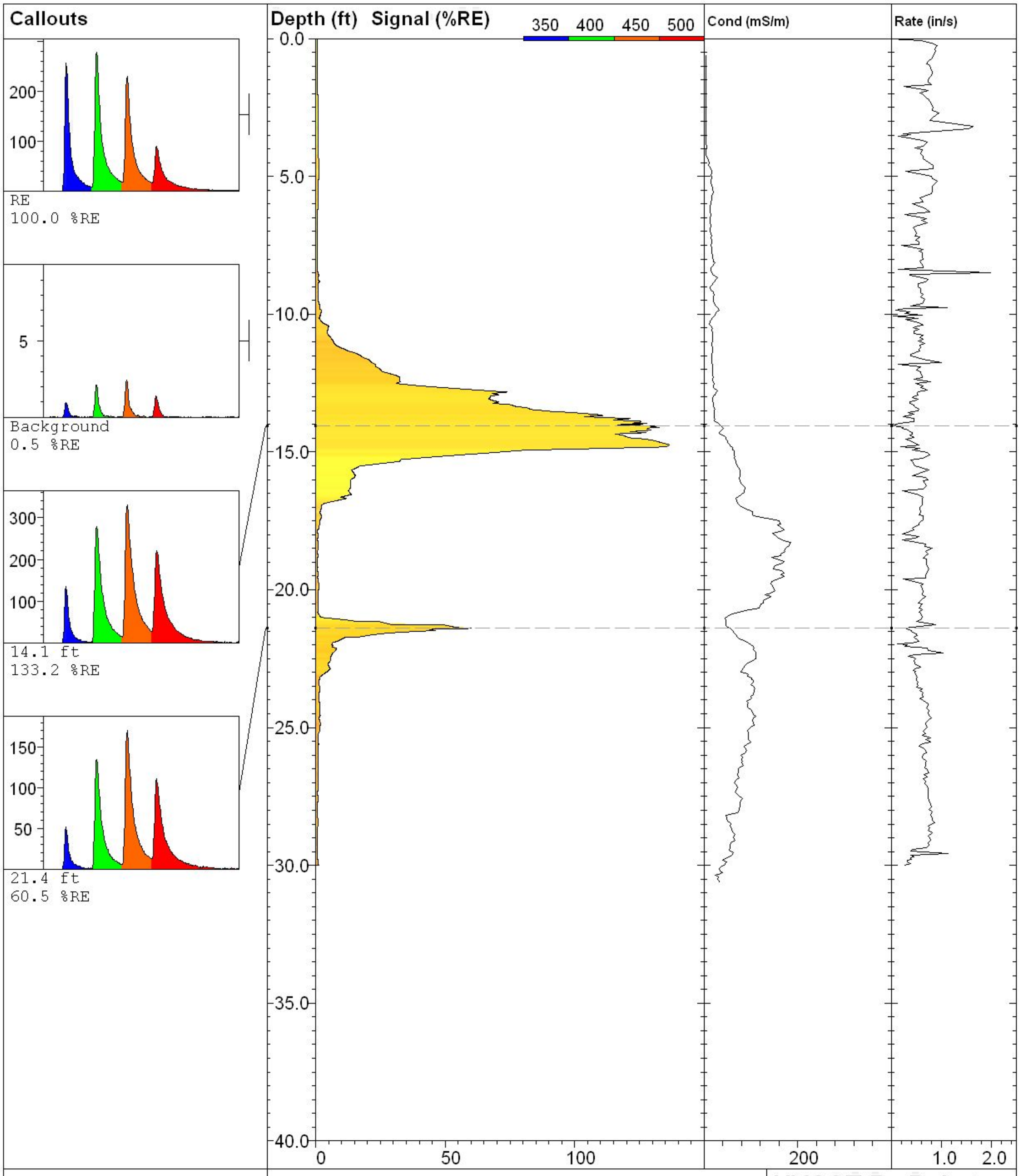


LIF-36-003		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **151.4 % @ 12.47 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-18 08:04 CDT**

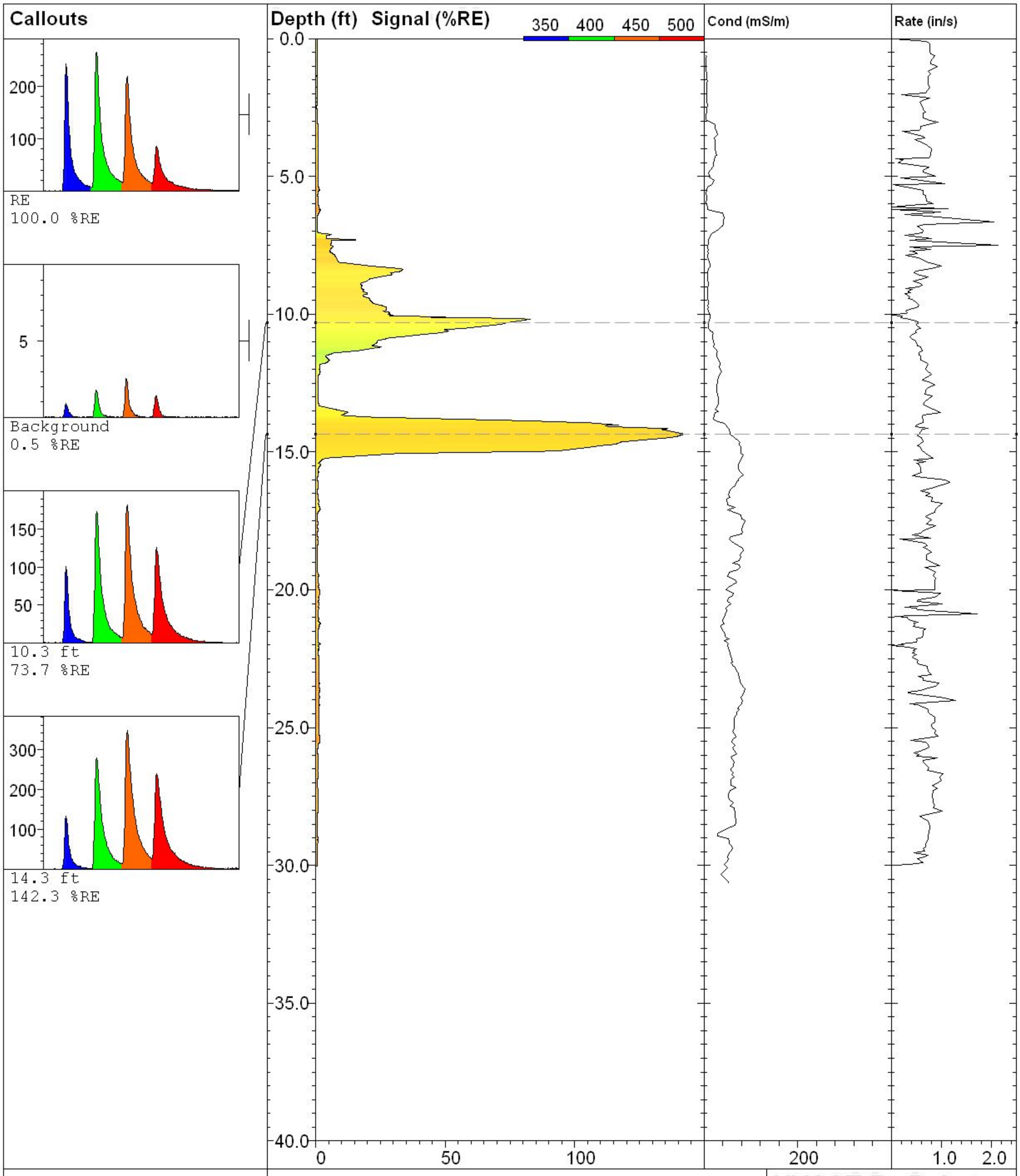
MATRIX ENVIRONMENTAL LLC
www.matrixenv.com



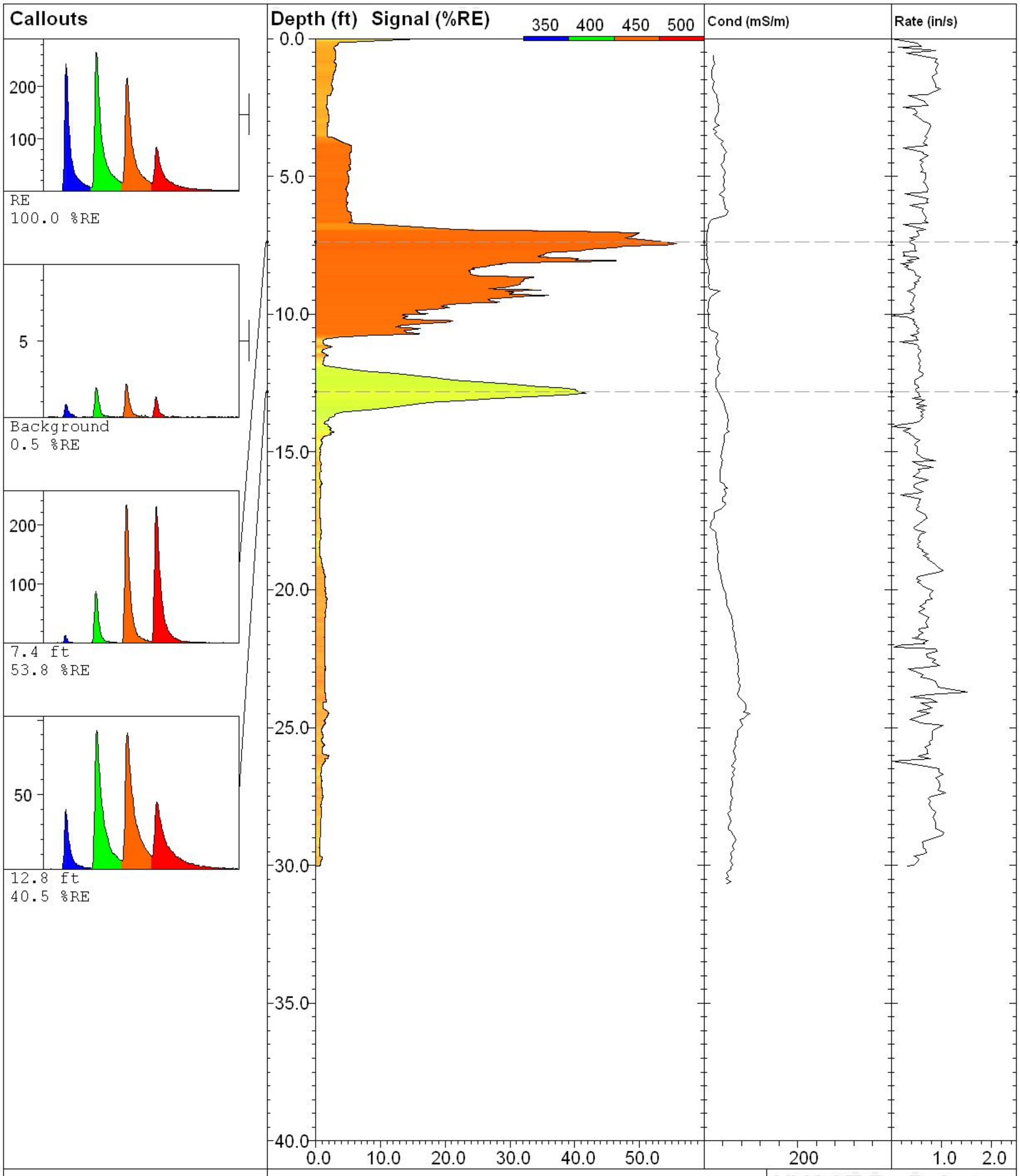
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-004**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.03 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **26.5 % @ 14.01 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-18 08:48 CDT**



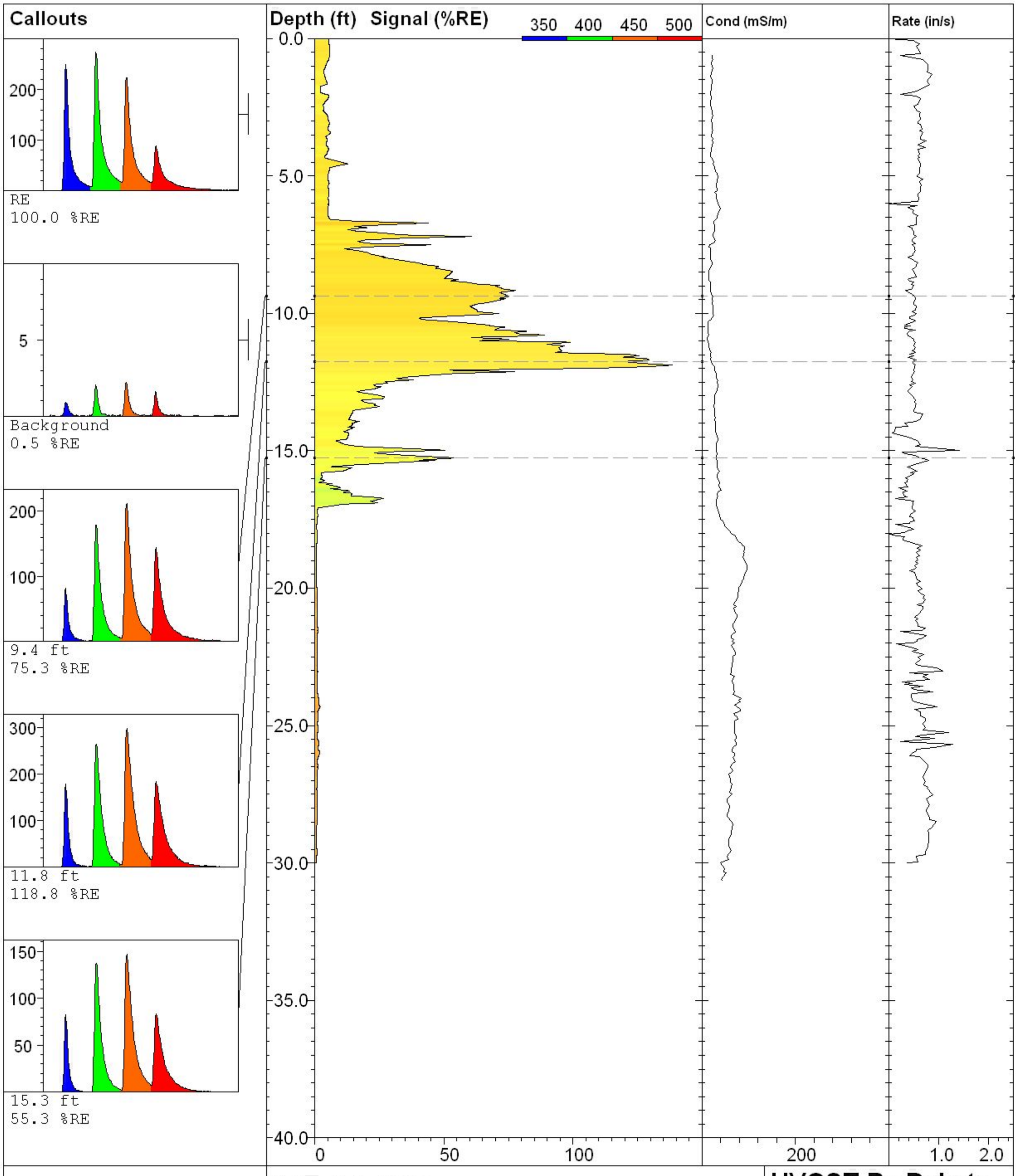
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-005**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **136.5 % @ 14.73 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-18 09:28 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-006**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **142.3 % @ 14.35 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-18 10:07 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-007**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.03 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **55.7 % @ 7.44 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-18 10:53 CDT**



LIF-36-008		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **138.7 % @ 11.88 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-18 13:18 CDT**

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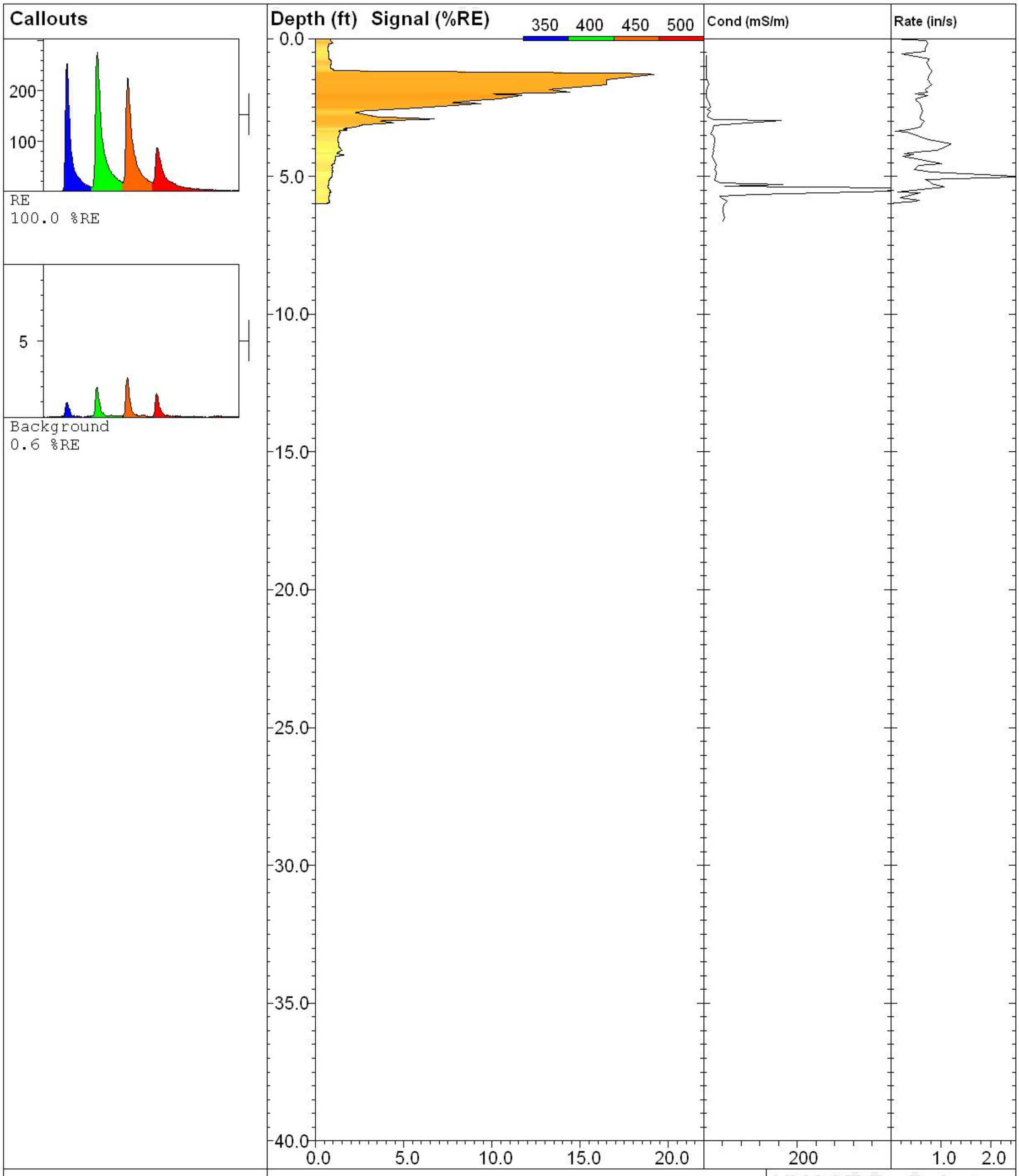
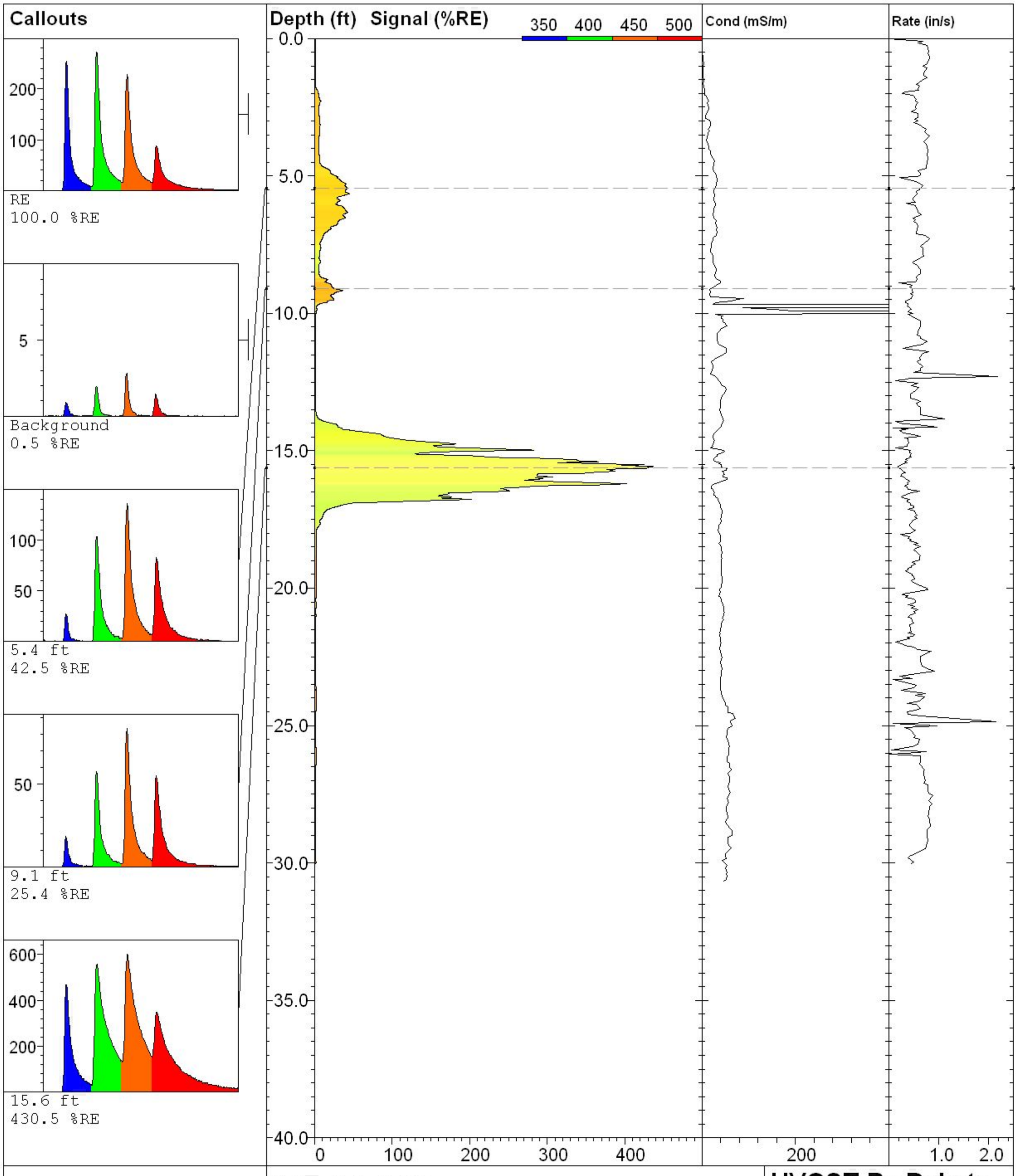


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-009**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **5.99 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **19.2 % @ 1.30 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-18 16:25 CDT**



LIF-36-010		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.03 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **437.0 % @ 15.56 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-19 07:20 CDT**

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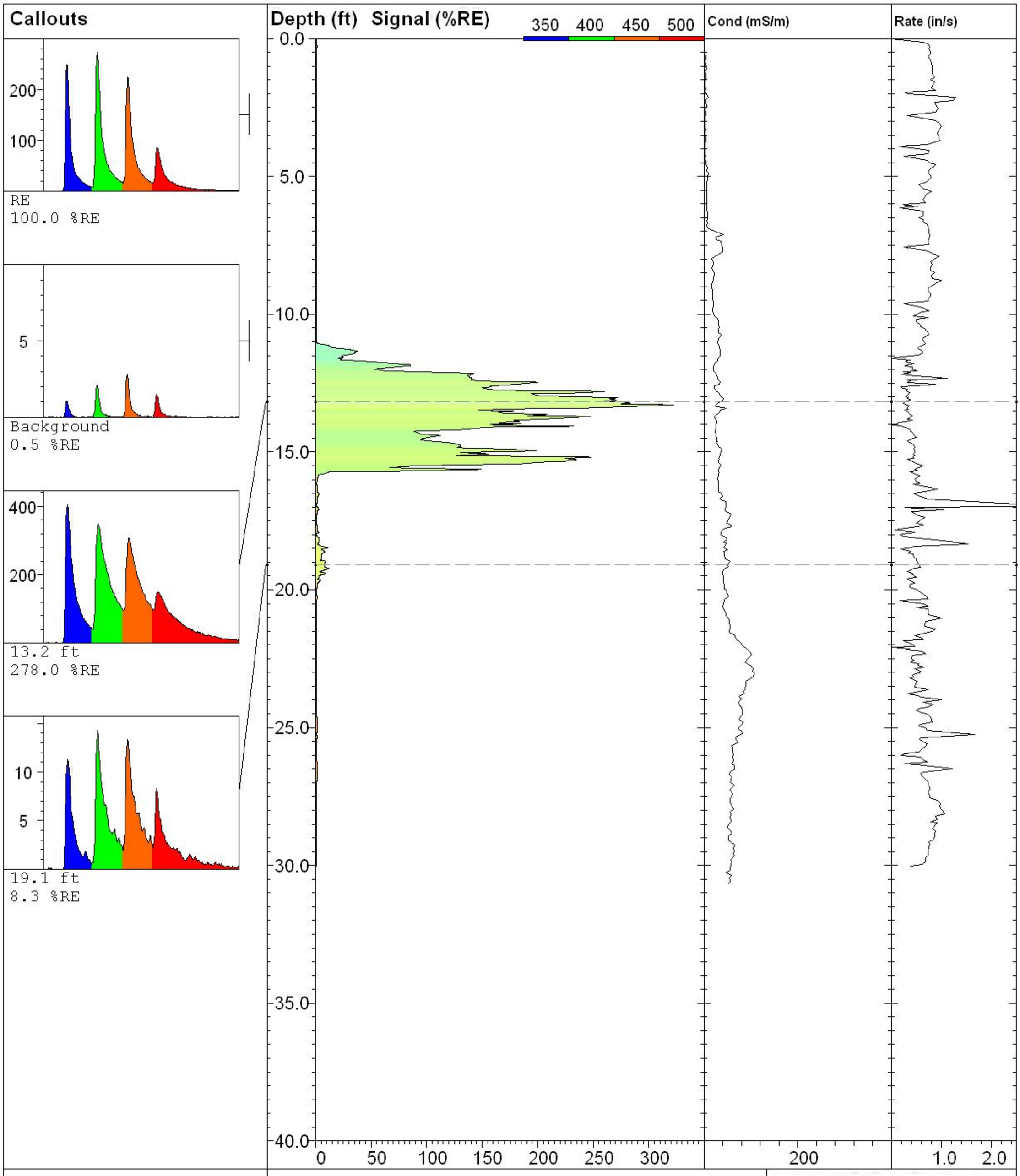
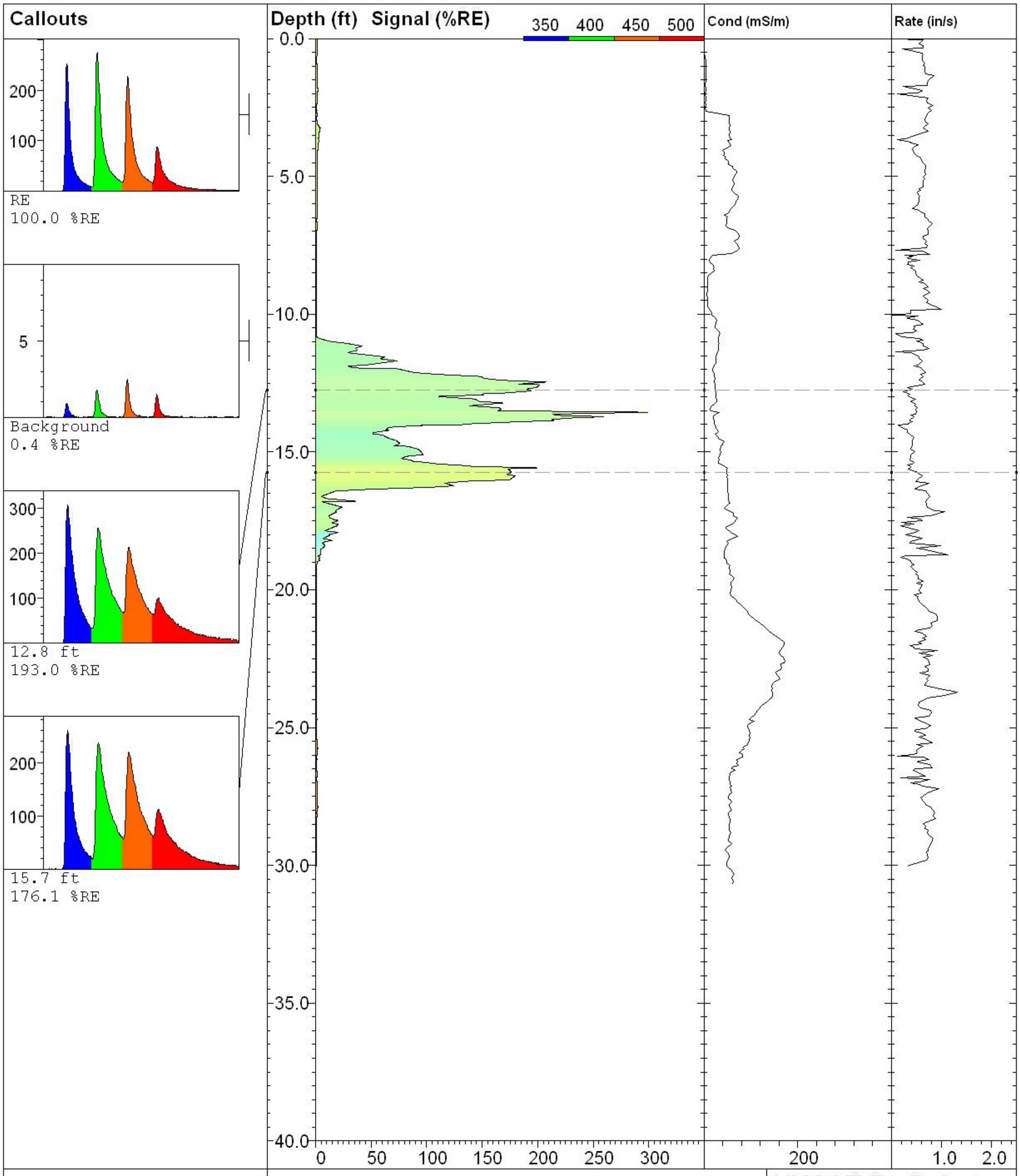
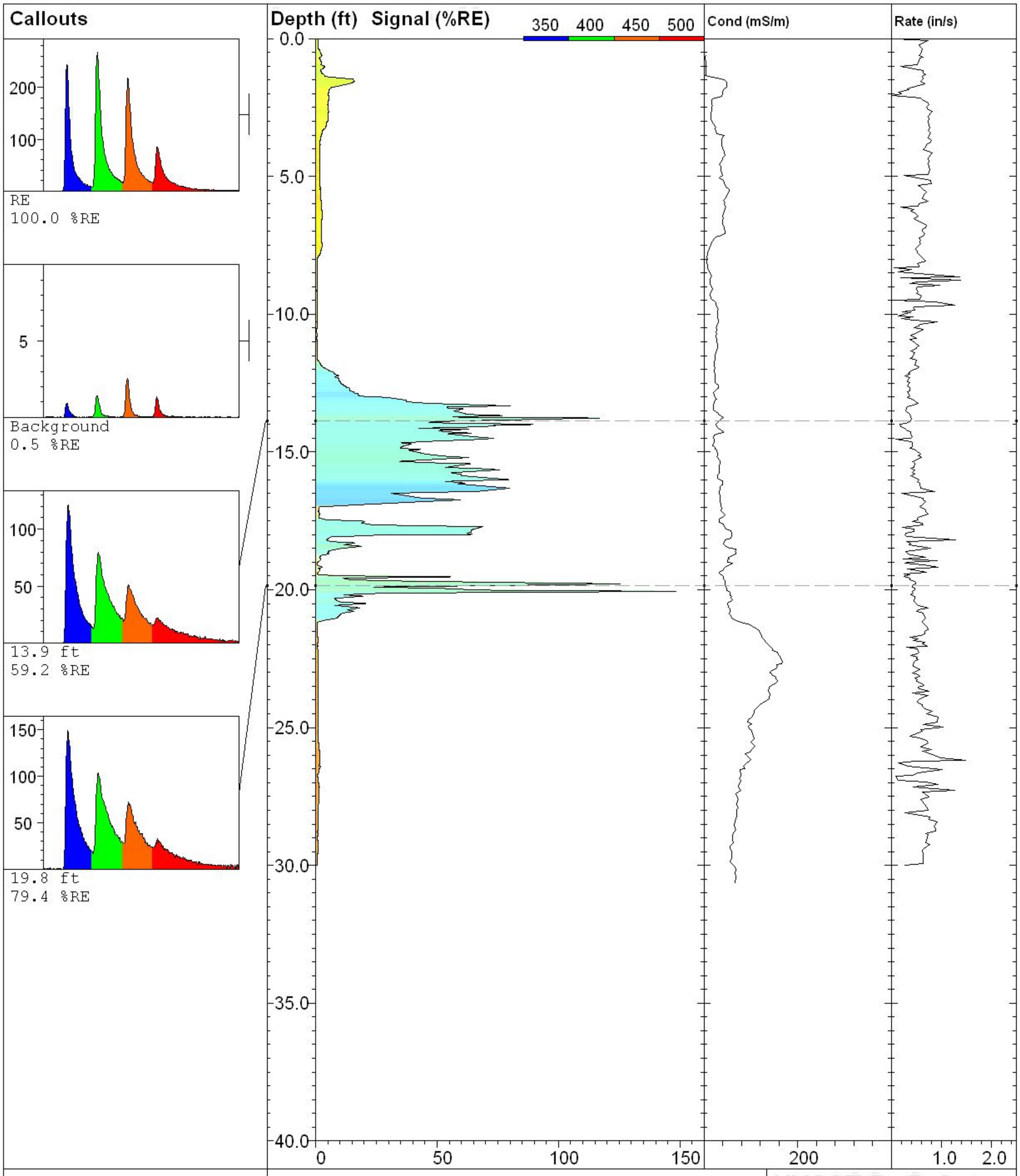


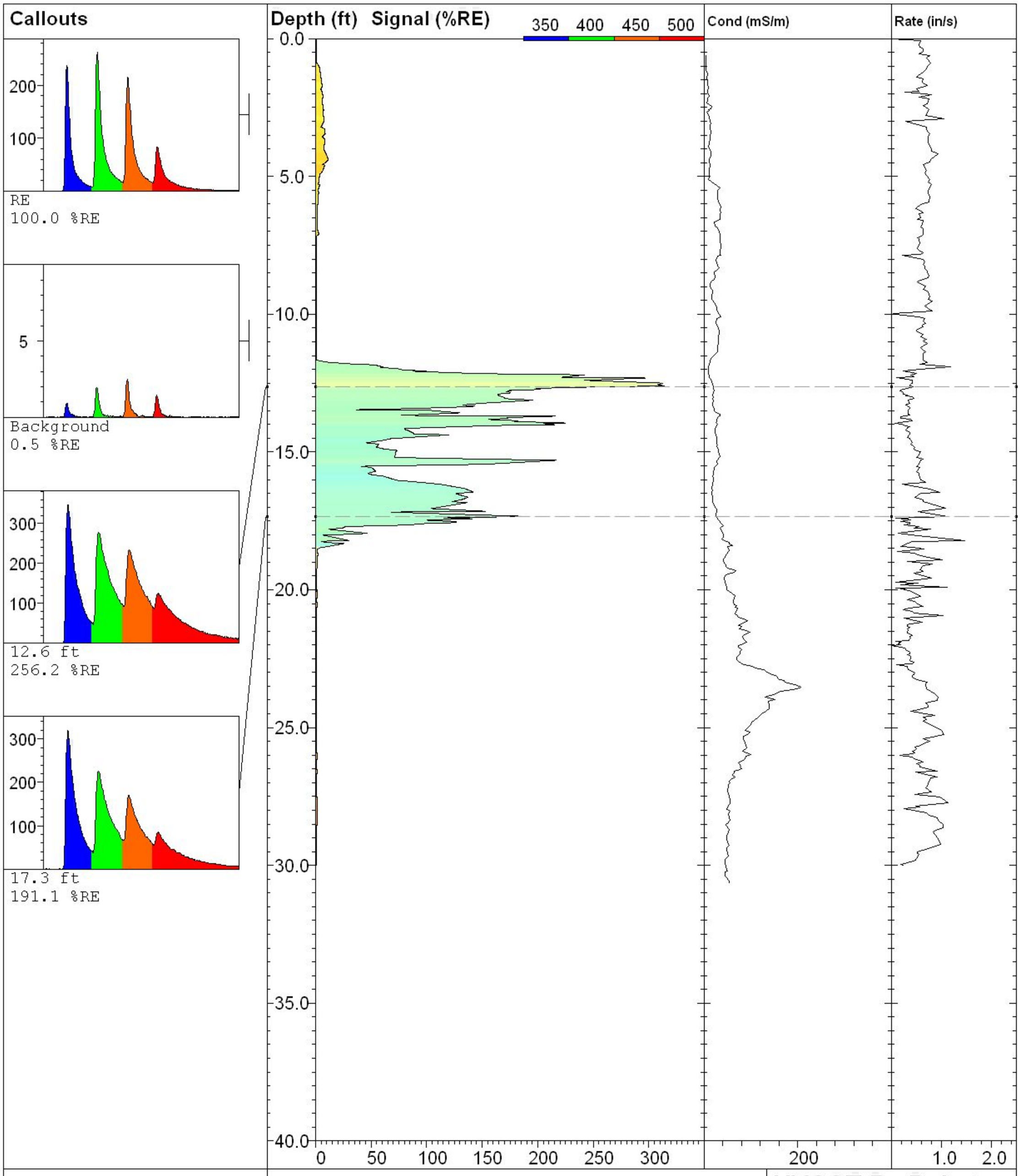
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-011**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.03 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **322.8 % @ 13.29 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-19 08:09 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-012**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.03 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **302.3 % @ 13.56 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-19 08:49 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-013**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **149.5 % @ 20.06 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-19 09:28 CDT**



LIF-36-014		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **314.2 % @ 12.60 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-19 10:11 CDT**

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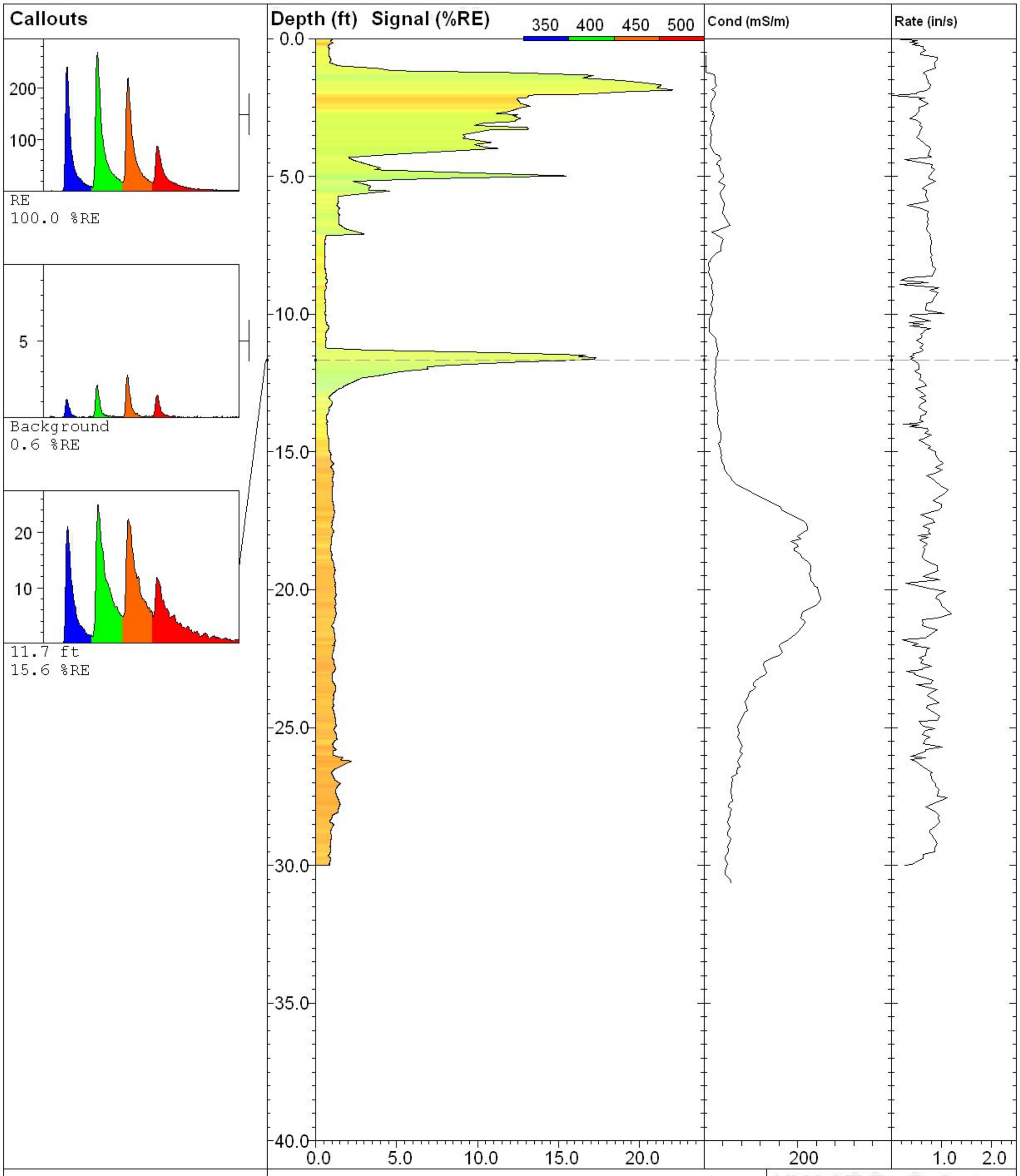
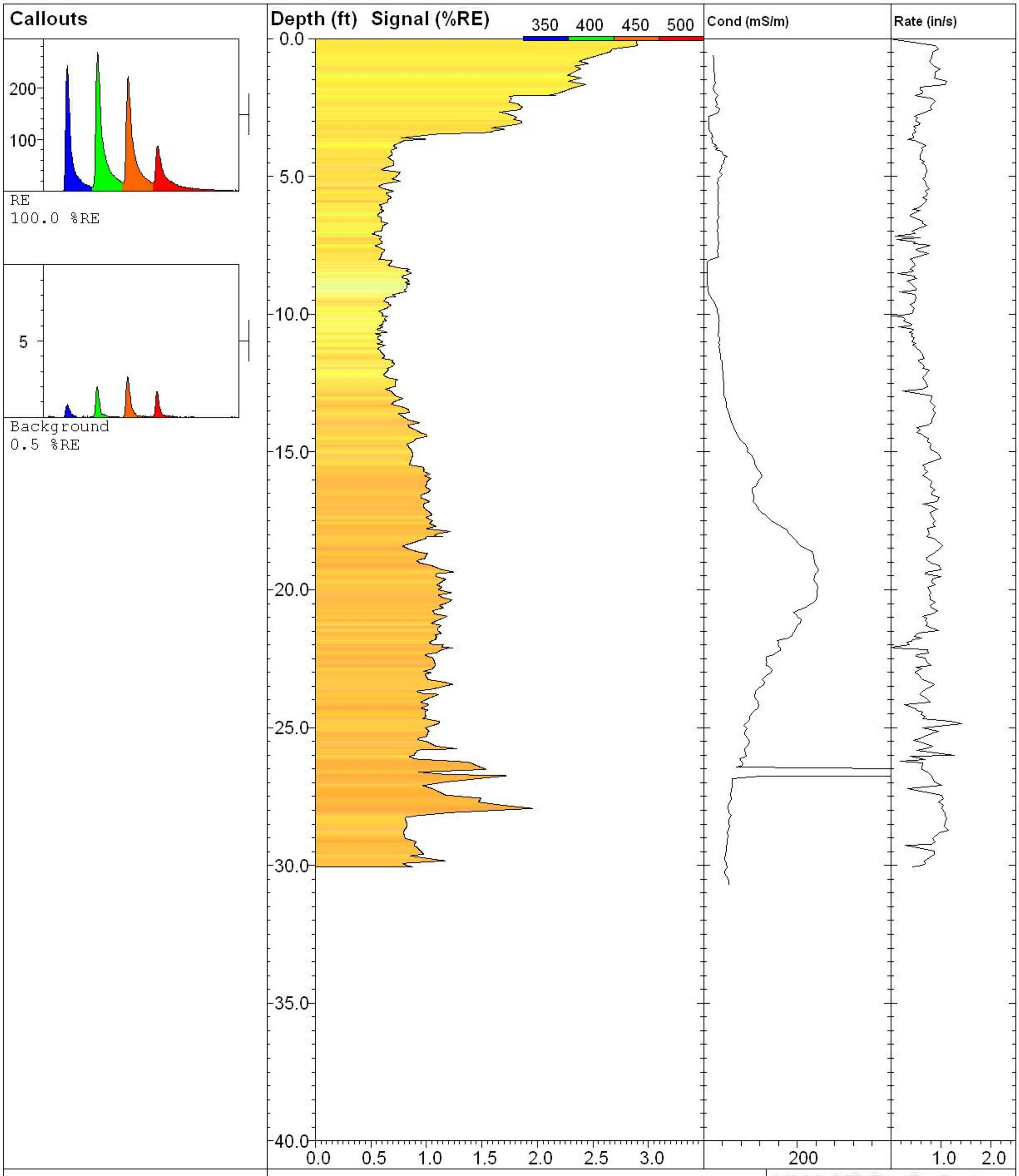


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-015**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **22.1 % @ 1.87 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-19 10:56 CDT**



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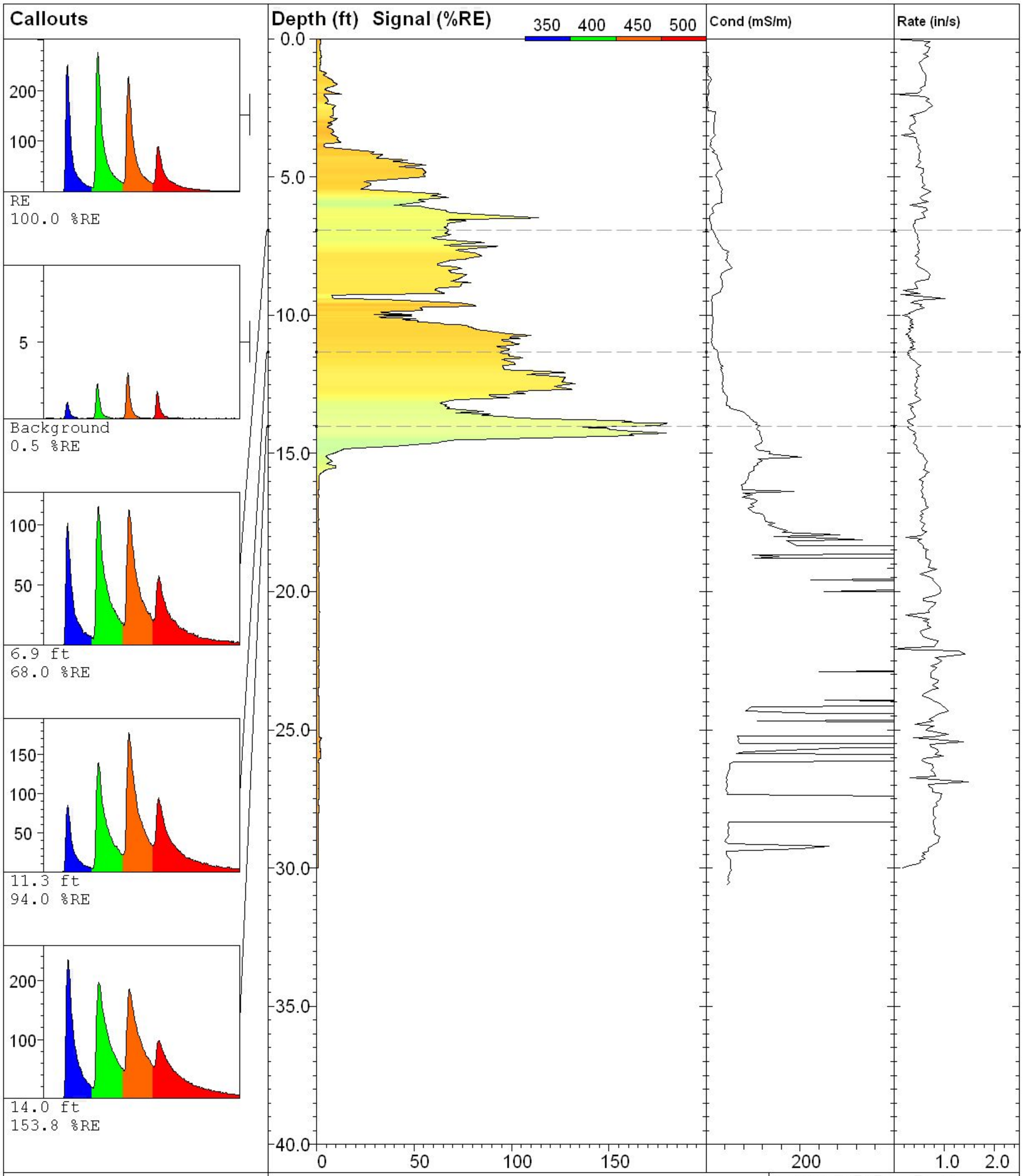
LIF-36-016

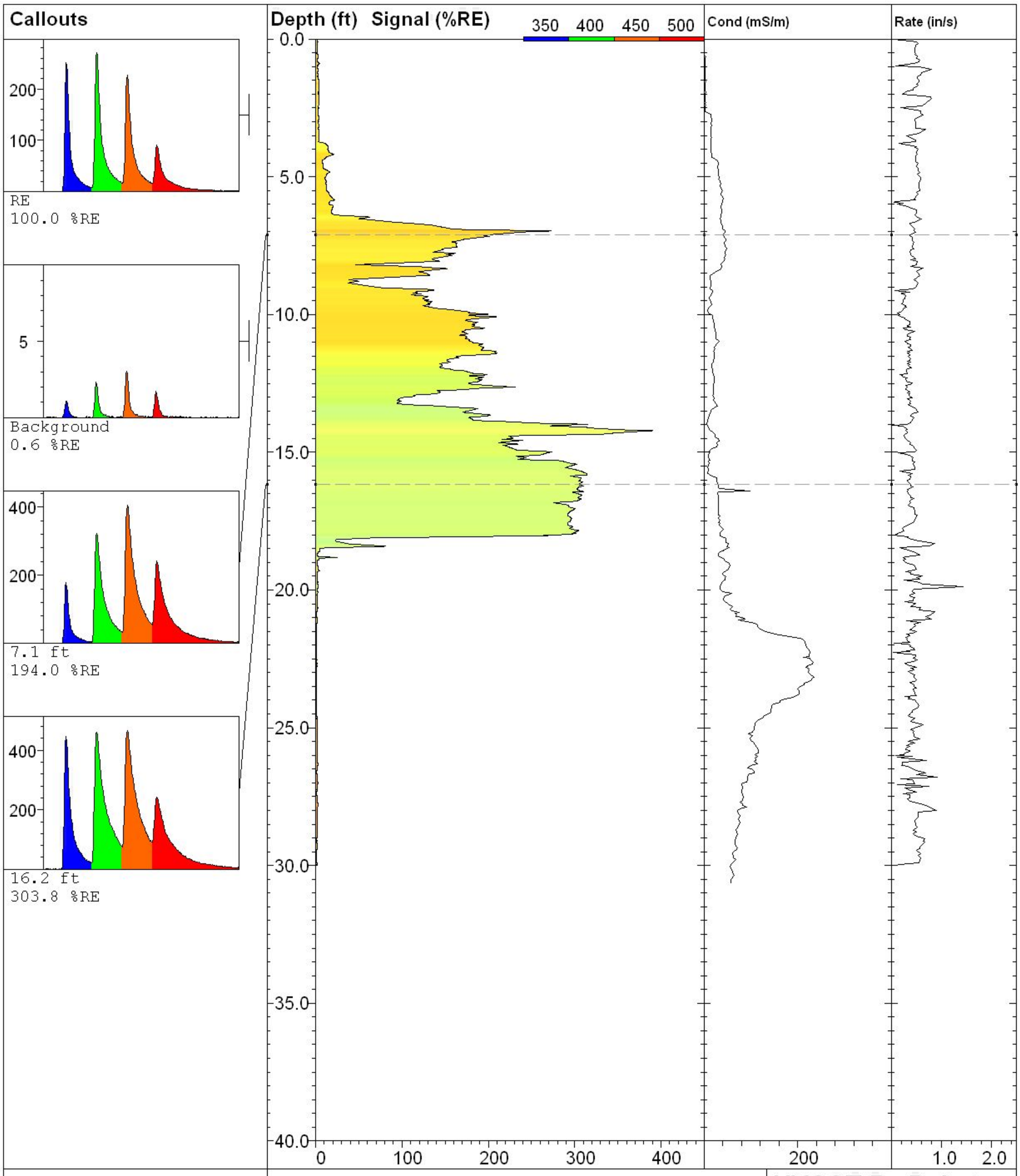
UVOST By Dakota
www.DakotaTechnologies.com

Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.05 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **3.0 % @ 0.00 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-19 13:55 CDT**

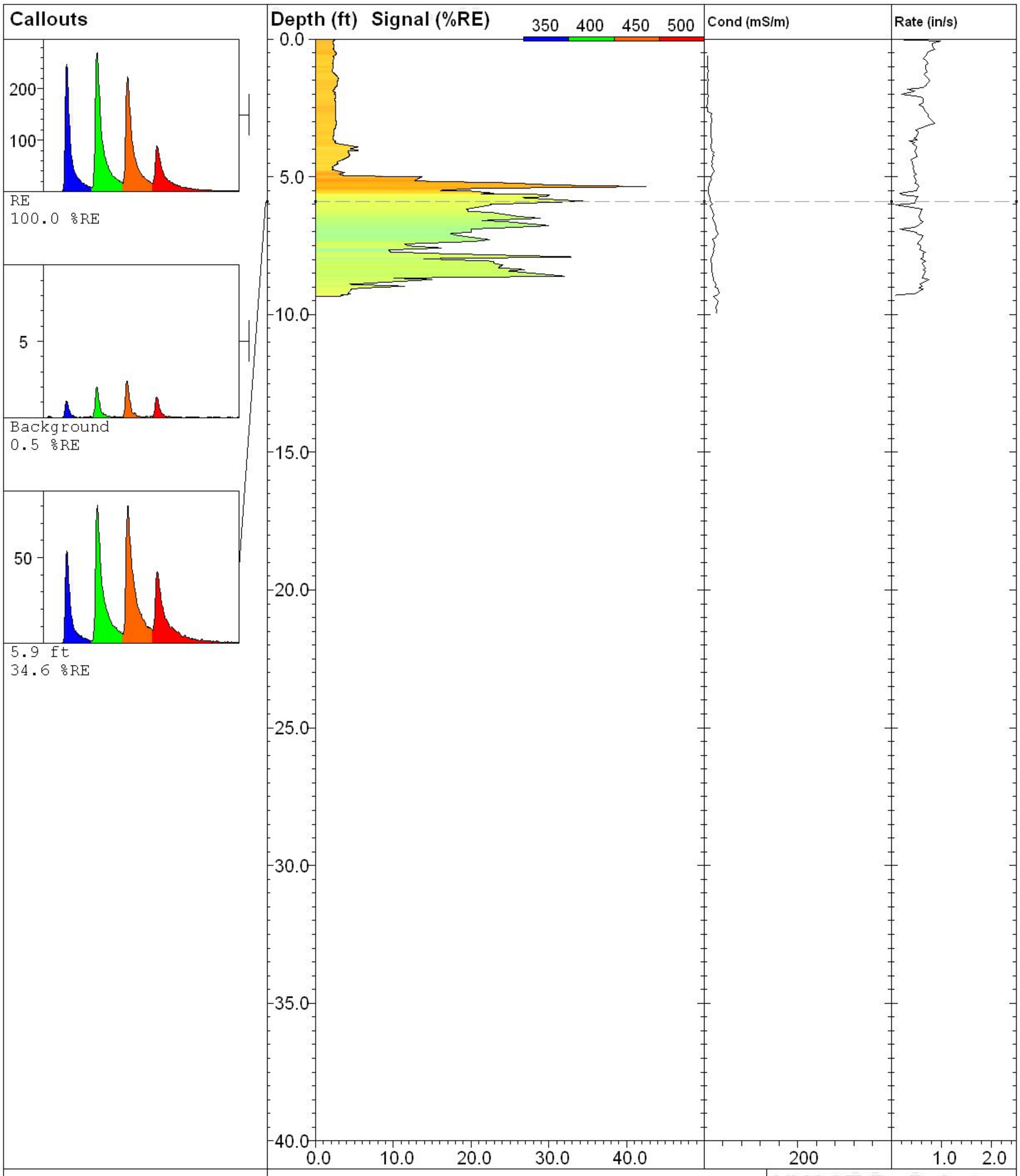


LIF-36-017		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **180.4 % @ 14.27 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-19 14:34 CDT**

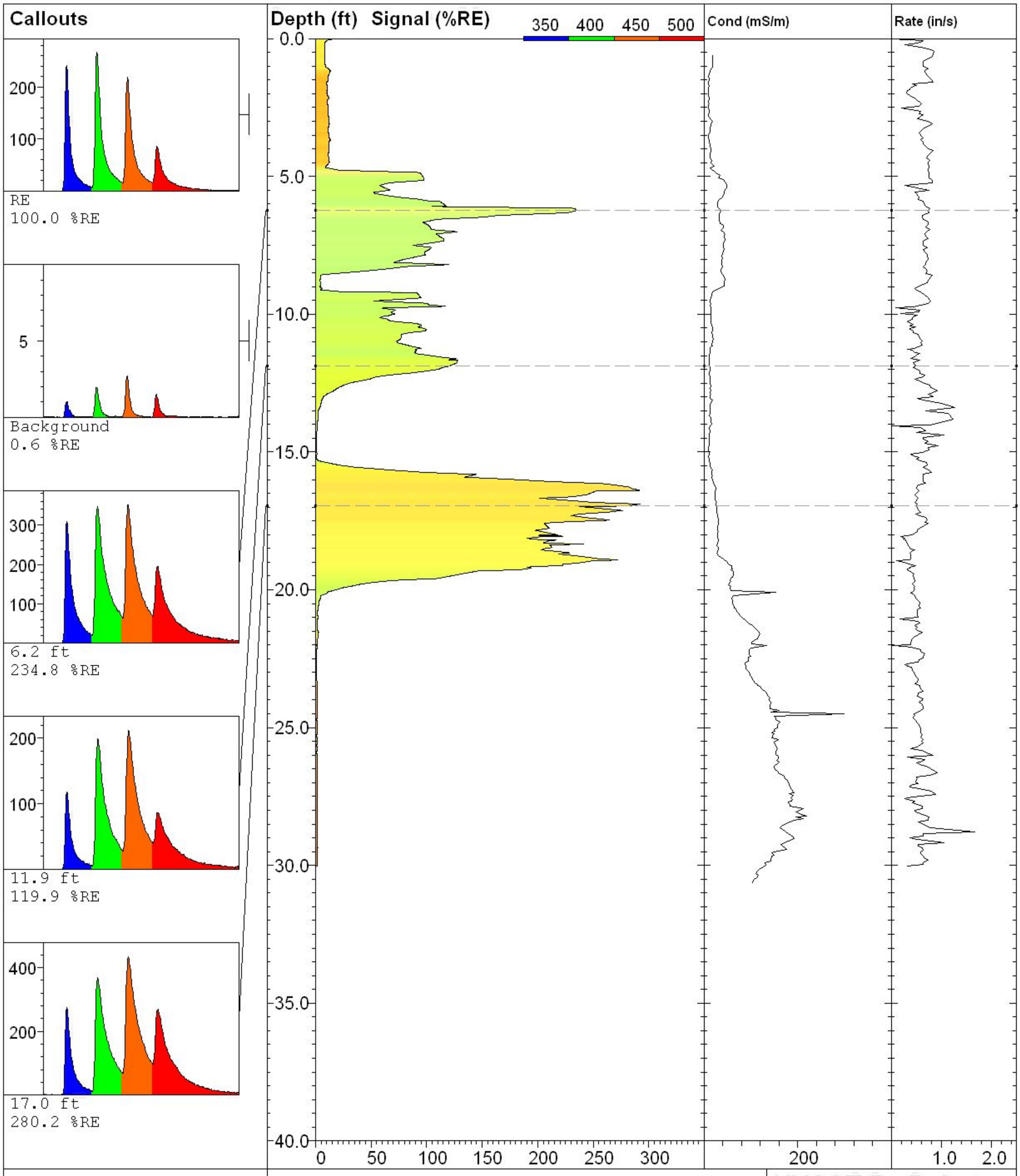
MATRIX ENVIRONMENTAL LLC
www.matrixenv.com



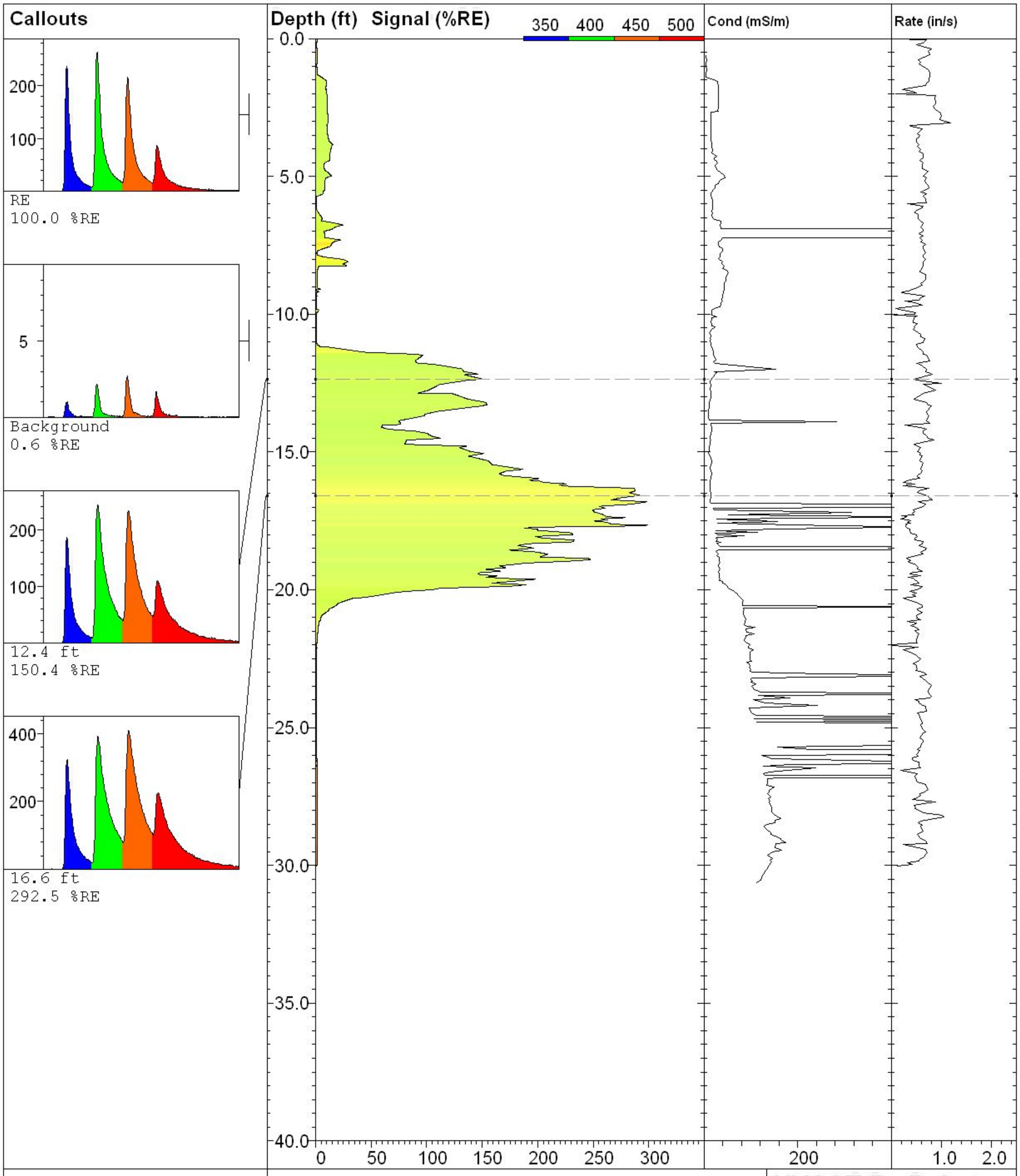
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-018**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **391.5 % @ 14.22 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-20 07:32 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-019**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **9.35 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **42.8 % @ 5.36 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-20 08:18 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-020**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **292.4 % @ 16.89 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-20 08:57 CDT**



LIF-36-021		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **300.0 % @ 17.65 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-20 09:58 CDT**

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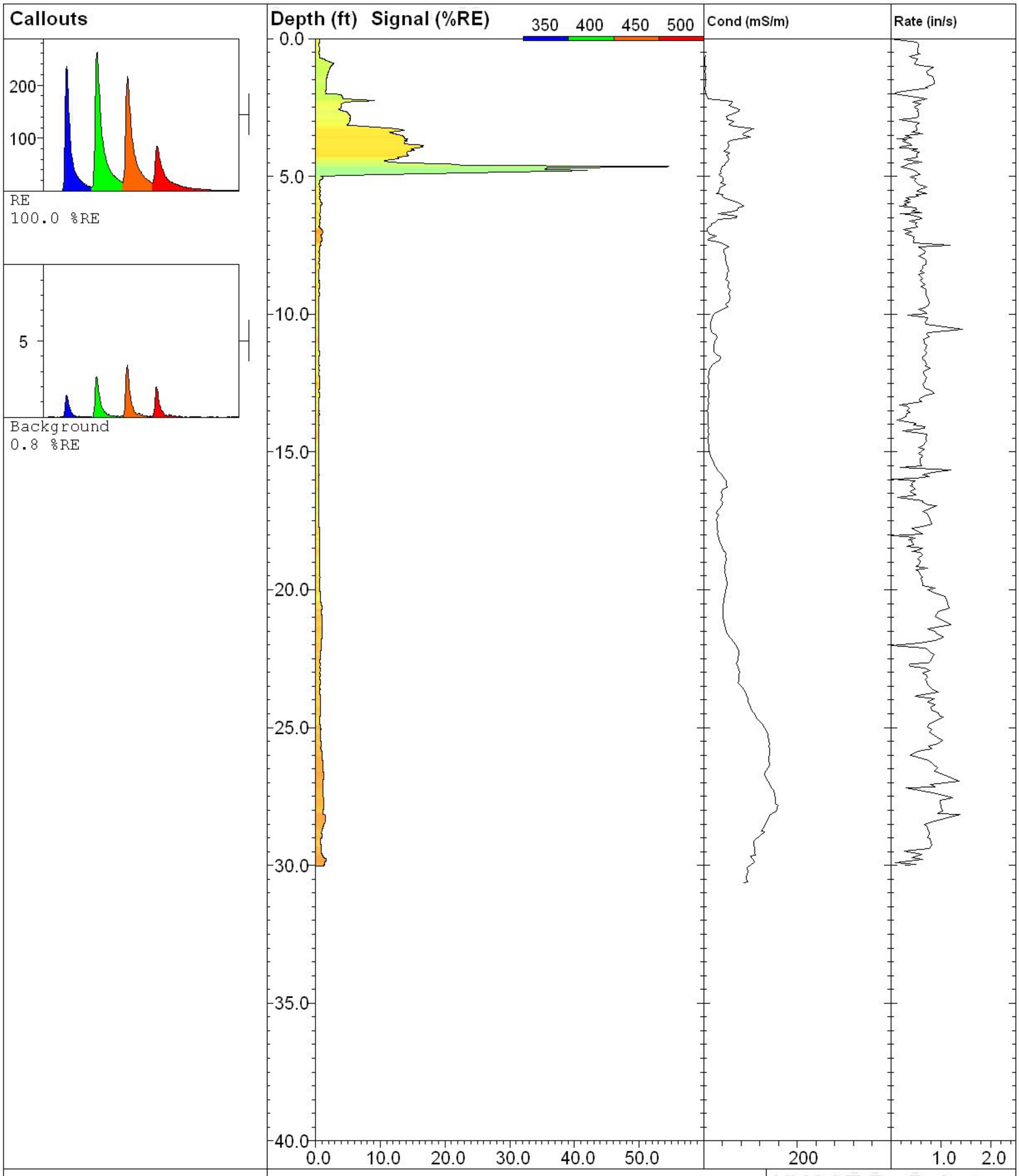
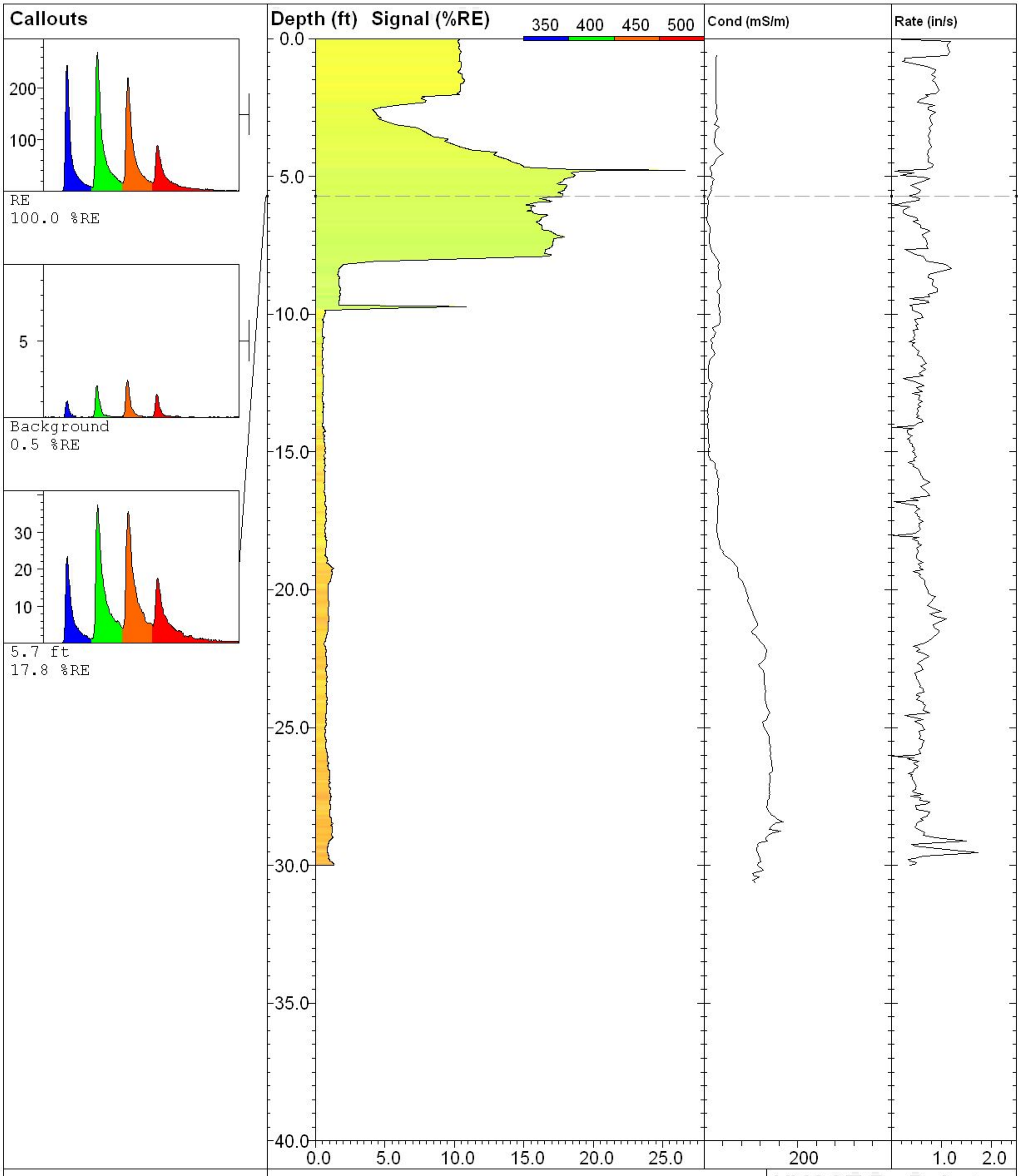
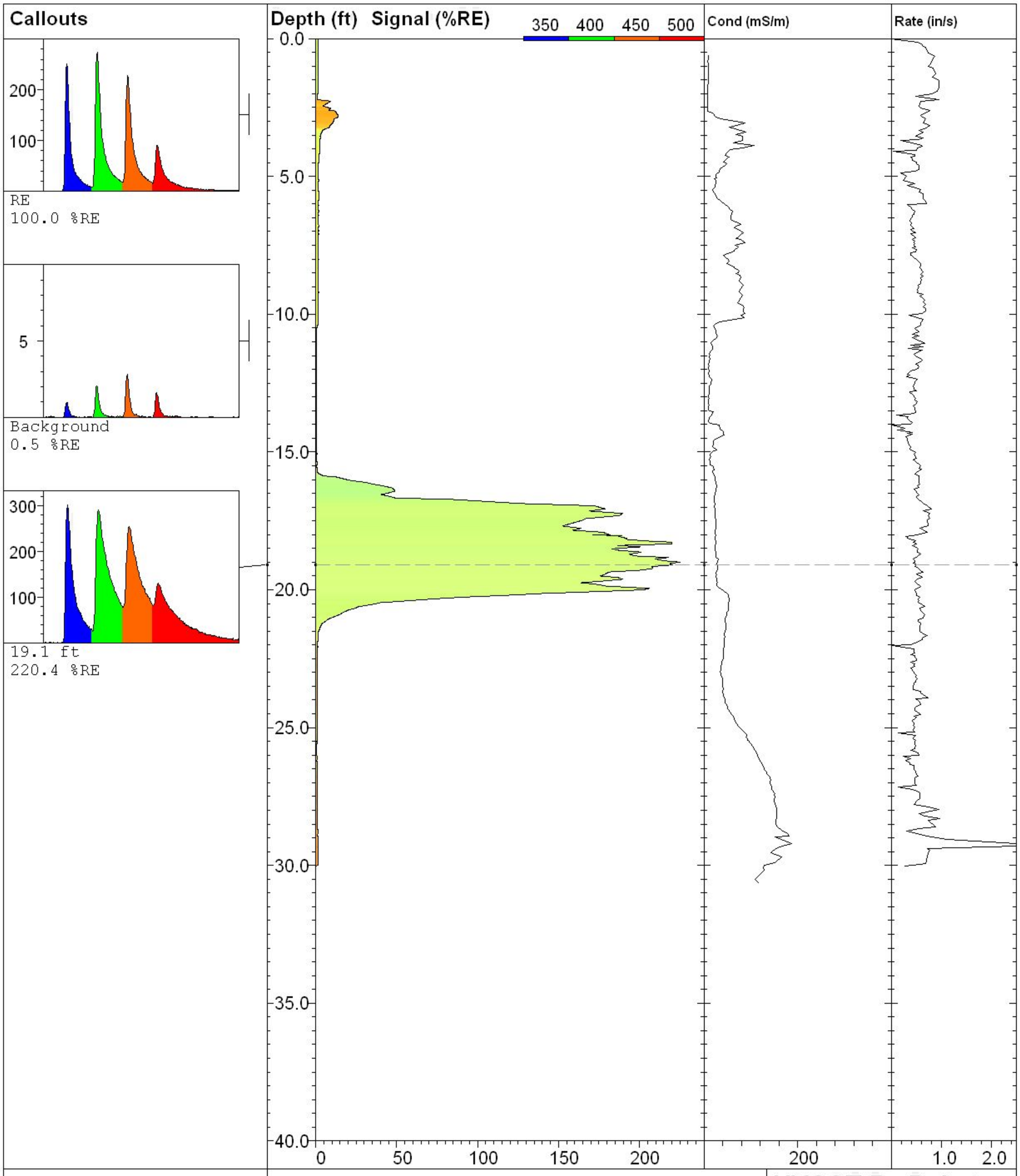
www.matrixenv.com



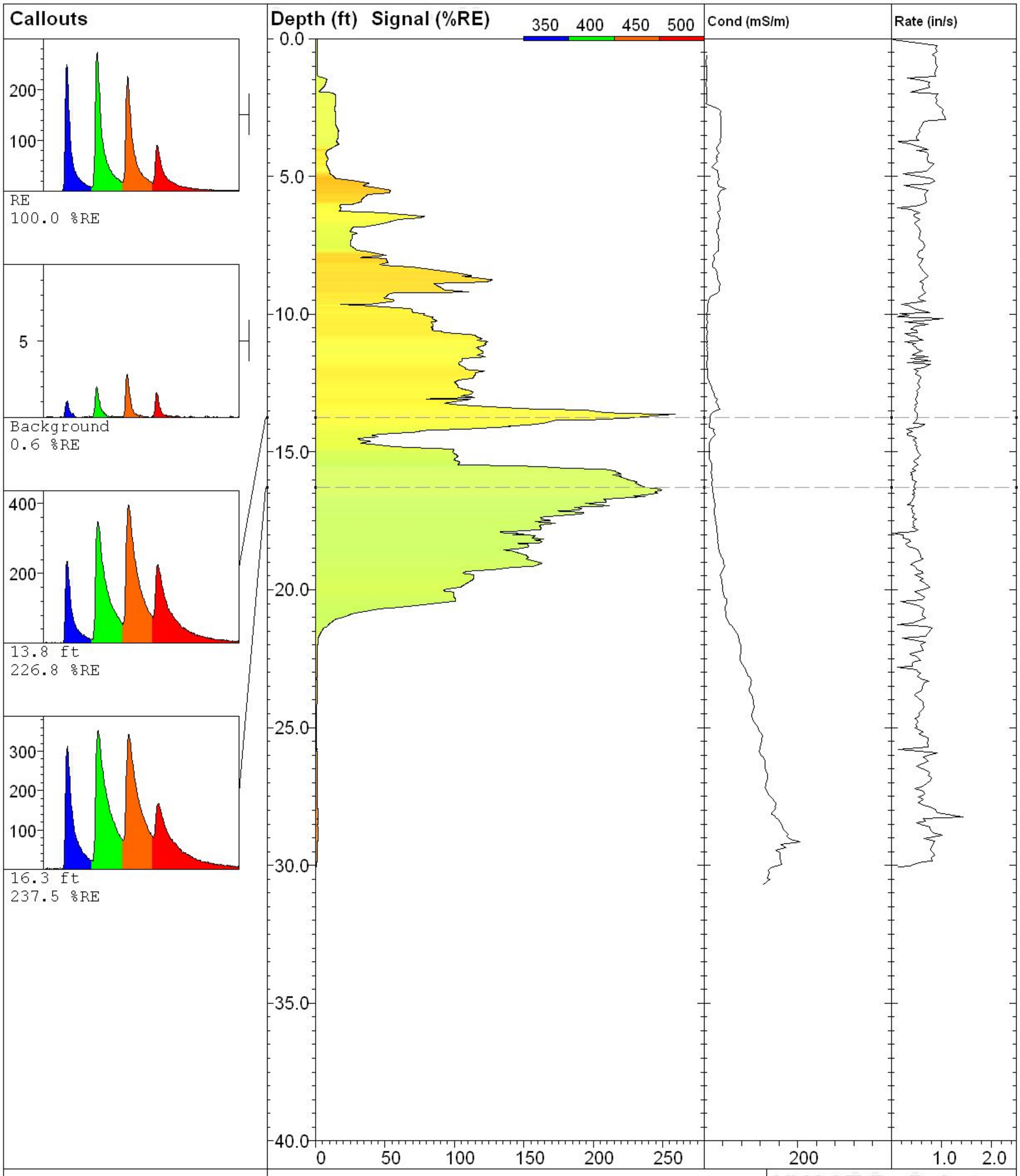
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-022**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.02 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **54.7 % @ 4.63 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-20 10:58 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-023**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **27.0 % @ 4.78 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-20 12:59 CDT**

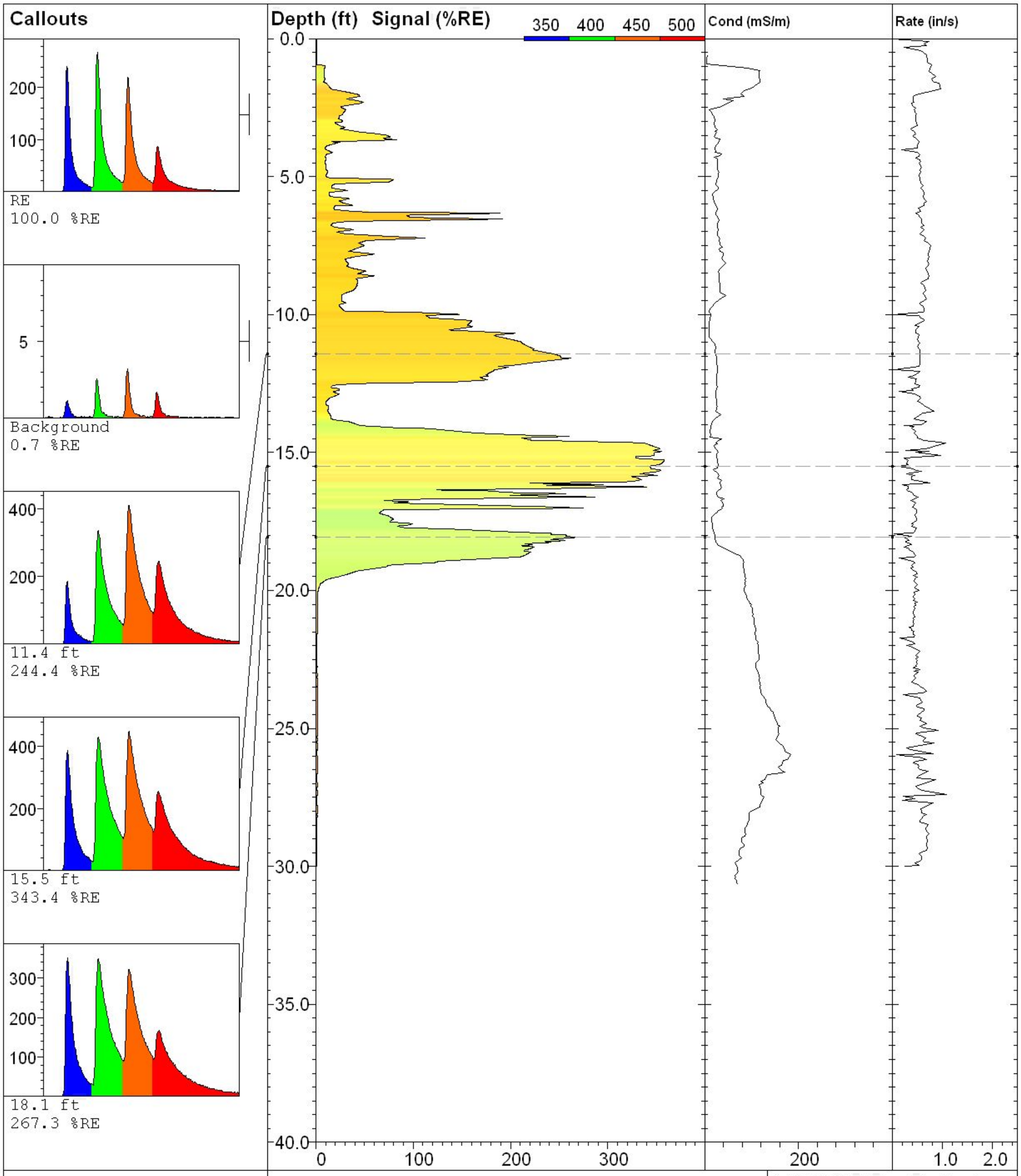


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-024**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **225.2 % @ 19.00 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-20 13:42 CDT**



LIF-36-025		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.06 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **259.9 % @ 13.62 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-20 14:25 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

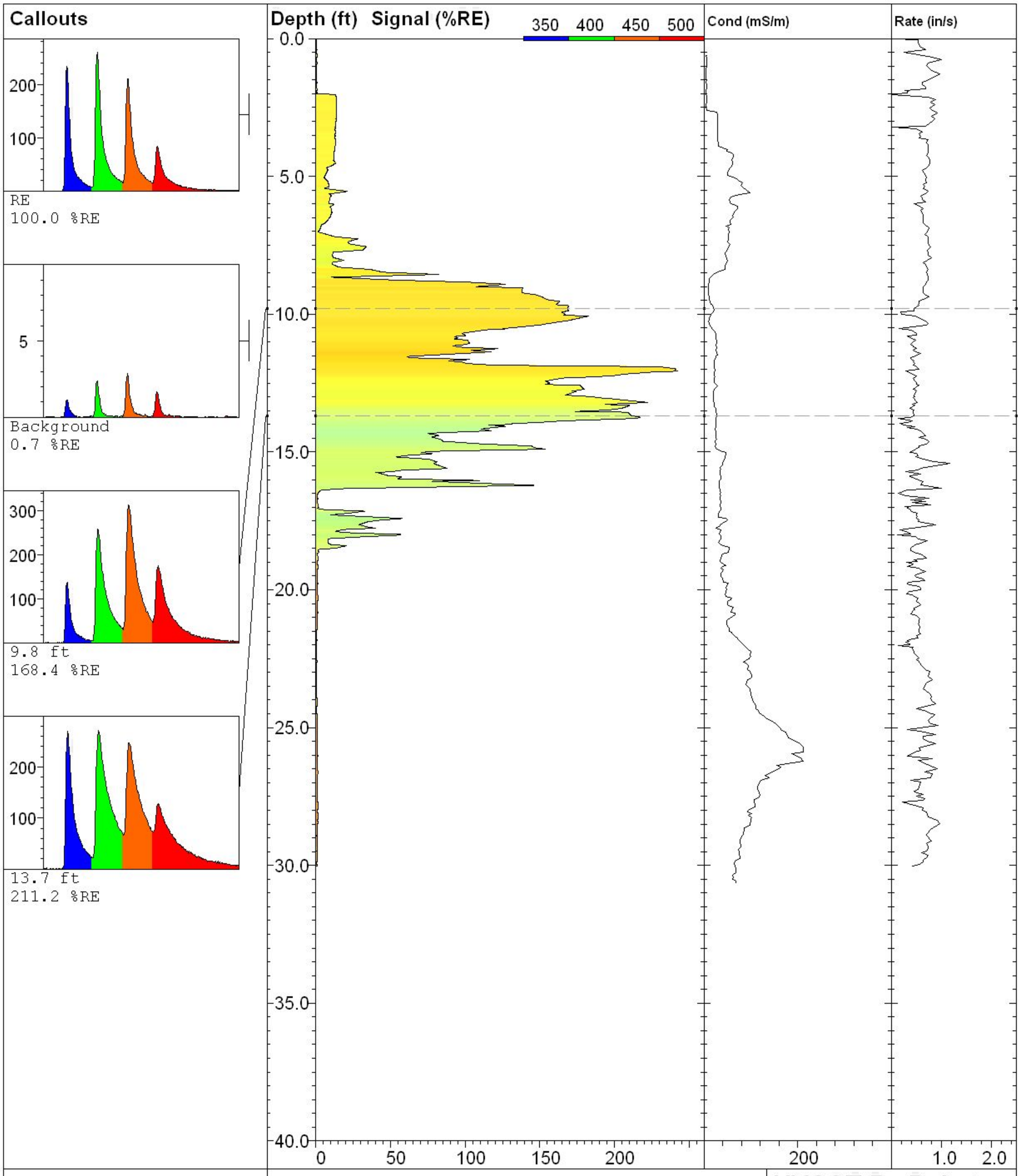


LIF-36-026

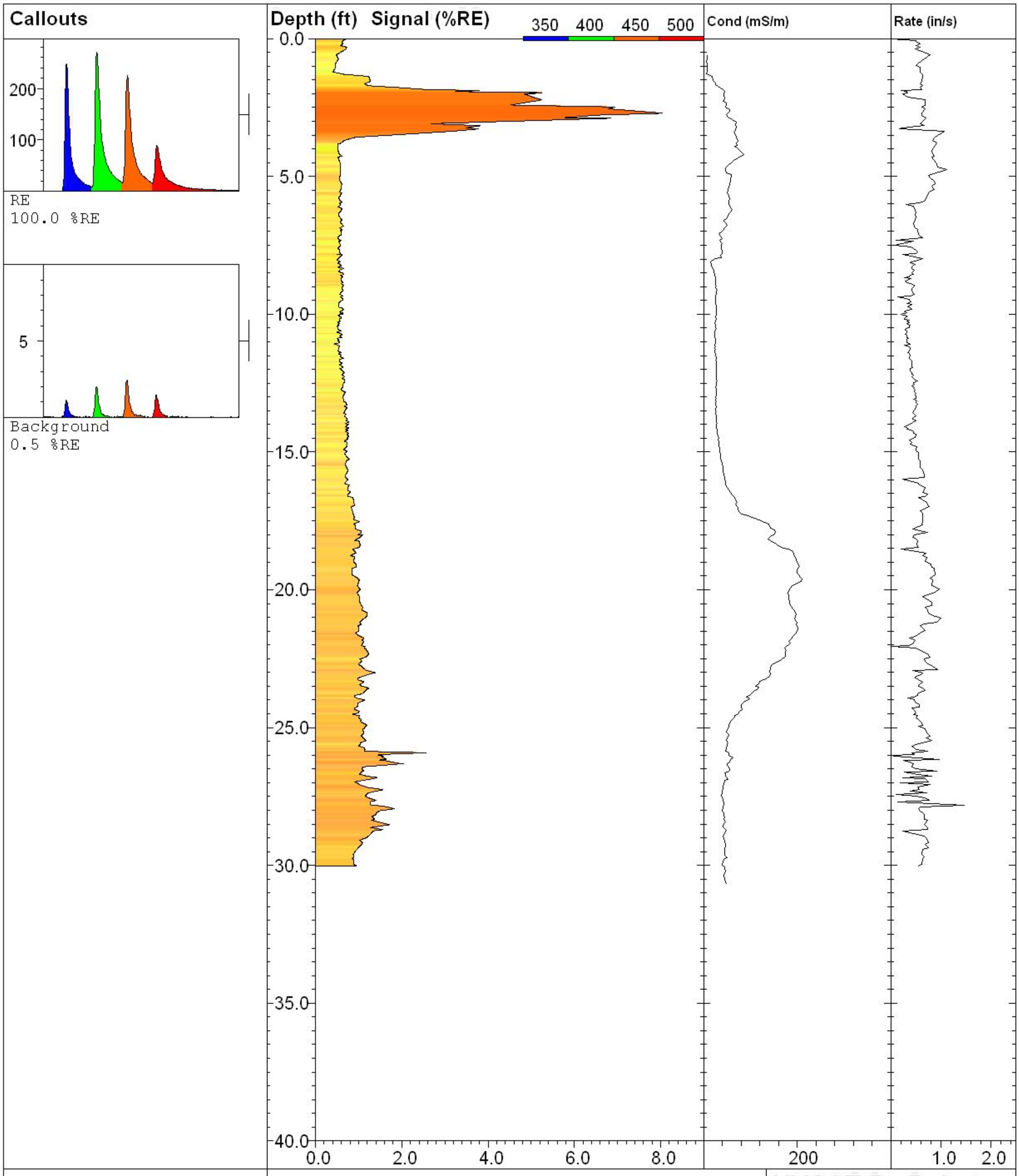
UVOST By Dakota
www.DakotaTechnologies.com

Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **29.99 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **358.6 % @ 15.27 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-20 15:07 CDT**

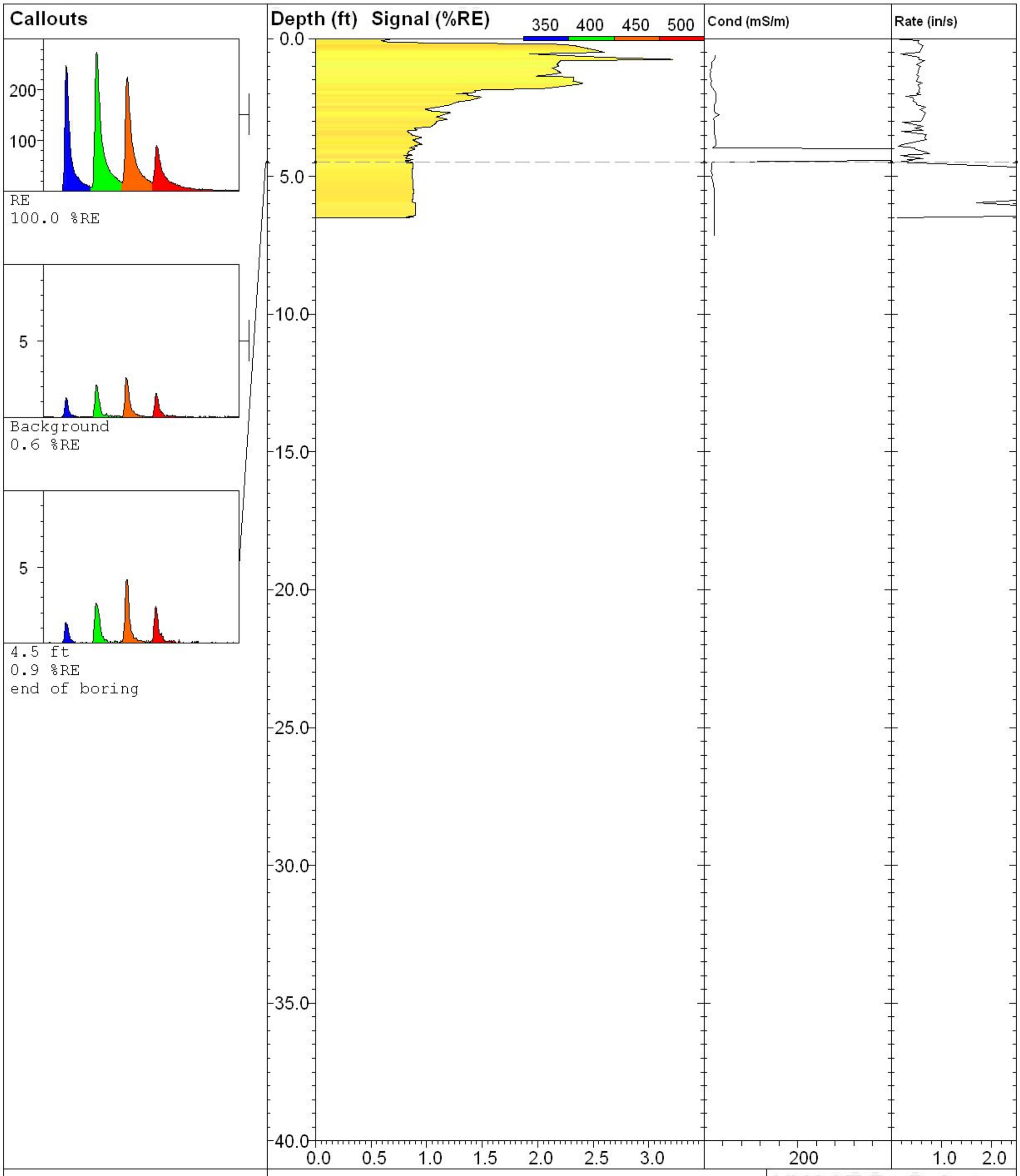
MATRIX ENVIRONMENTAL LLC
www.matrixenv.com



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-027**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **242.5 % @ 12.07 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-20 15:54 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-028**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.03 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **8.1 % @ 2.71 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-21 07:29 CDT**



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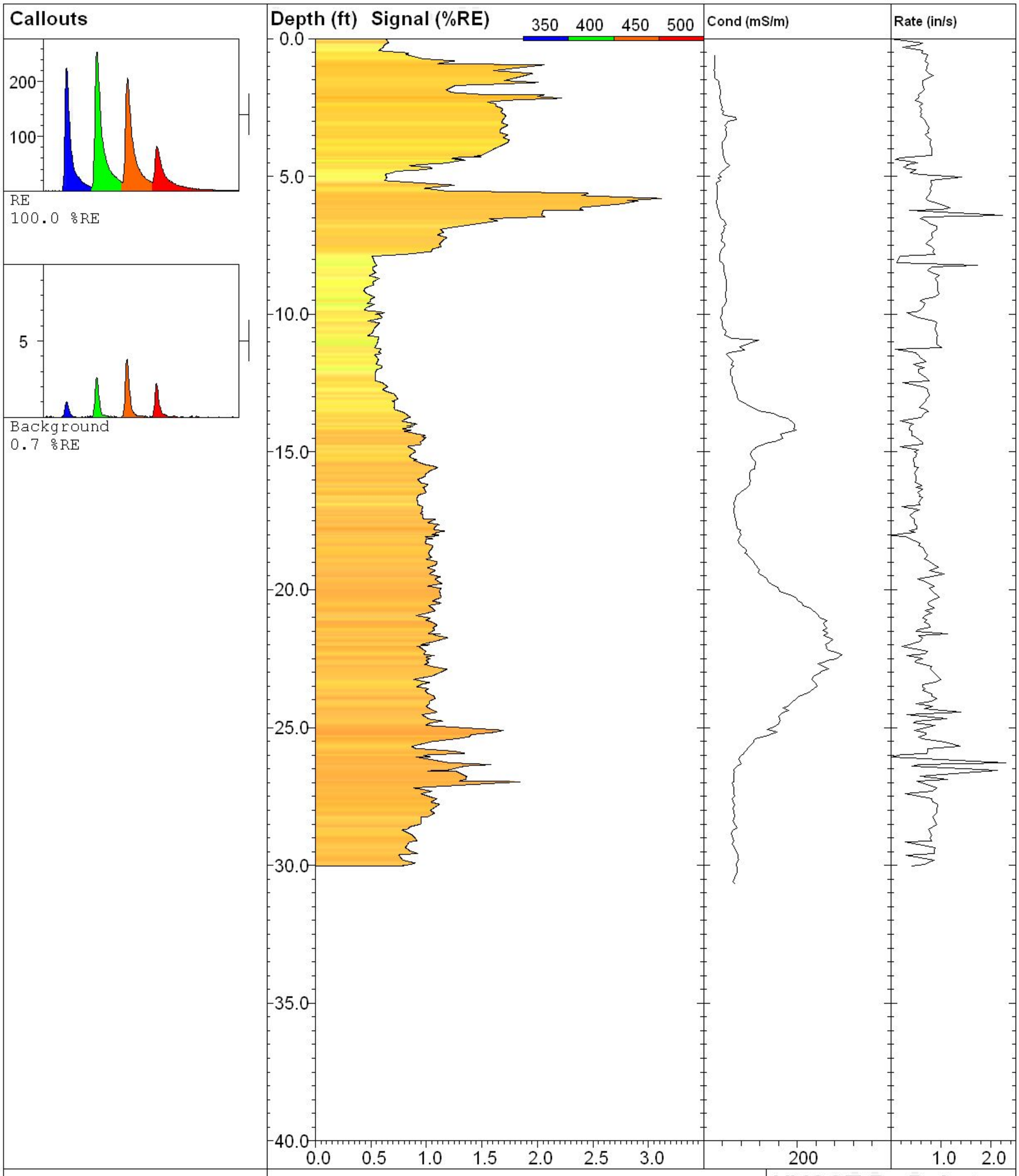
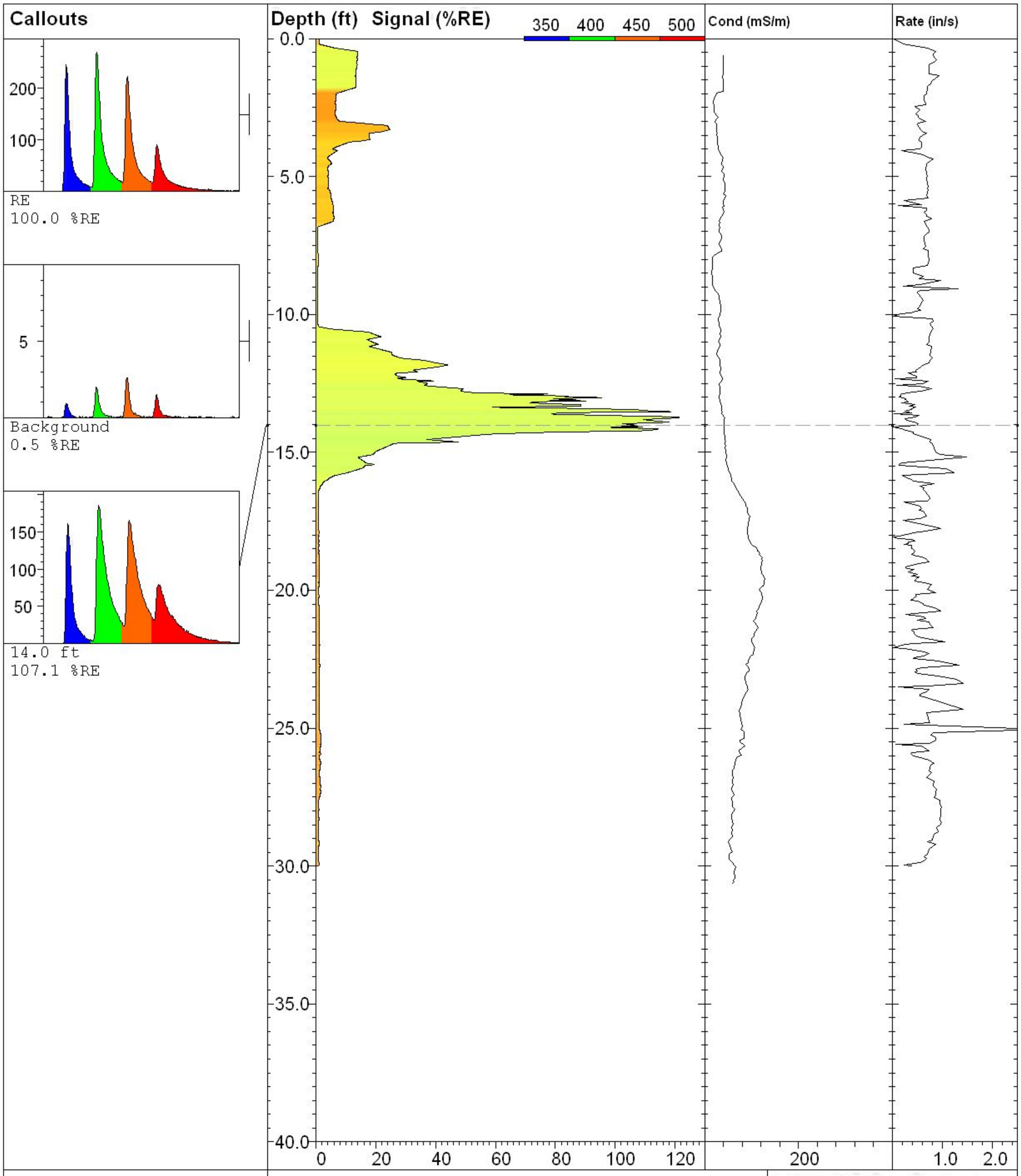
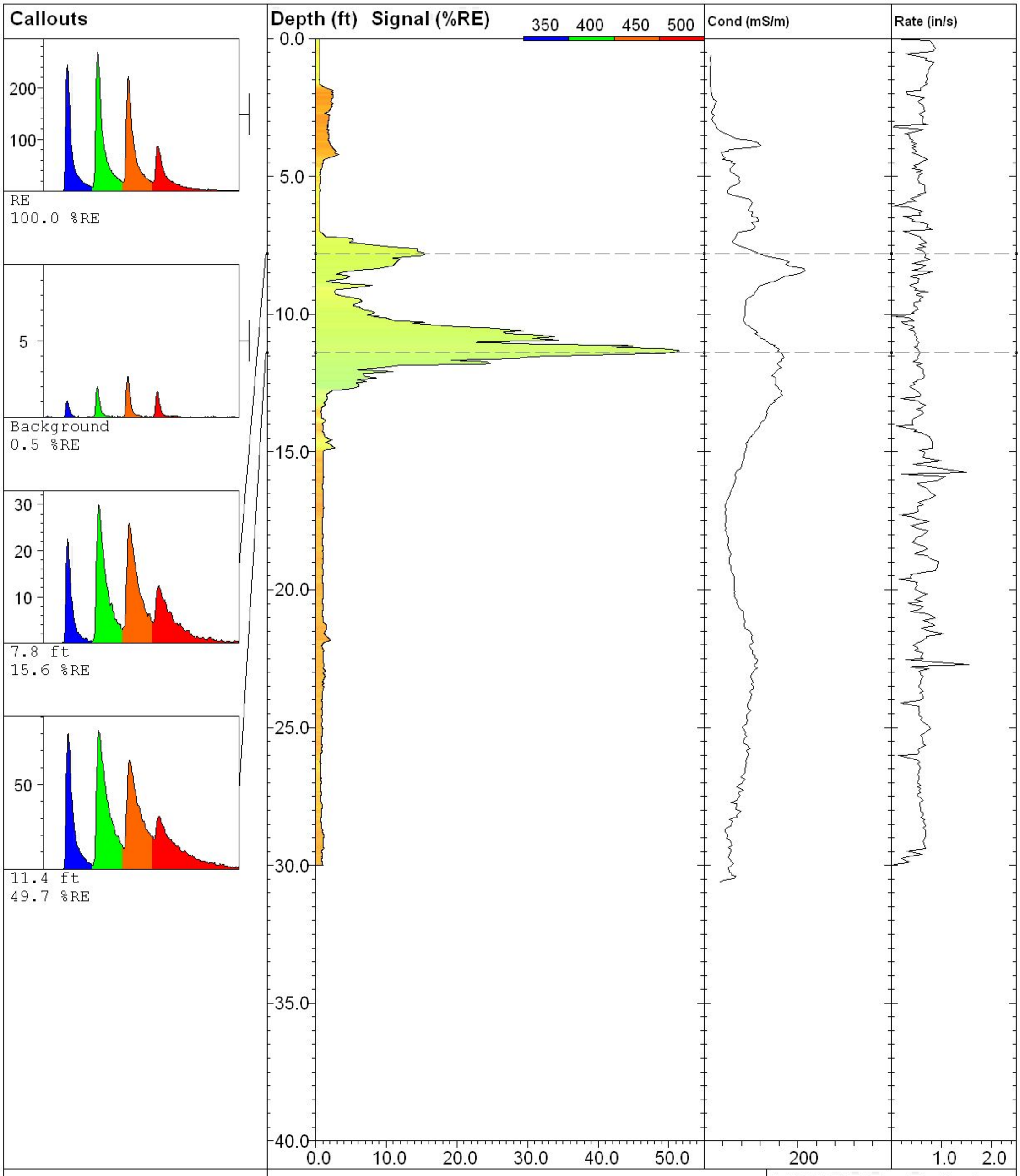
LIF-36-029		UVOST By Dakota www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **6.51 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **3.2 % @ 0.76 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-21 08:09 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-029A**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.04 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **3.1 % @ 5.80 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-21 15:42 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-030**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **121.5 % @ 13.74 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-21 08:36 CDT**



LIF-36-031		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **51.4 % @ 11.32 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-21 09:22 CDT**

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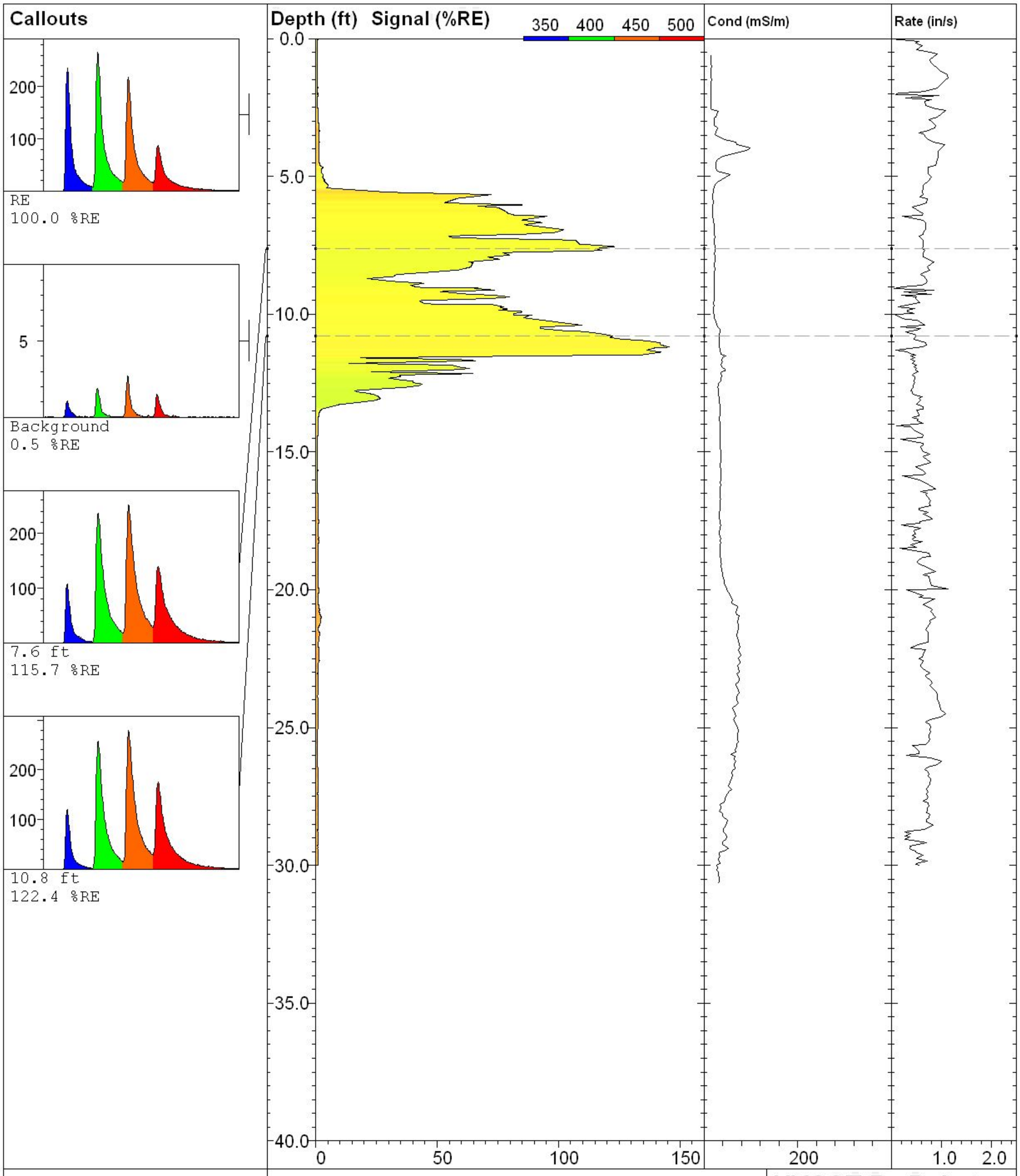
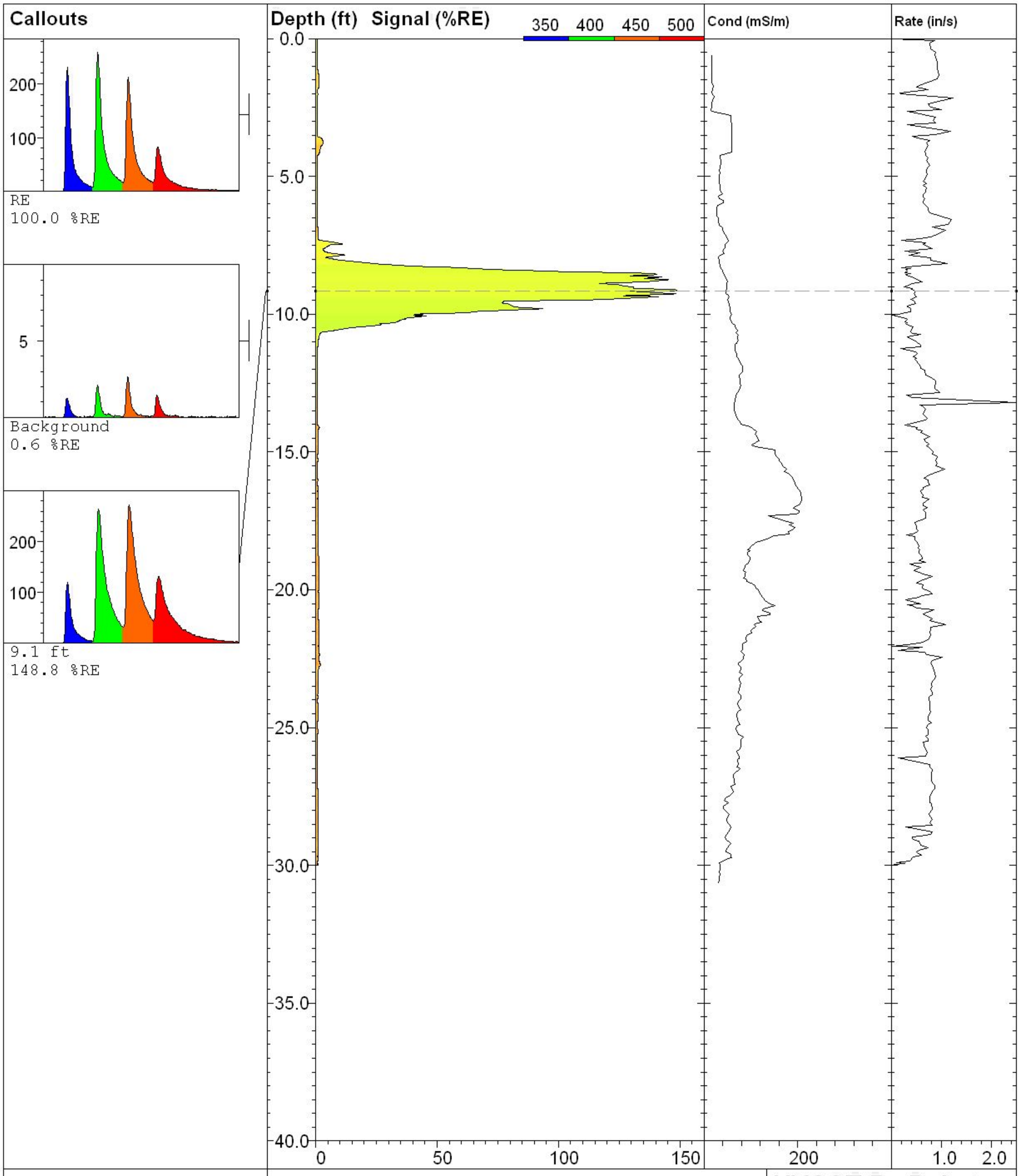
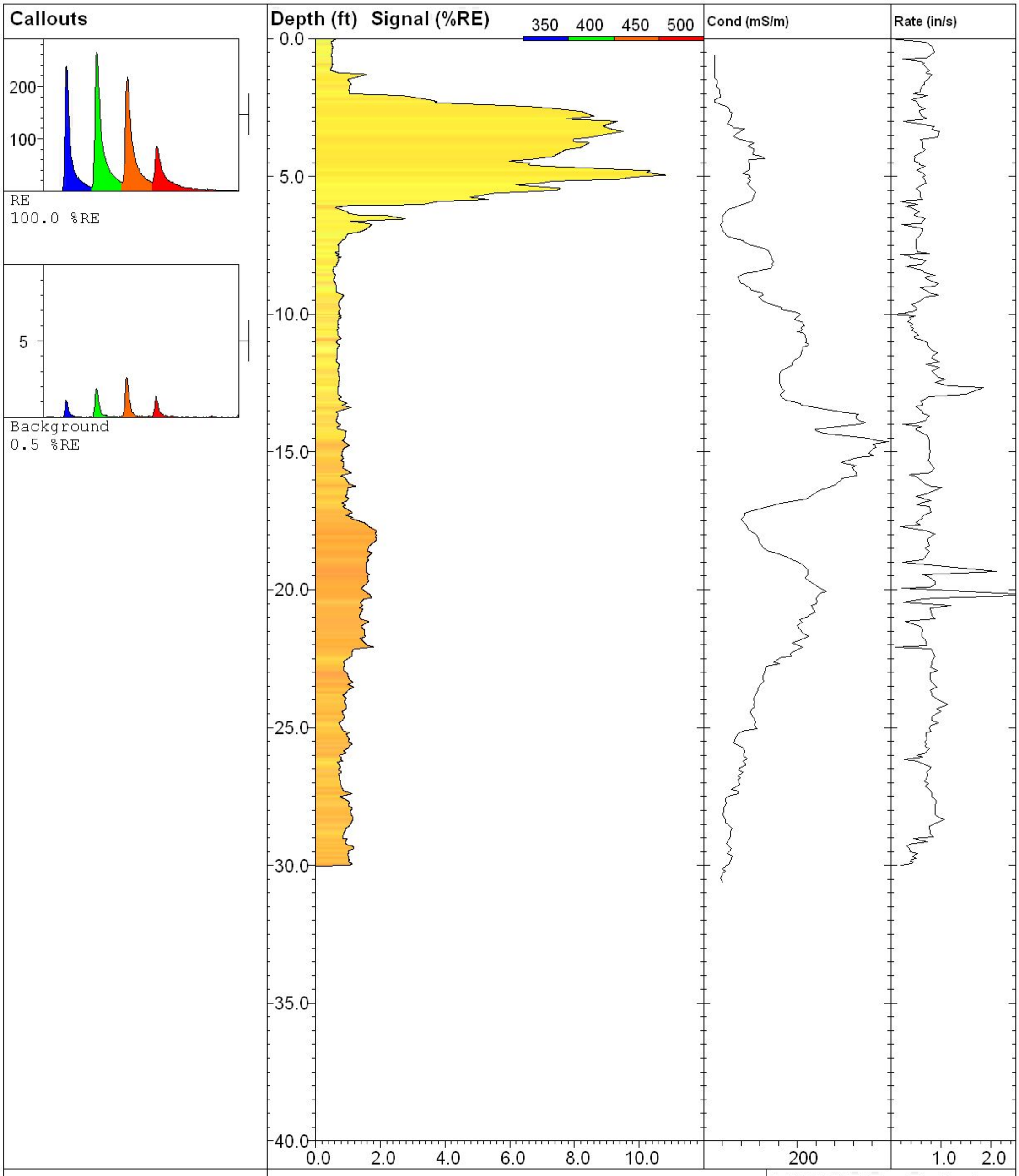


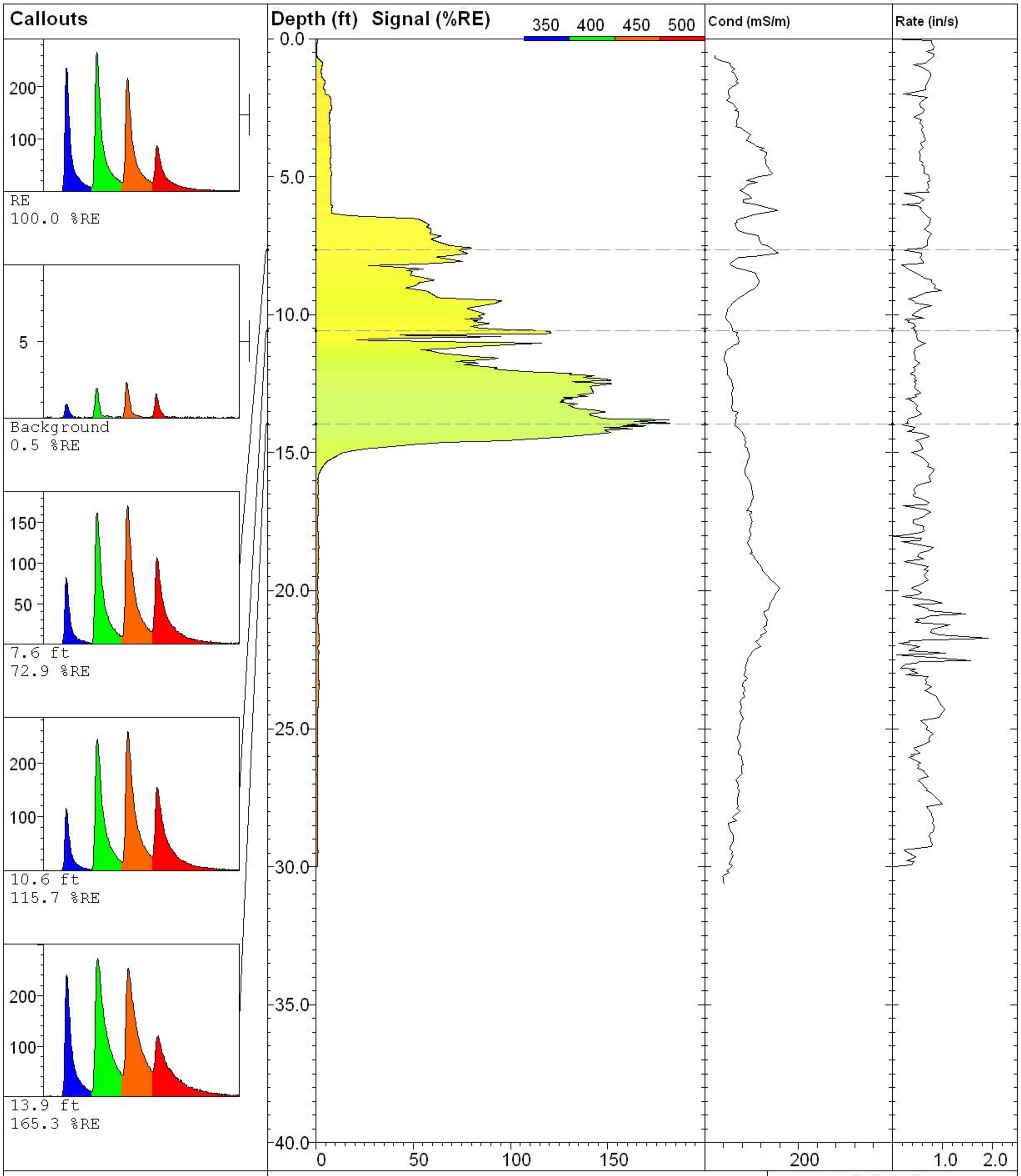
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-032**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **145.6 % @ 11.20 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-21 09:57 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-033**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **148.8 % @ 9.15 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-21 10:57 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-034**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **10.8 % @ 4.95 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-21 12:53 CDT**



LIF-36-035		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **182.8 % @ 13.92 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-21 13:36 CDT**

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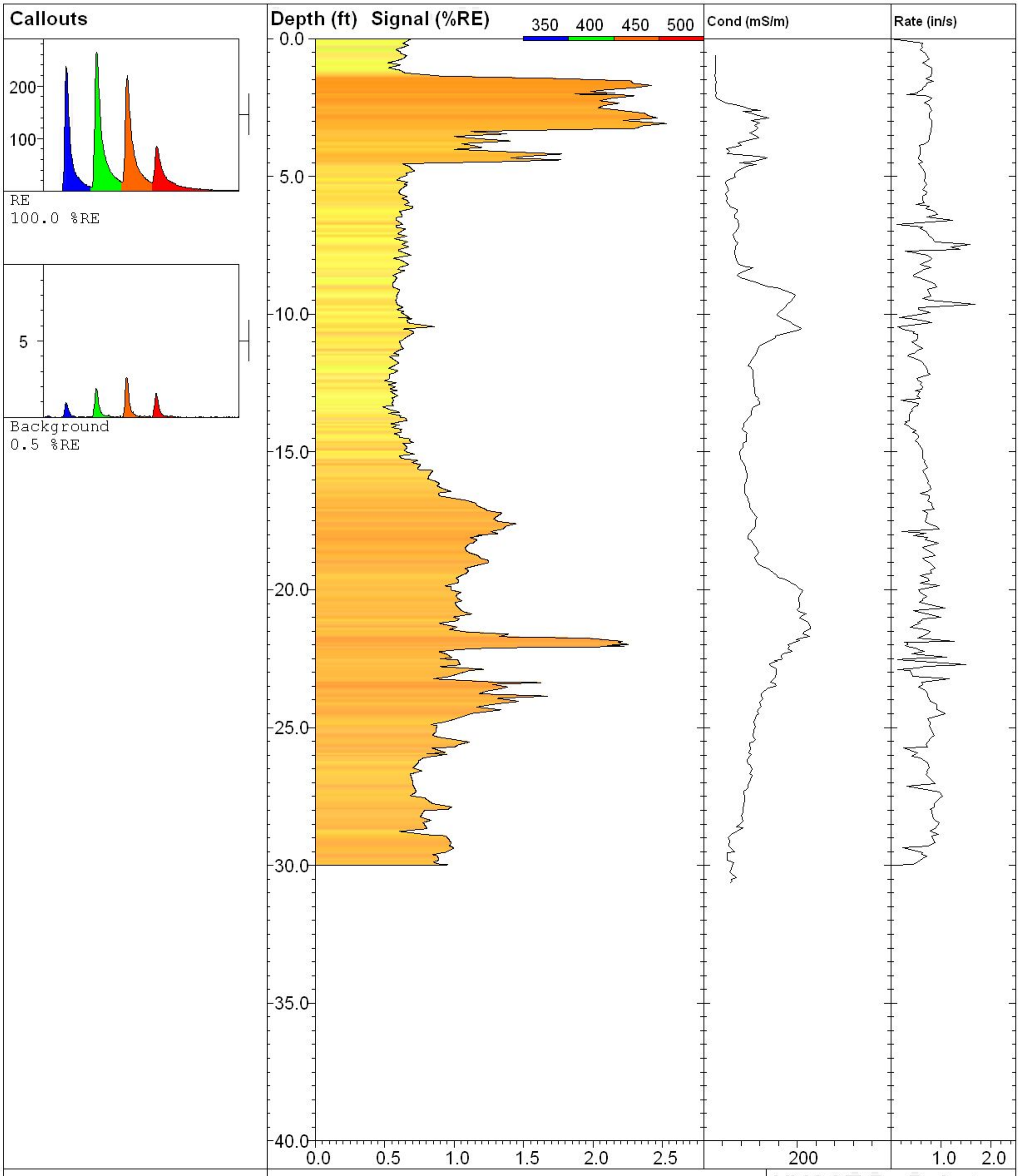

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LIF-36-036

UVOST By Dakota
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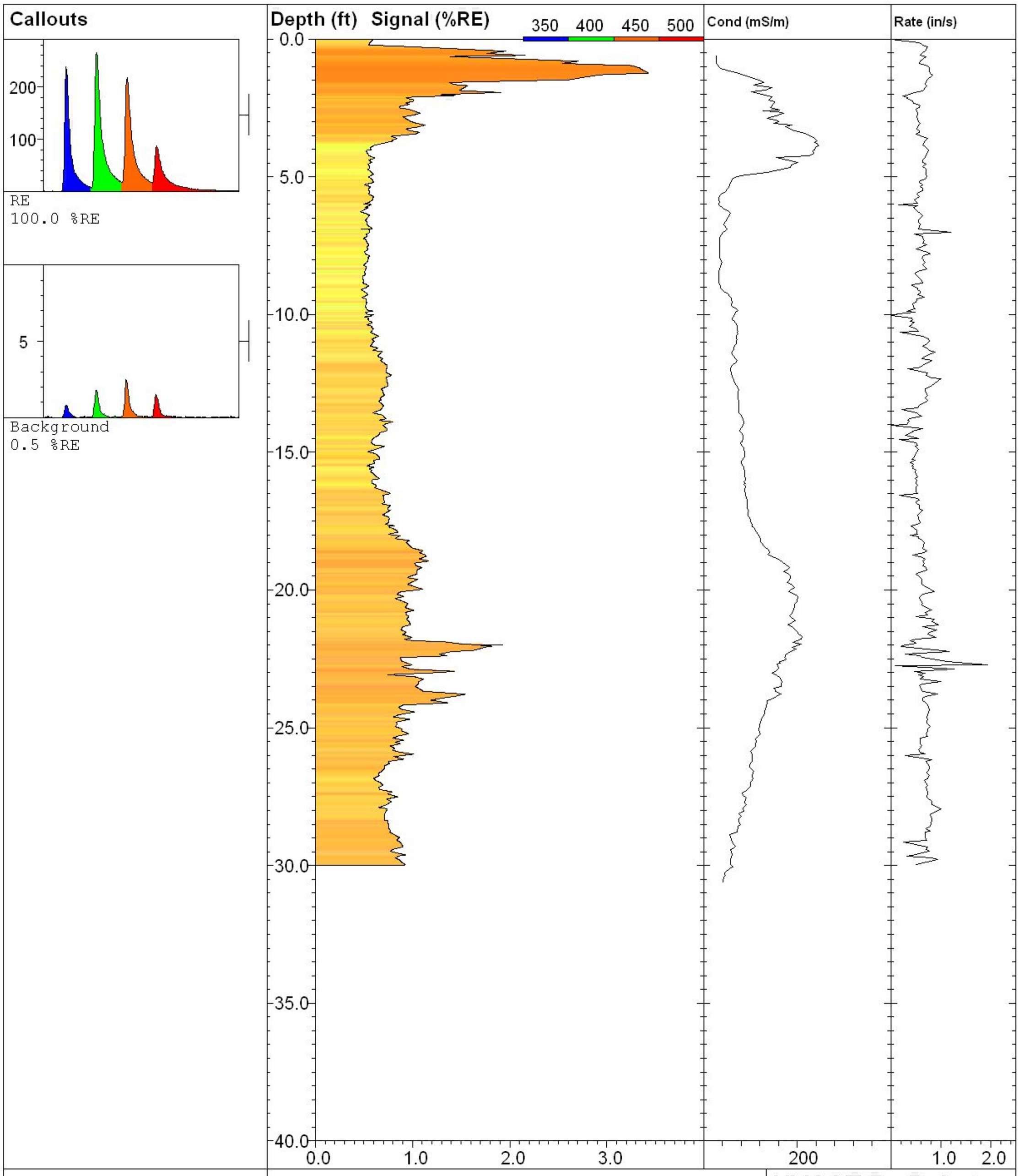
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **2.5 % @ 3.08 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-21 14:21 CDT**



LIF-36-037		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **3.4 % @ 1.24 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-21 14:55 CDT**

MATRIX ENVIRONMENTAL LLC
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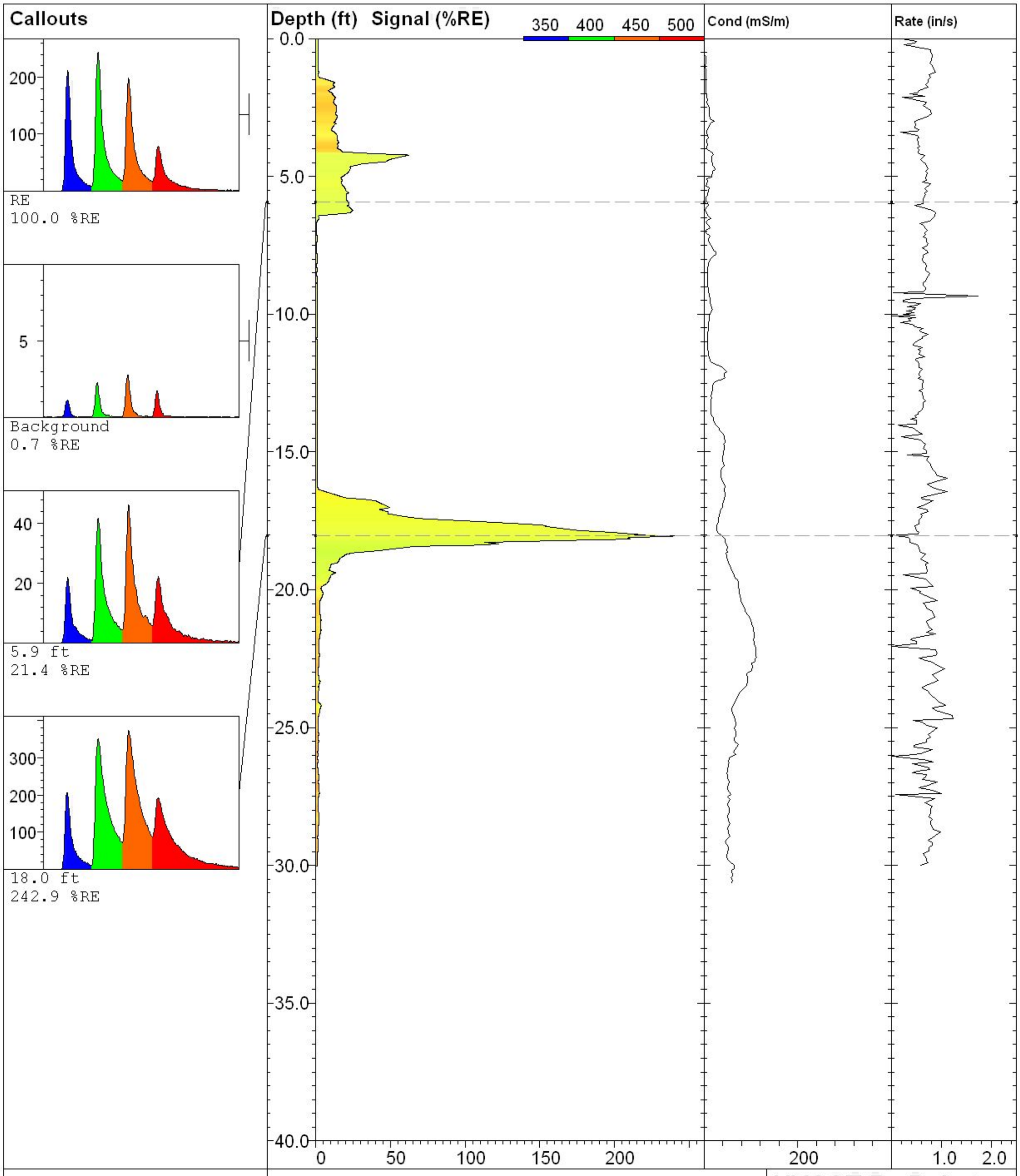

LIF-36-038		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.02 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **242.9 % @ 18.04 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-24 10:56 CDT**

MATRIX ENVIRONMENTAL LLC
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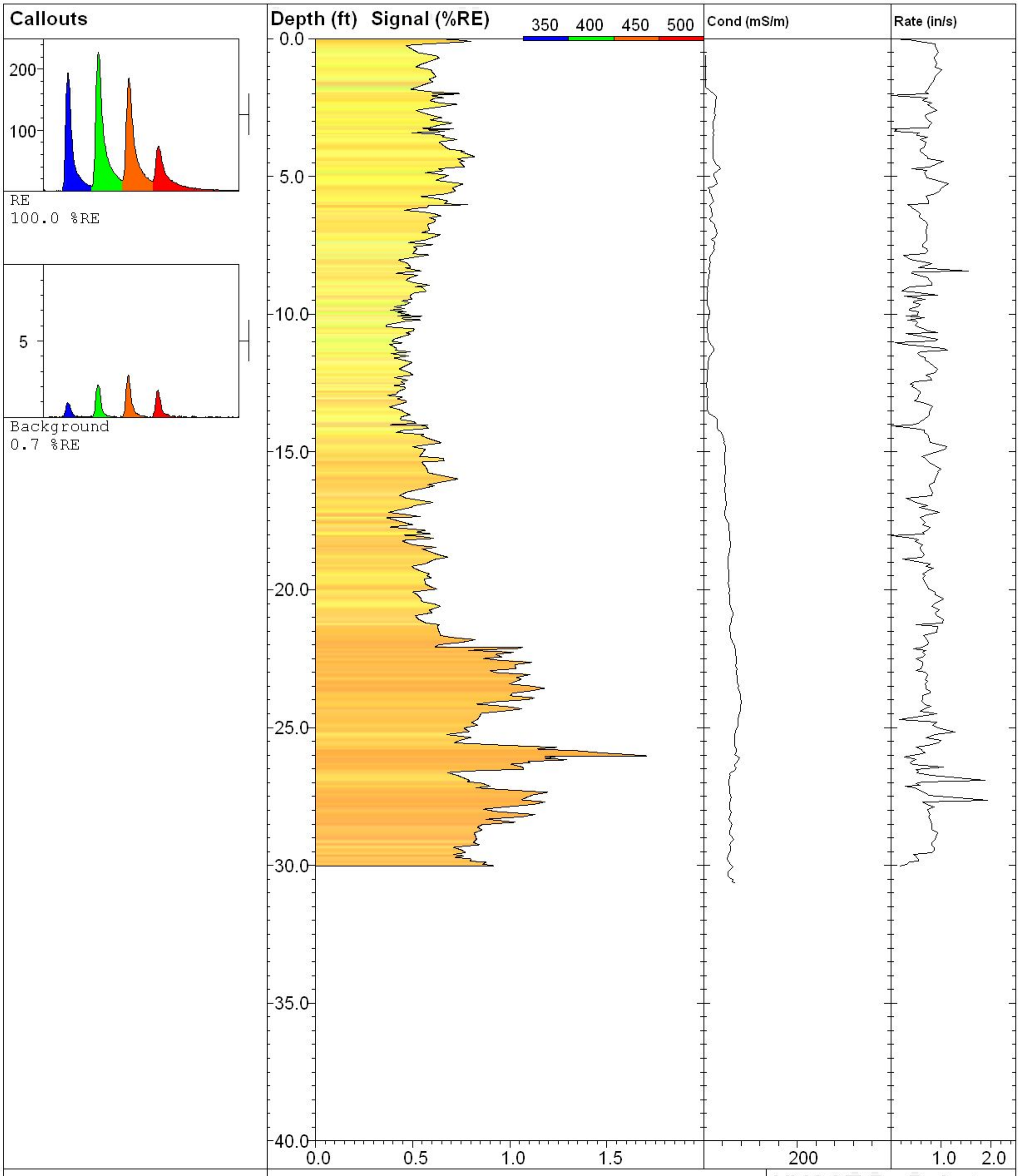
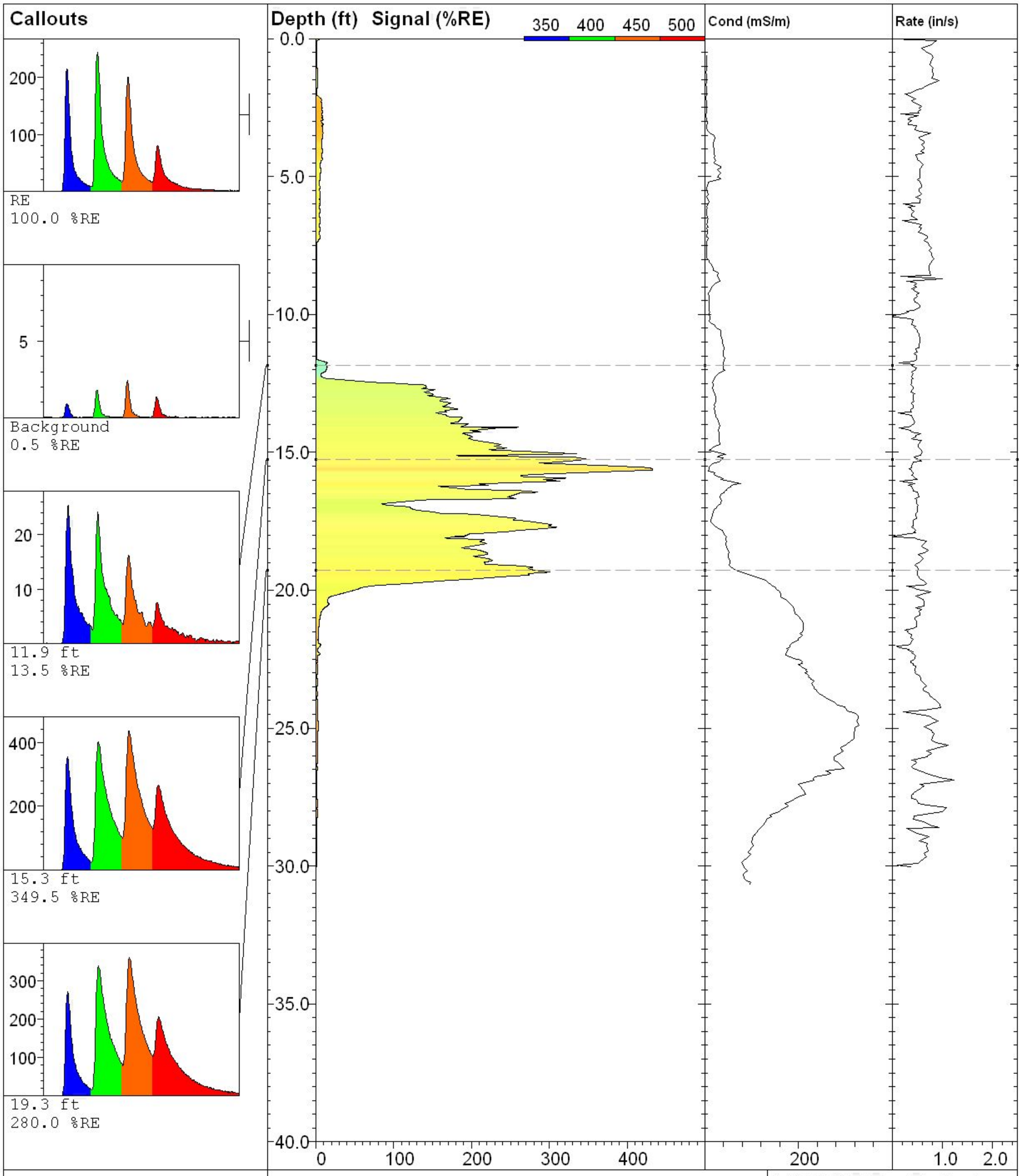


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-039**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.02 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.7 % @ 26.03 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-24 10:10 CDT**



LIF-36-040		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.03 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **433.1 % @ 15.64 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-24 12:34 CDT**

MATRIX ENVIRONMENTAL LLC
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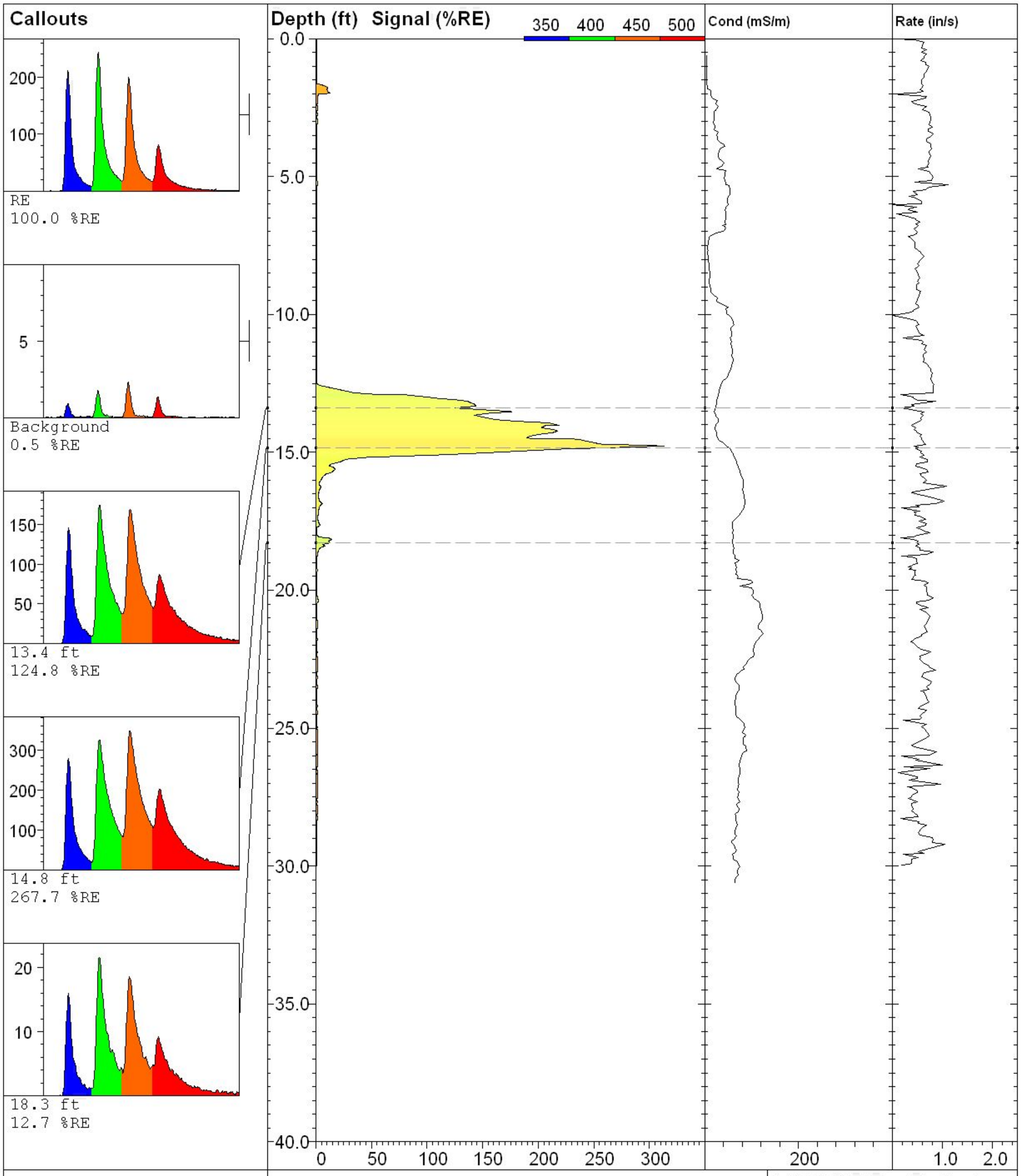
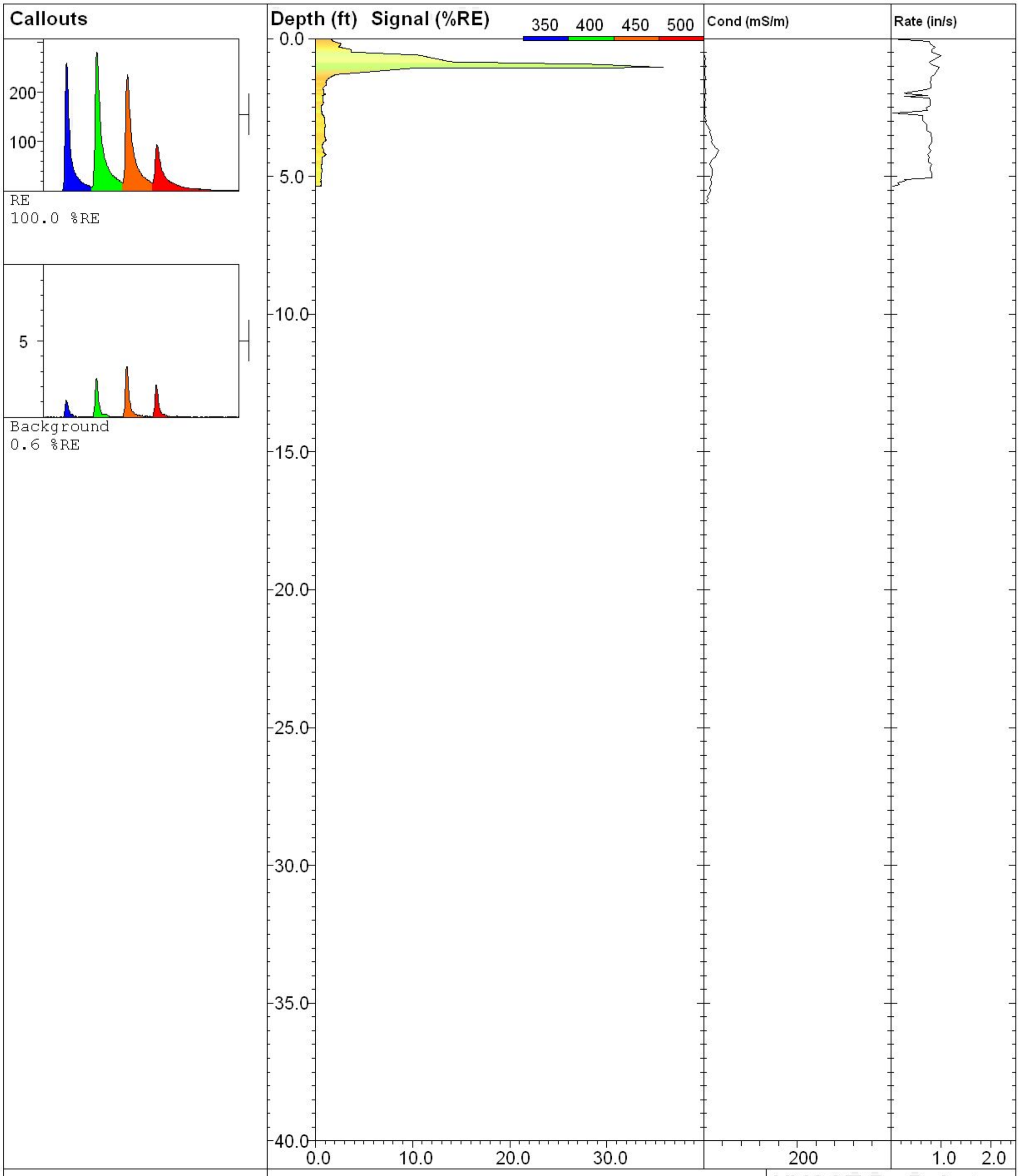


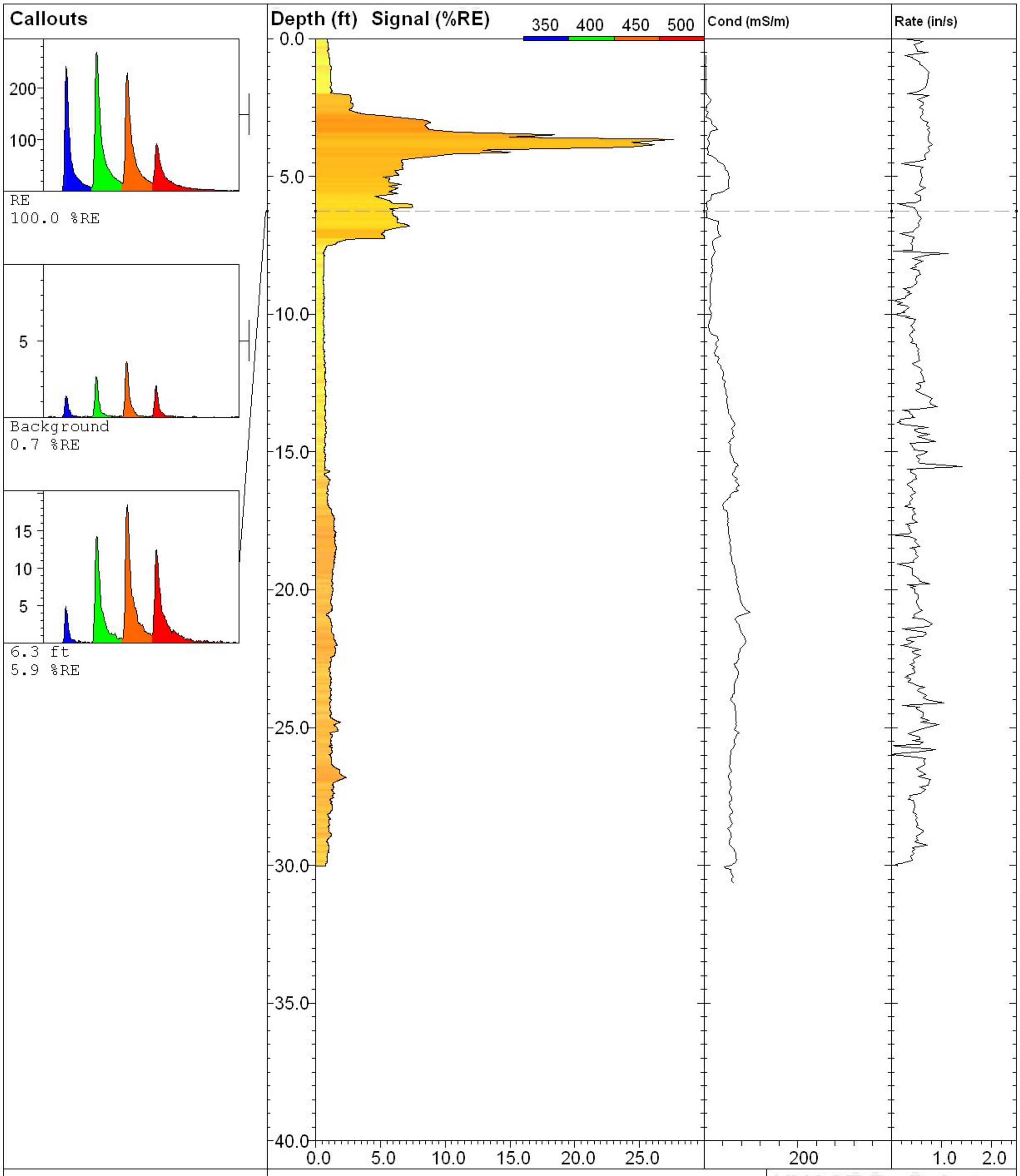
LIF-36-041		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **314.8 % @ 14.77 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-24 14:35 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com



LIF-36-042		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **5.36 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **36.0 % @ 1.05 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-25 07:29 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com



LIF-36-043		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.02 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **27.6 % @ 3.66 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-25 07:59 CDT**

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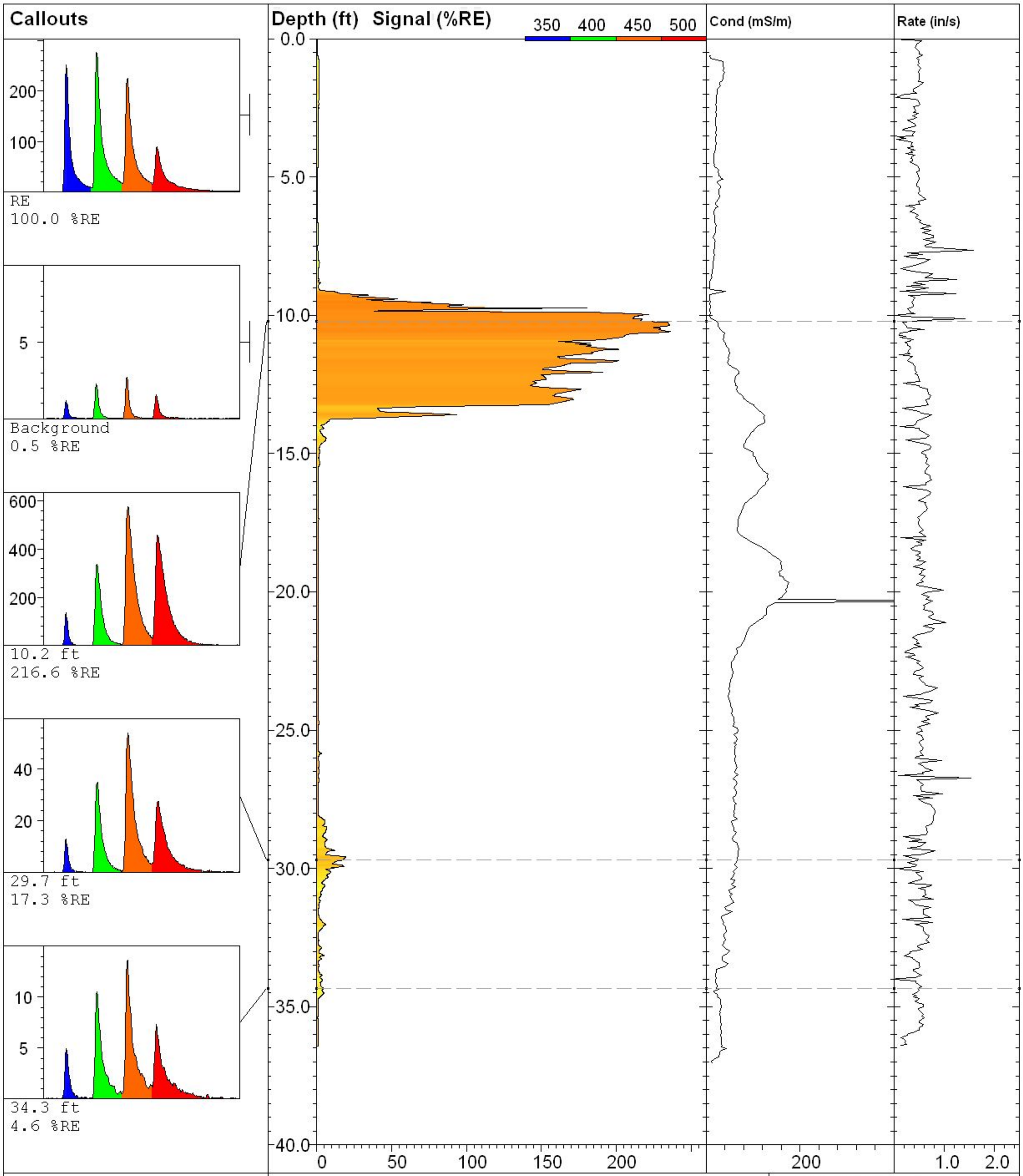
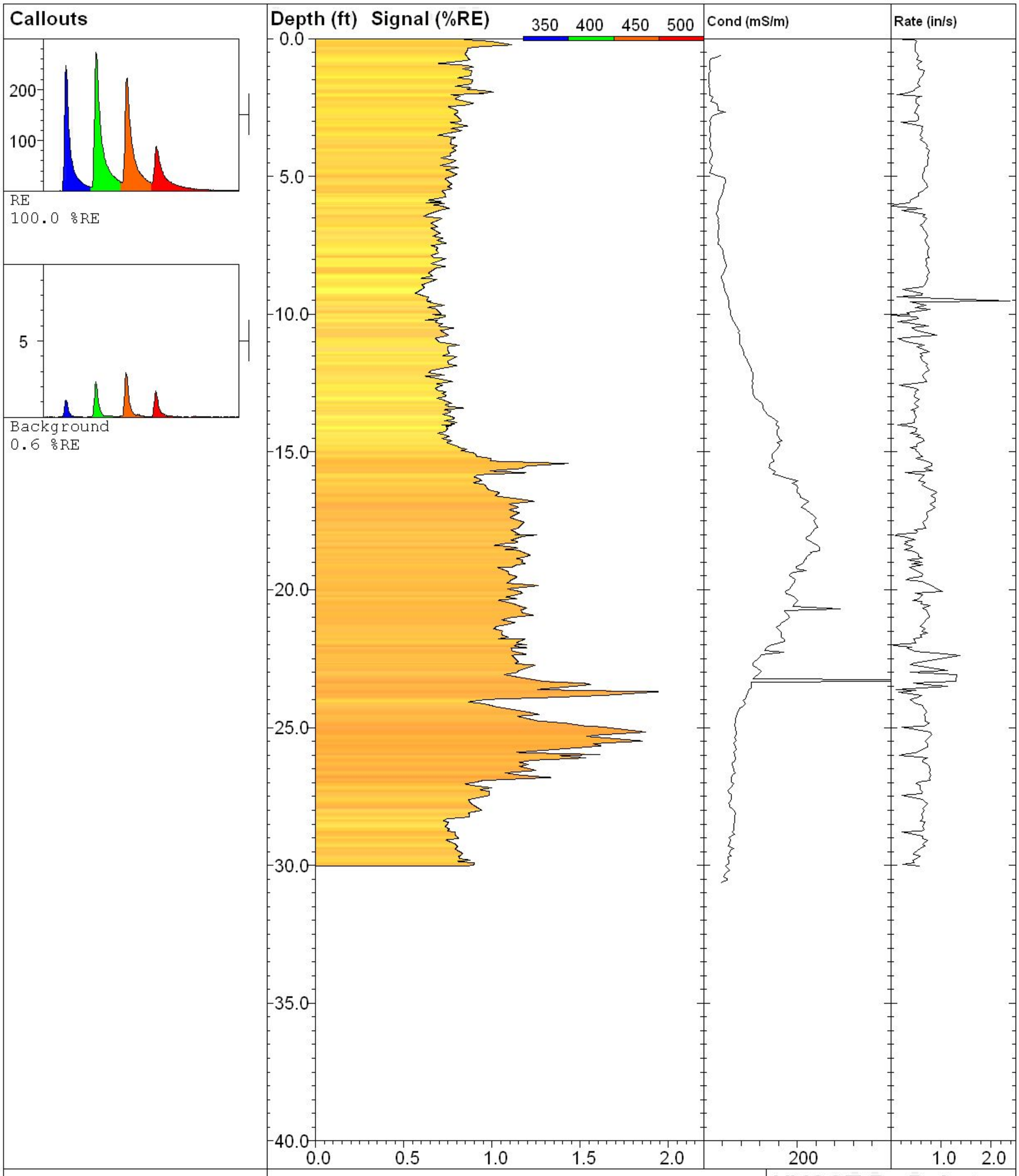


MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

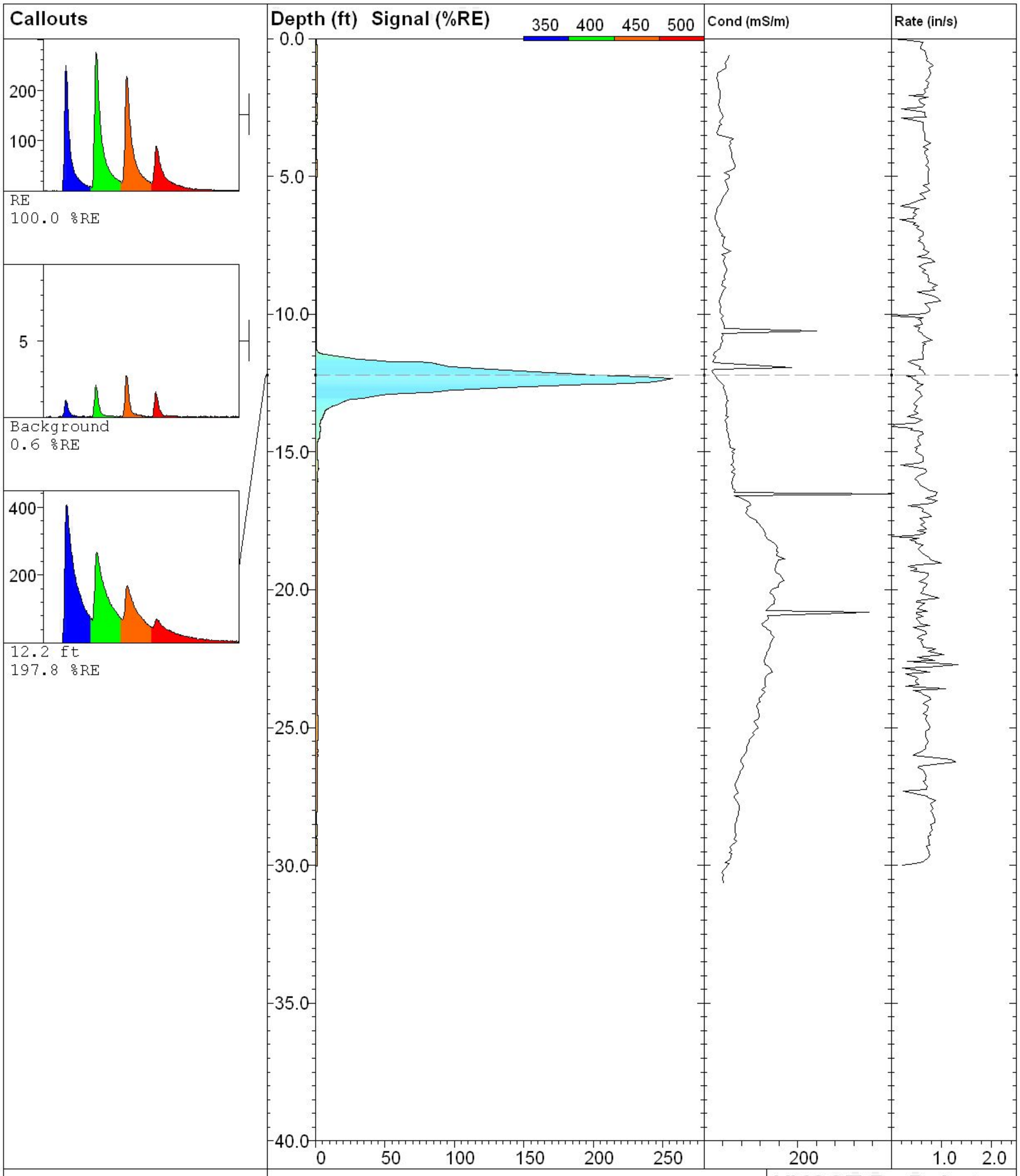
LIF-36-044

UVOST By Dakota
www.DakotaTechnologies.com

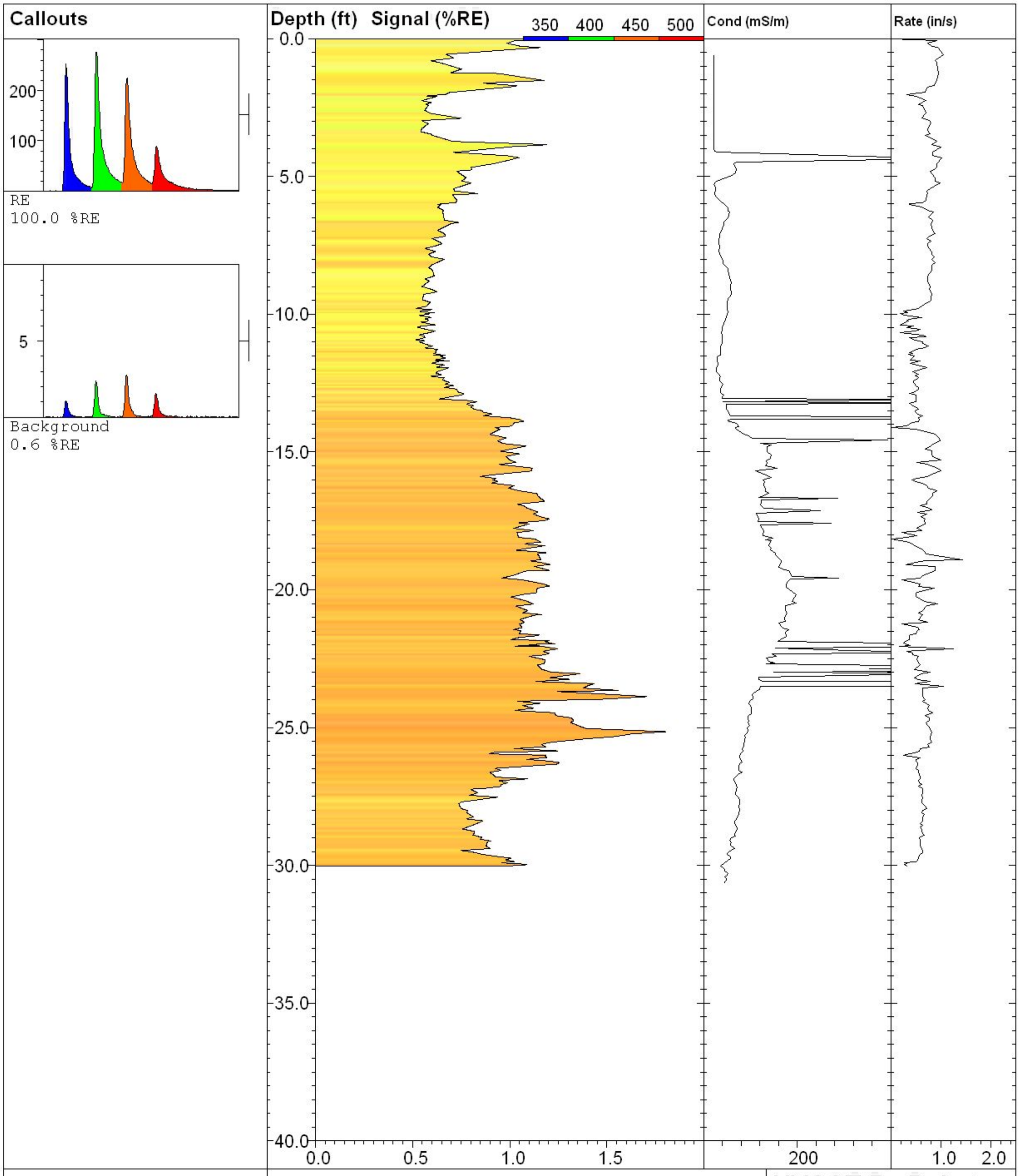
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **36.43 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **236.3 % @ 10.59 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-25 08:49 CDT**



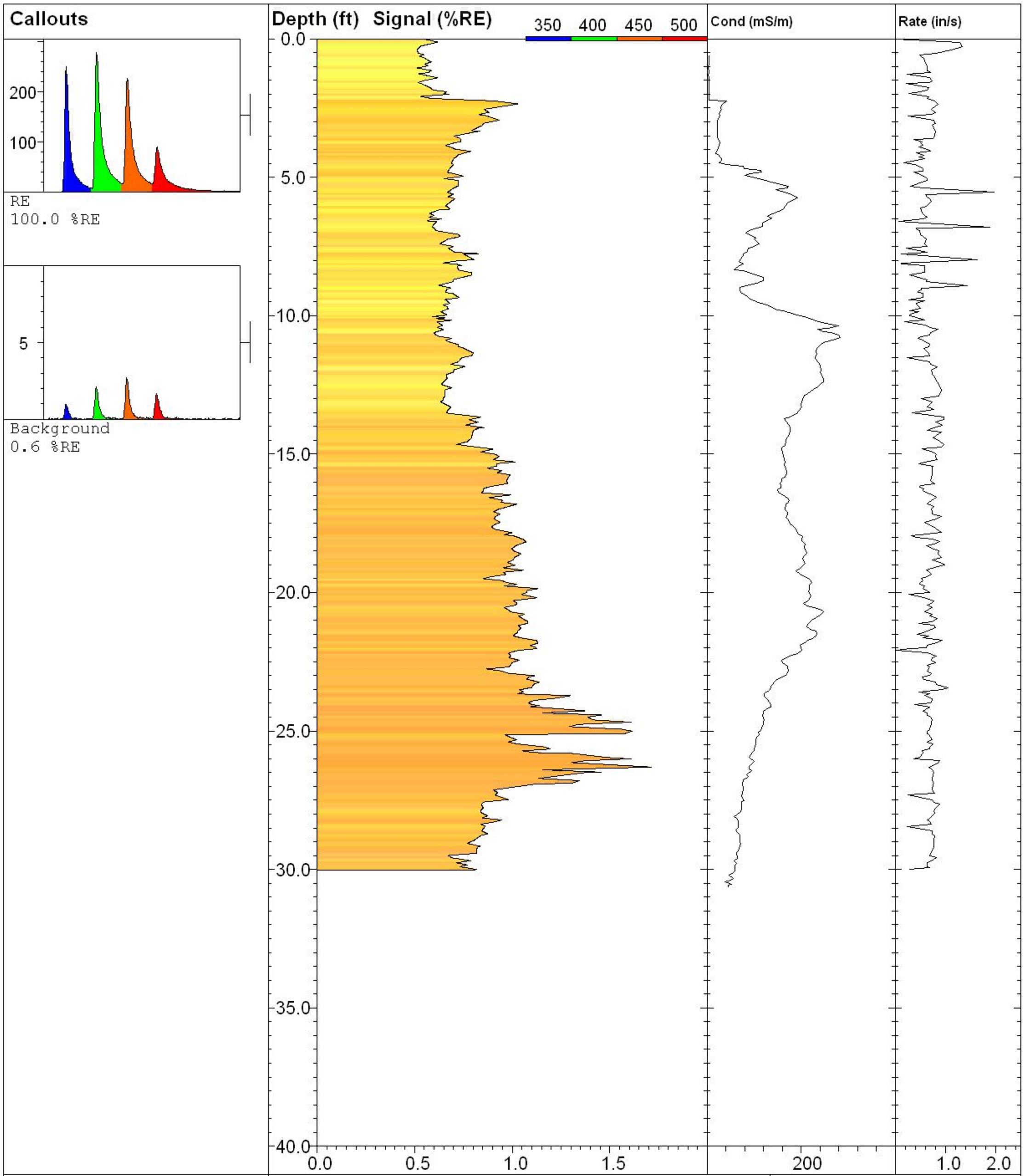
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-045**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.02 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **2.0 % @ 23.70 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-25 09:40 CDT**



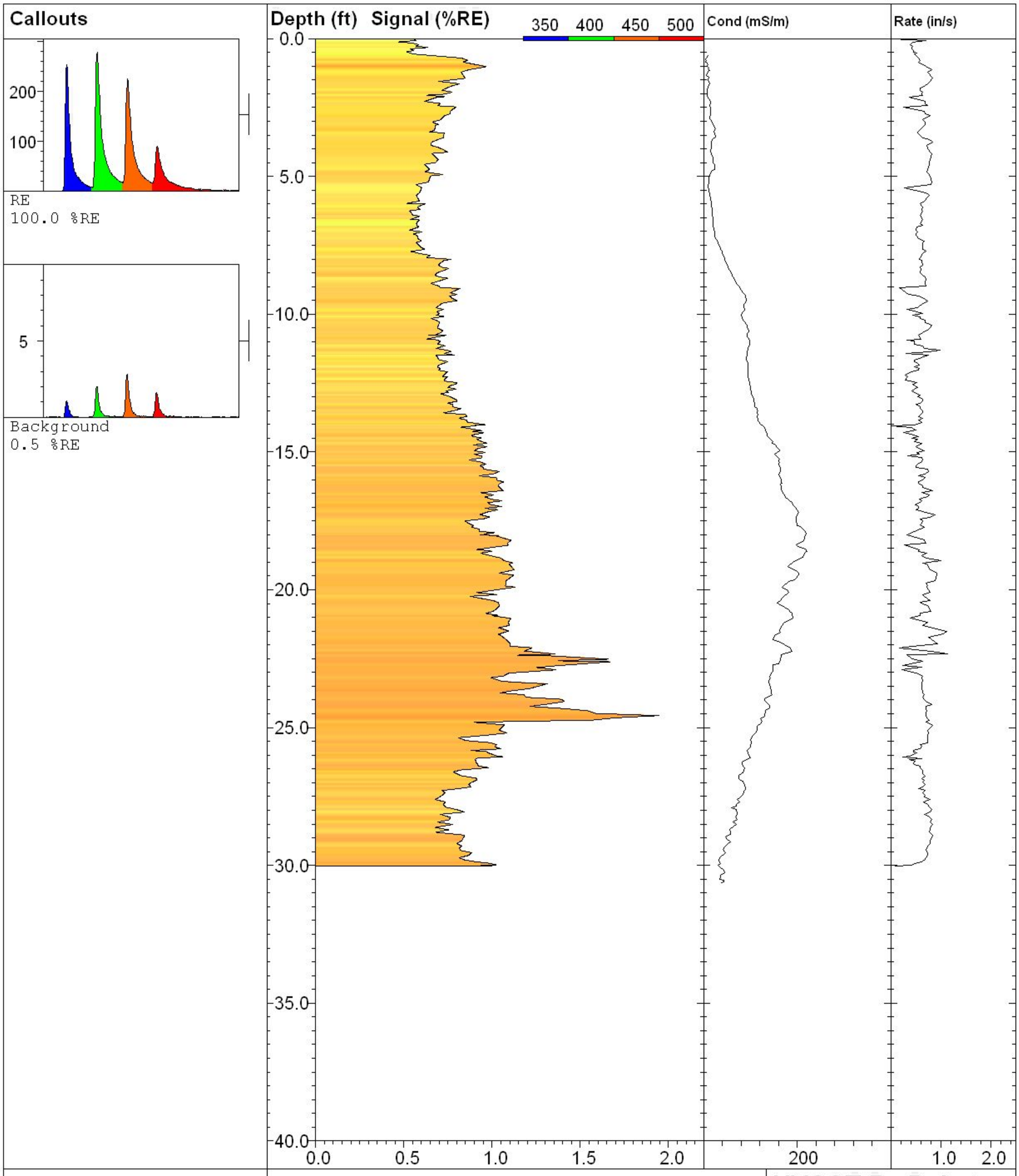
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-046**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.03 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **257.1 % @ 12.33 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-25 10:15 CDT**



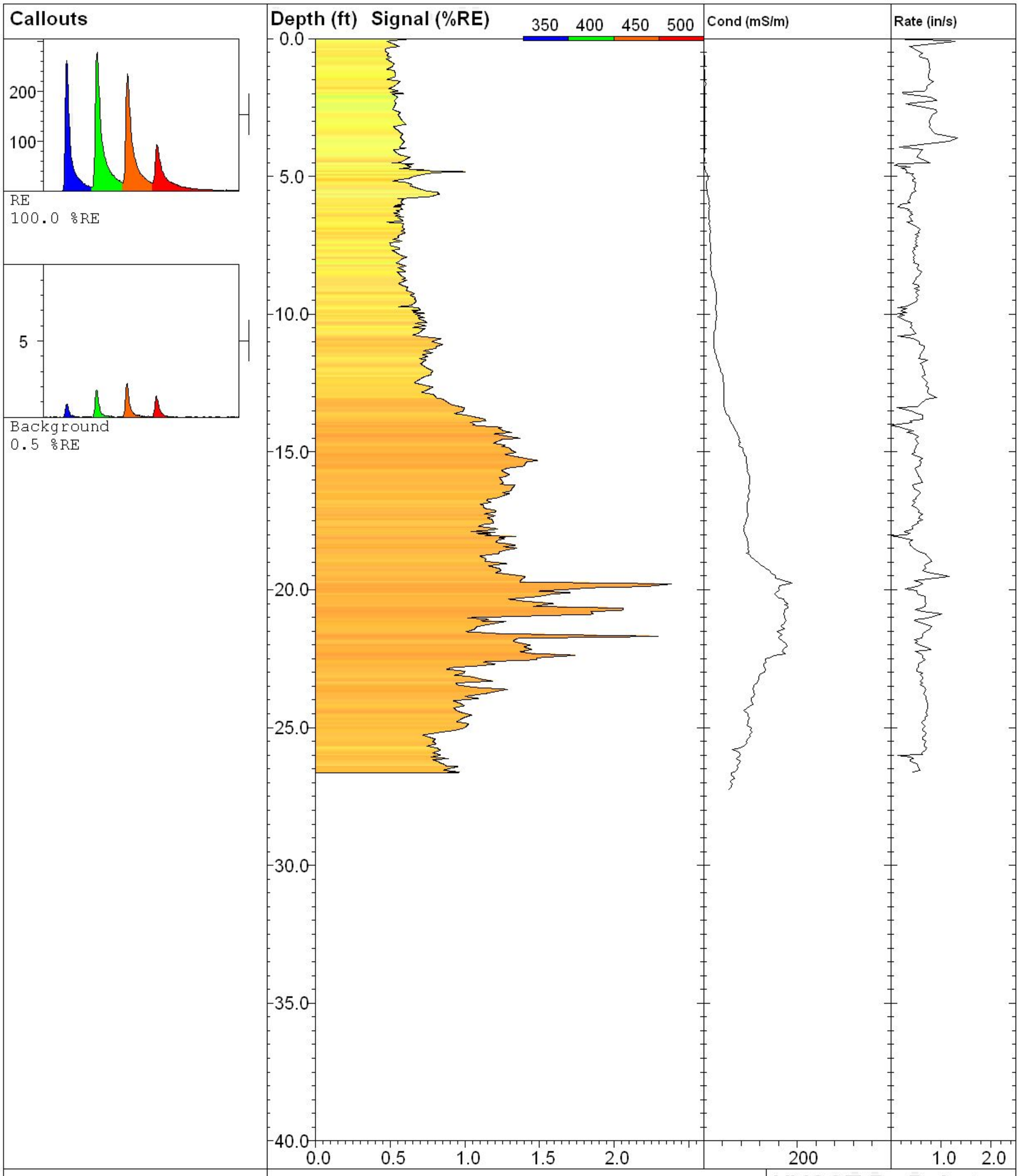
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-047**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.02 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.8 % @ 25.15 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-25 12:36 CDT**



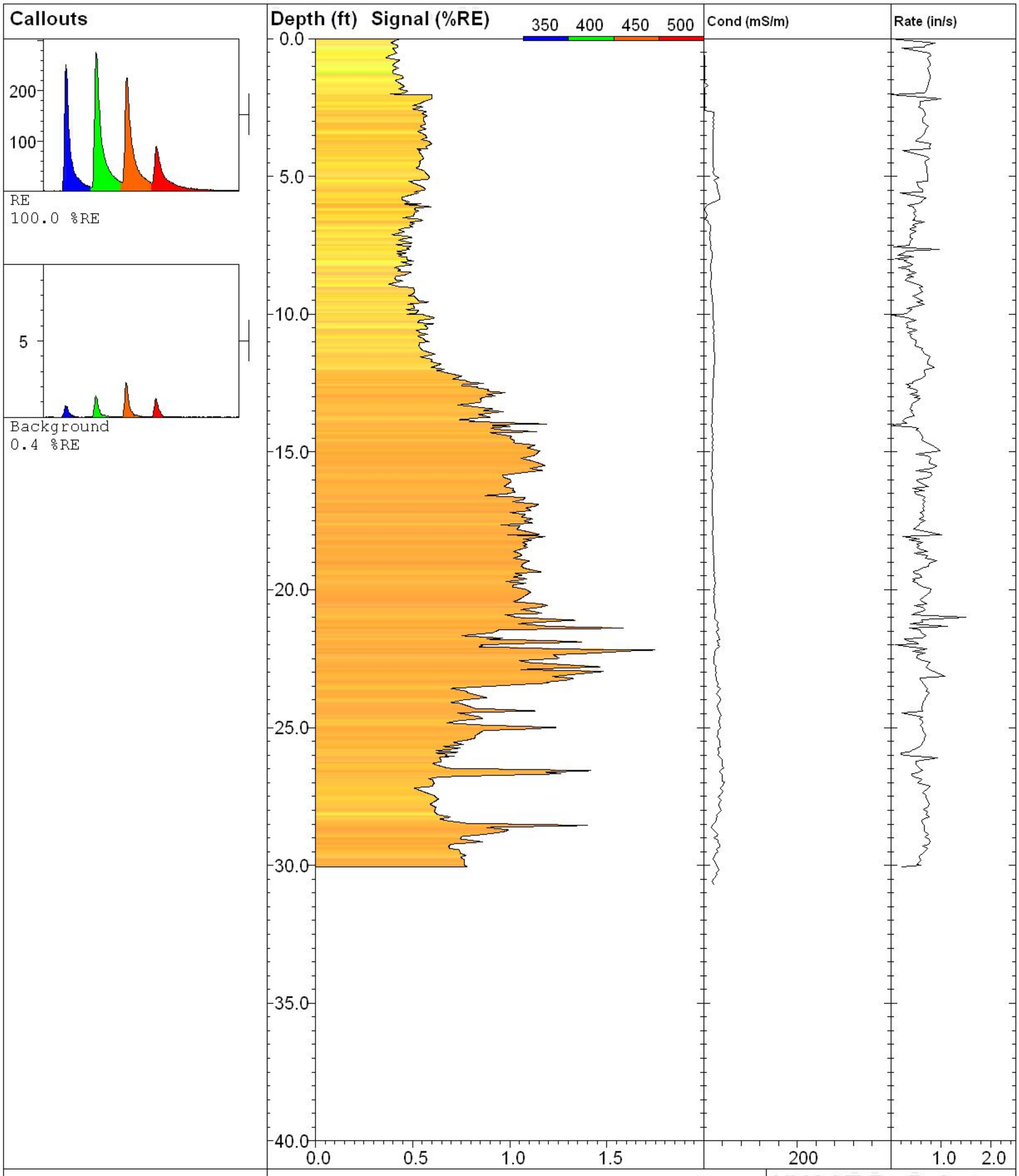
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-048**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.03 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.7 % @ 26.31 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-25 13:27 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-049**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.02 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.9 % @ 24.57 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-25 14:26 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-050**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **26.65 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **2.4 % @ 19.79 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-26 07:12 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-36-051**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.05 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.8 % @ 22.18 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-26 08:09 CDT**

Buick City
Area 40

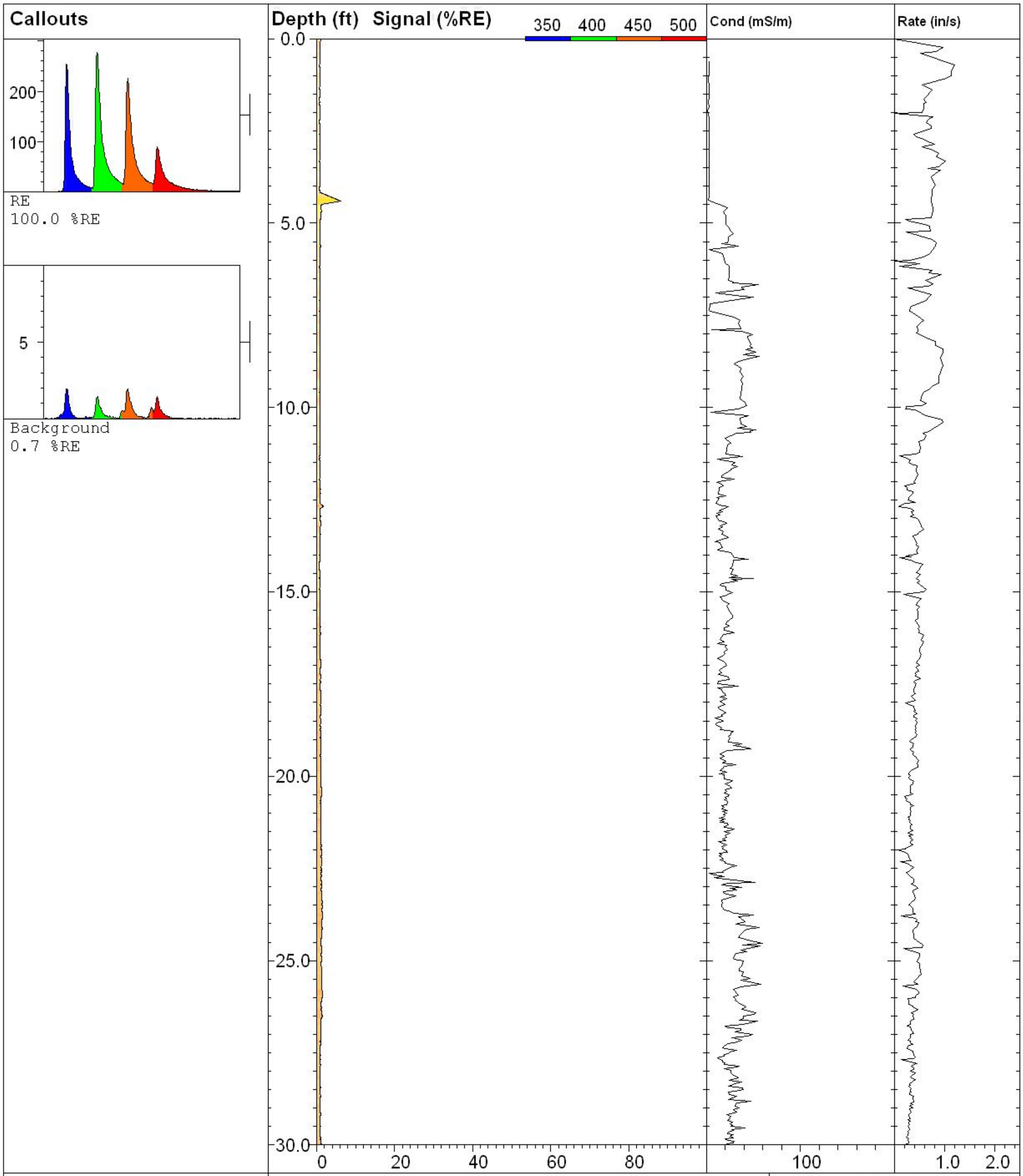
11253 91st Avenue North
Maple Grove, Minnesota
(763) 424-4803
fax (763) 424-9452

Client:	ARCADIS
Contact:	Megan Reightler
Services:	UVOST Logging
Date:	10/10/2011 - 10/29/2011
Project:	Buick City
Project #:	135-MNDS-11UV
Address:	Flint, MI

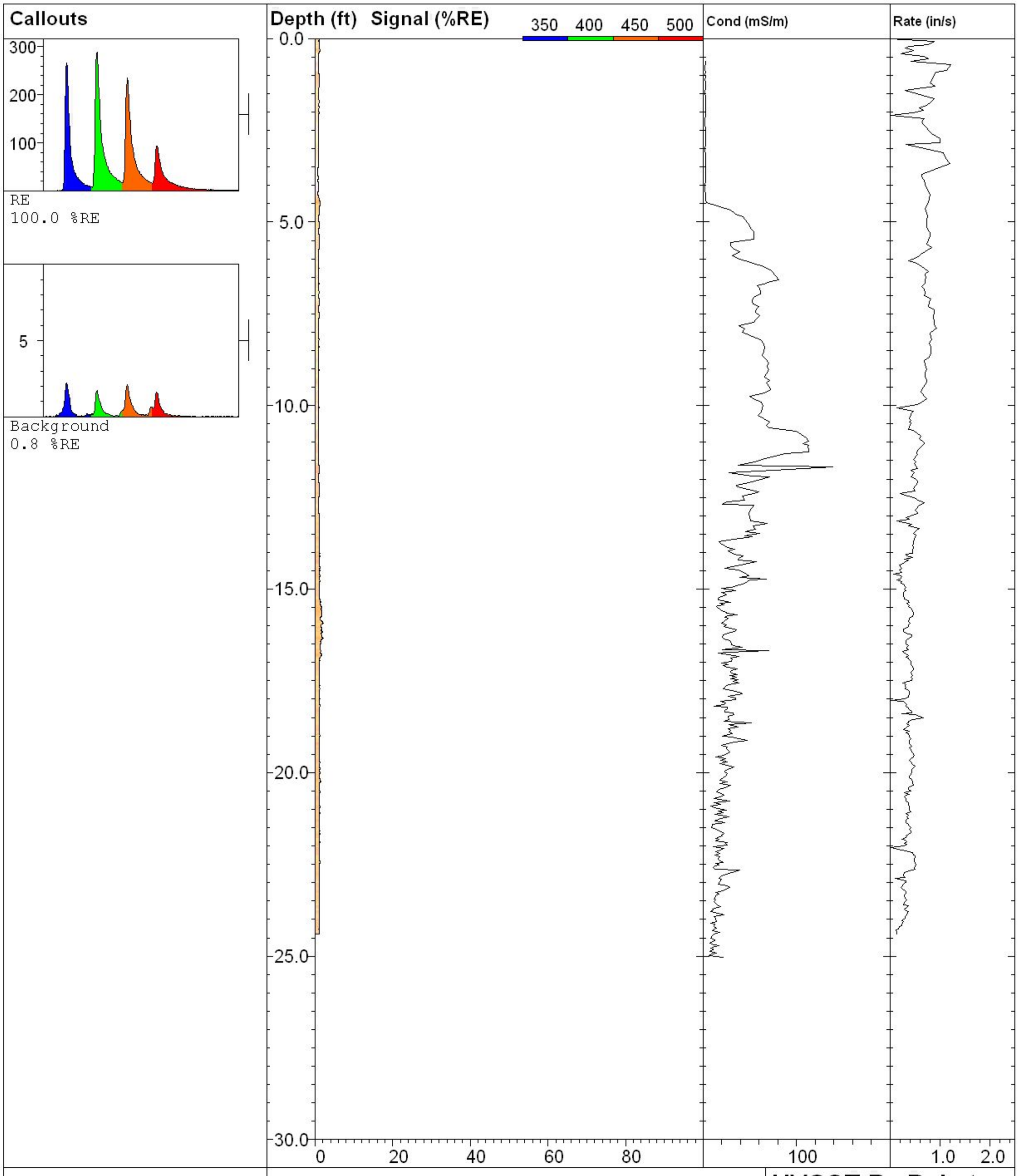
UVOST Log Summary

File	Date/Time	Latitude	Longitude	Final Depth *(ft)*	Max Signal *(%RE)*	Max. Signal Depth *(ft)*	Initial RE Area *(pVs)*	Background Area *(pVs)*	Fluorescence Top - Bottom *(ft)*
LIF-40-026	10/12/2011 10:02	NA	NA	30.0	6	4.4	11573	79	NA
LIF-40-027	10/12/2011 12:31	NA	NA	24.4	2	15.9	11890	93	NA
LIF-40-028	10/12/2011 13:20	NA	NA	30.0	6	4.6	11770	106	14.4 - 18.4
LIF-40-029	10/12/2011 14:19	NA	NA	30.0	9	8.5	11532	77	8.0 - 8.8

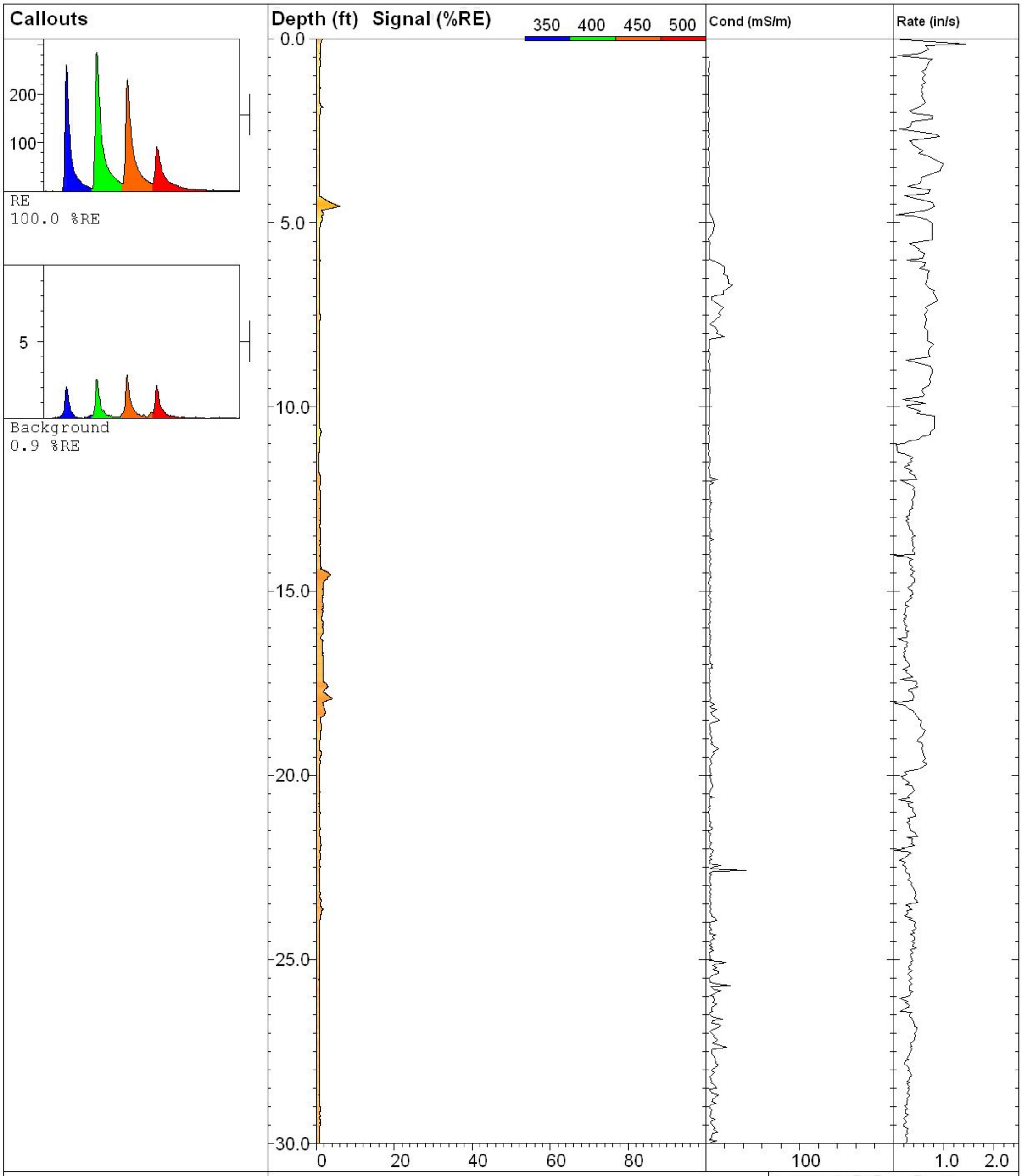
UVOST LOGS
@ 100% RE



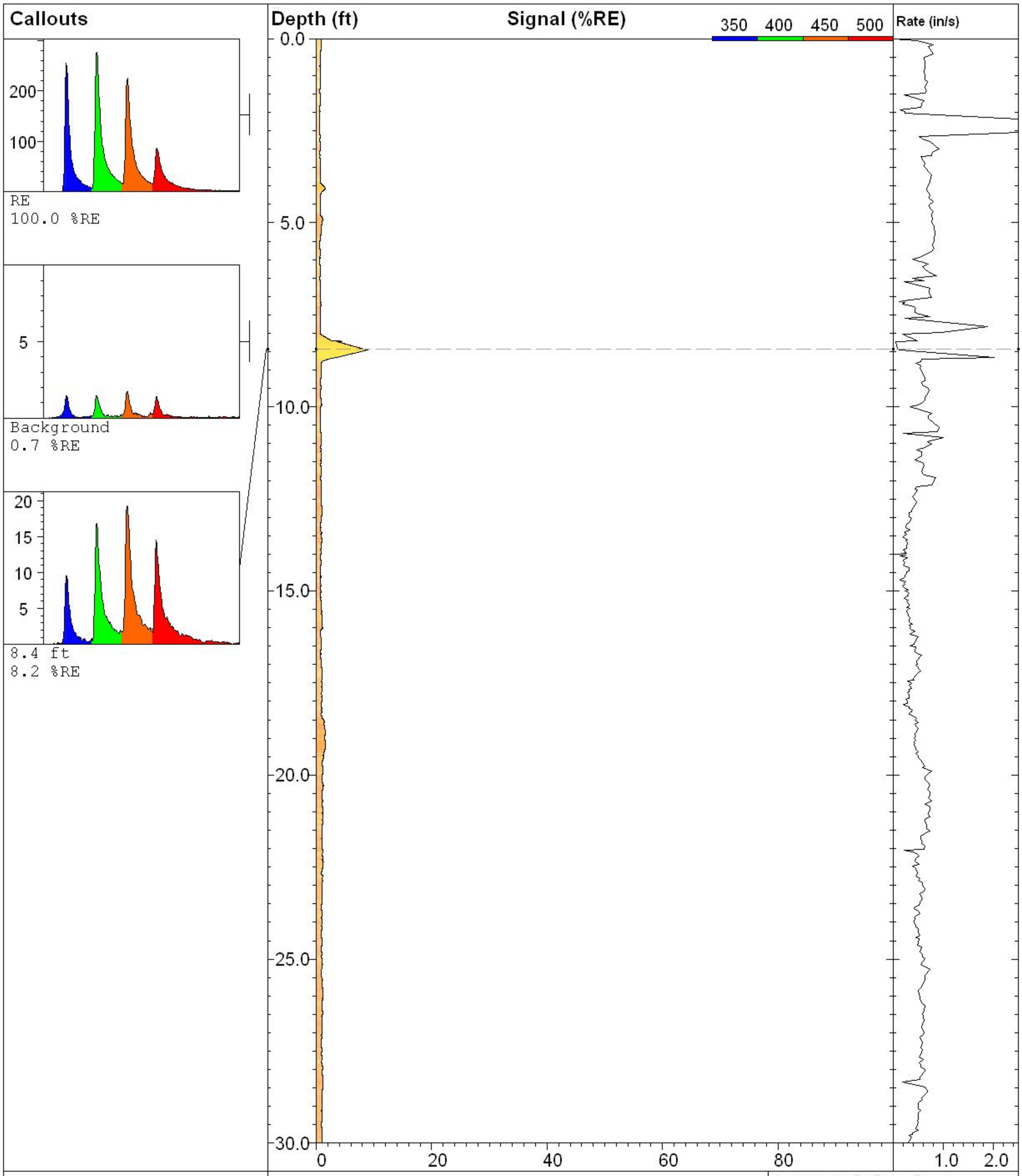
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-40-026**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **6.2 % @ 4.40 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-12 10:02 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-40-027**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **24.40 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **2.1 % @ 15.93 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-12 12:31 CDT**

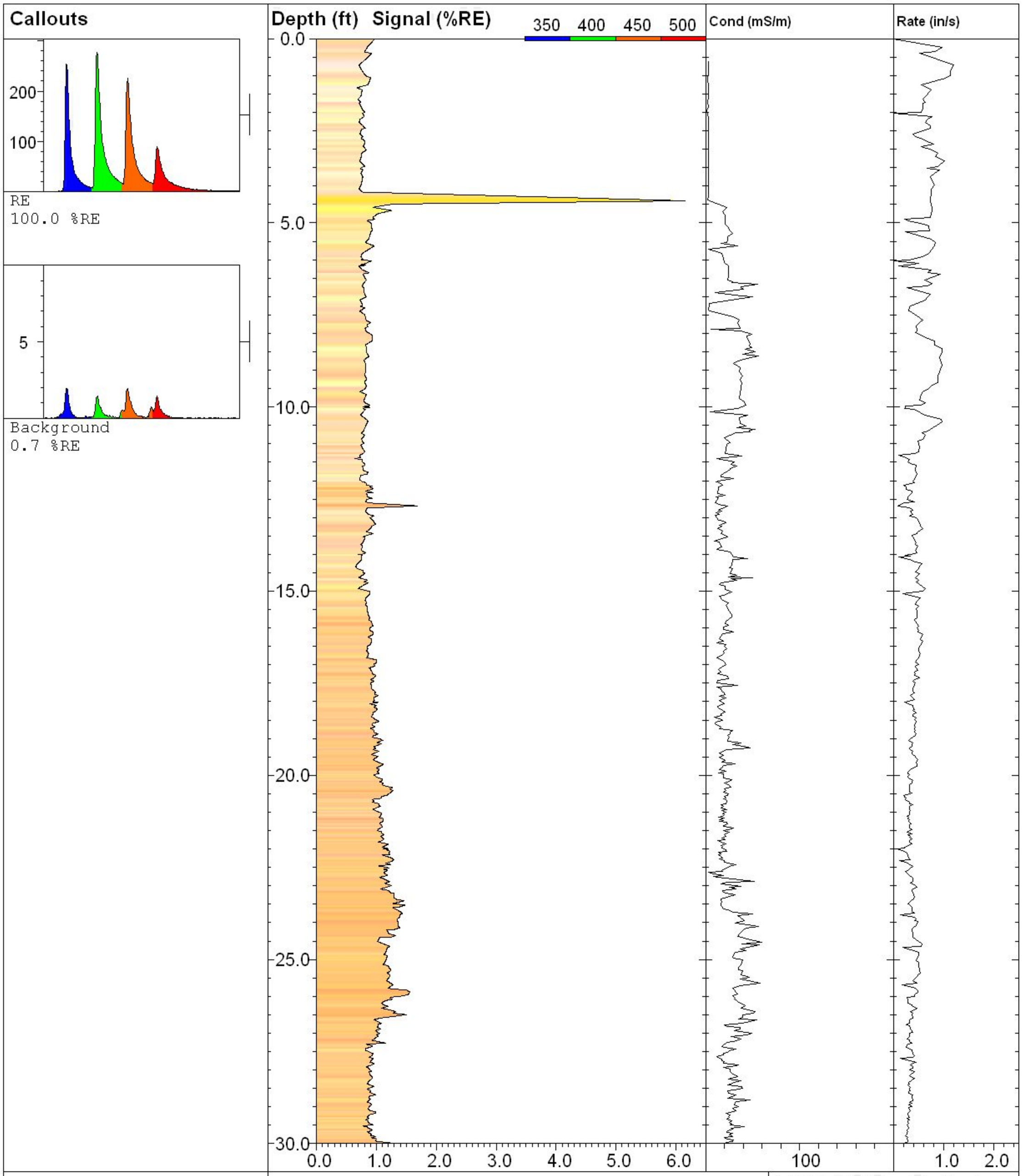


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-40-028**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **6.1 % @ 4.56 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-12 13:20 CDT**

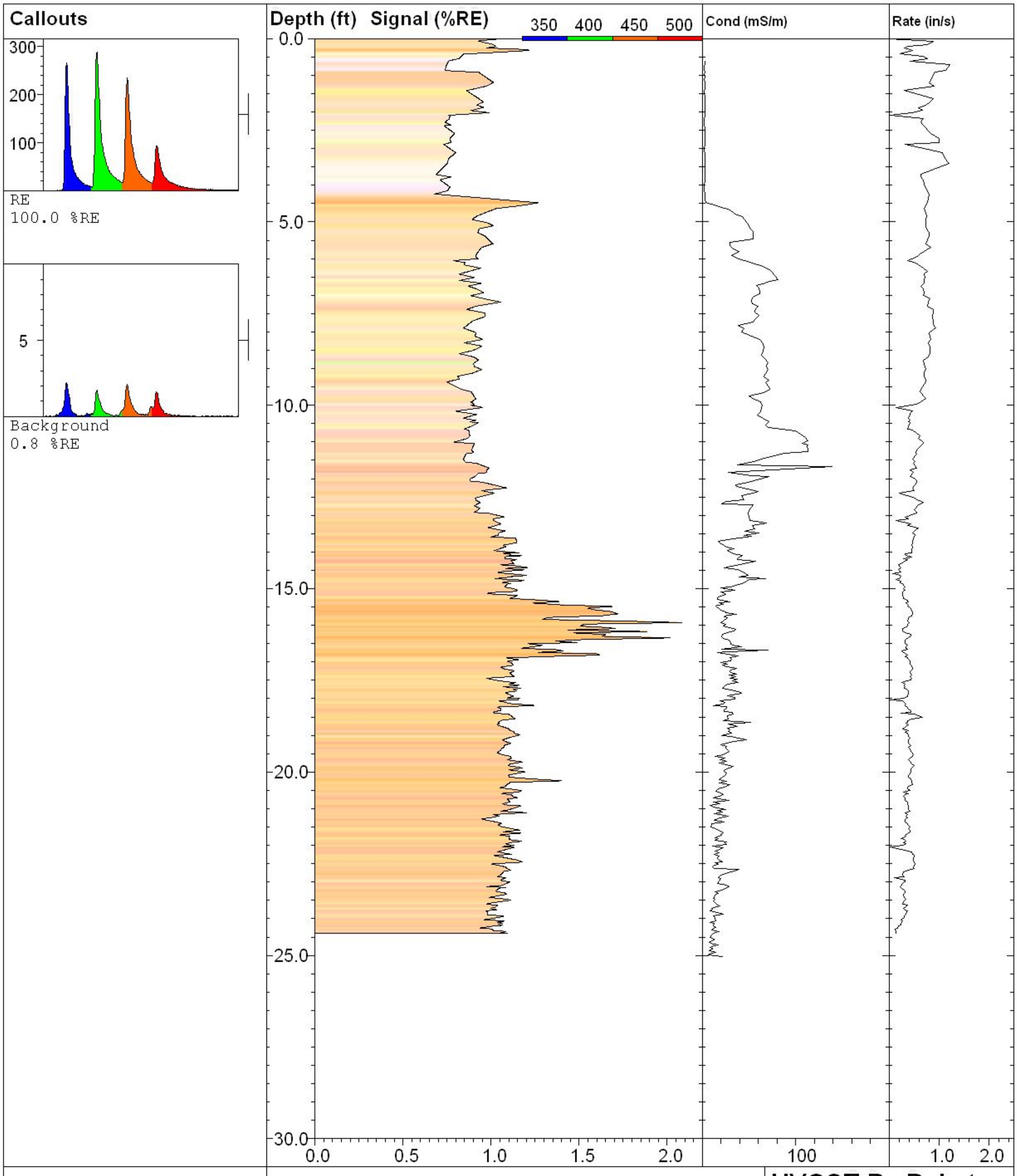


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-40-029**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **9.0 % @ 8.45 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-12 14:19 CDT**

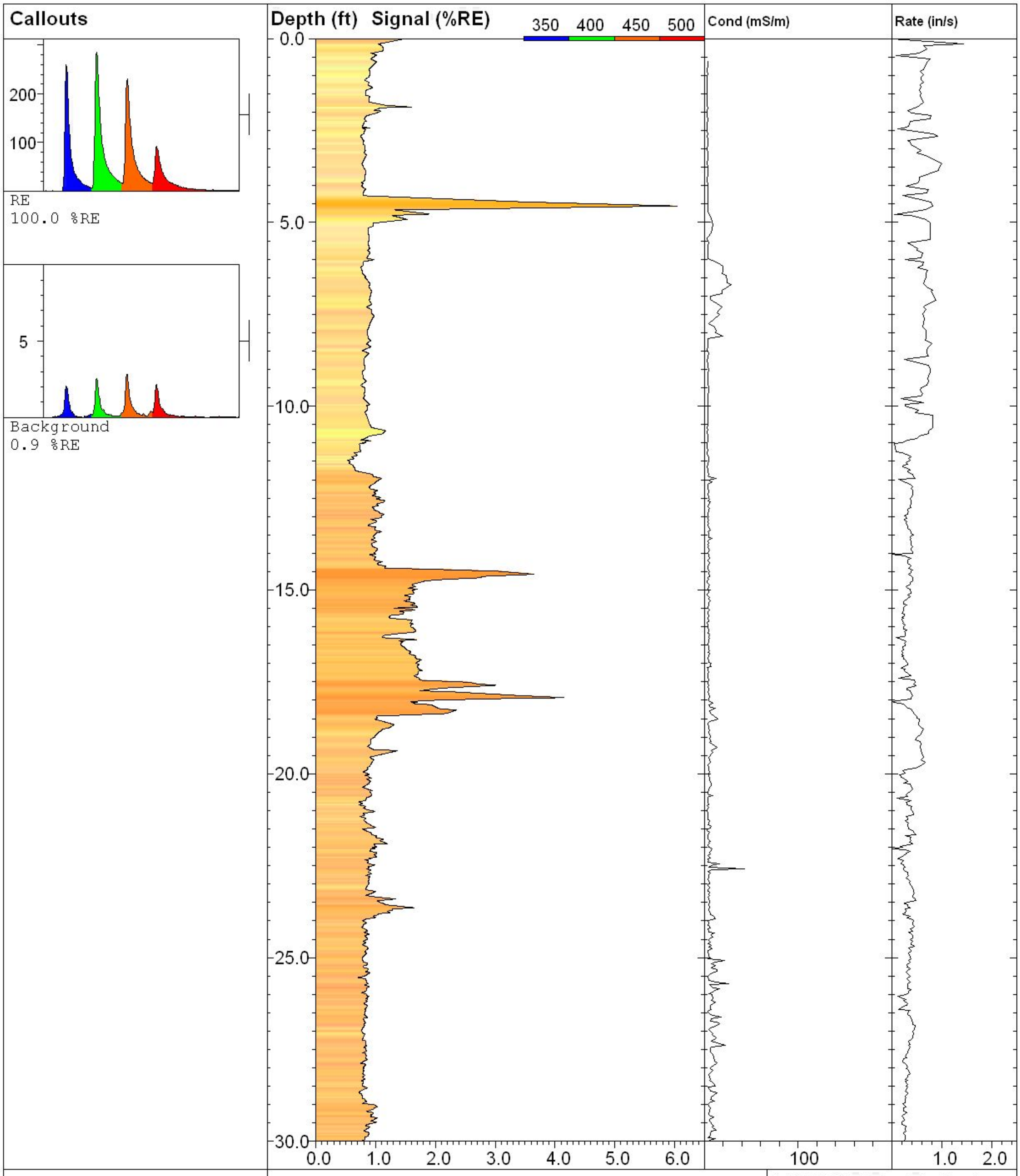
UVOST LOGS
@ Best Fit Scale



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-40-026**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **6.2 % @ 4.40 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-12 10:02 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-40-027**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **24.40 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **2.1 % @ 15.93 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-12 12:31 CDT**



LIF-40-028		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **6.1 % @ 4.56 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-12 13:20 CDT**

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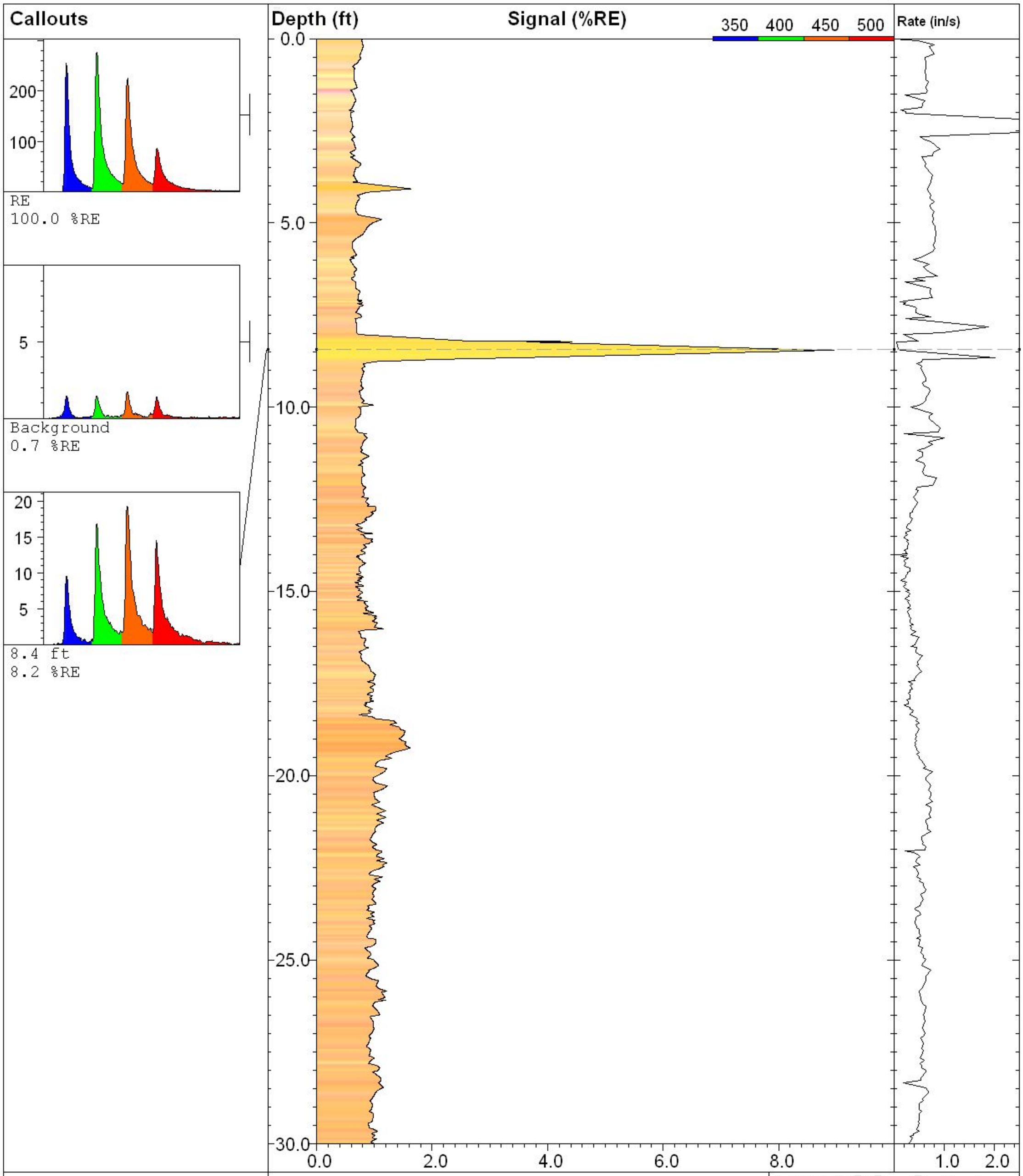


LIF-40-029		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.01 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **9.0 % @ 8.45 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-12 14:19 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

Buick City
Area 81

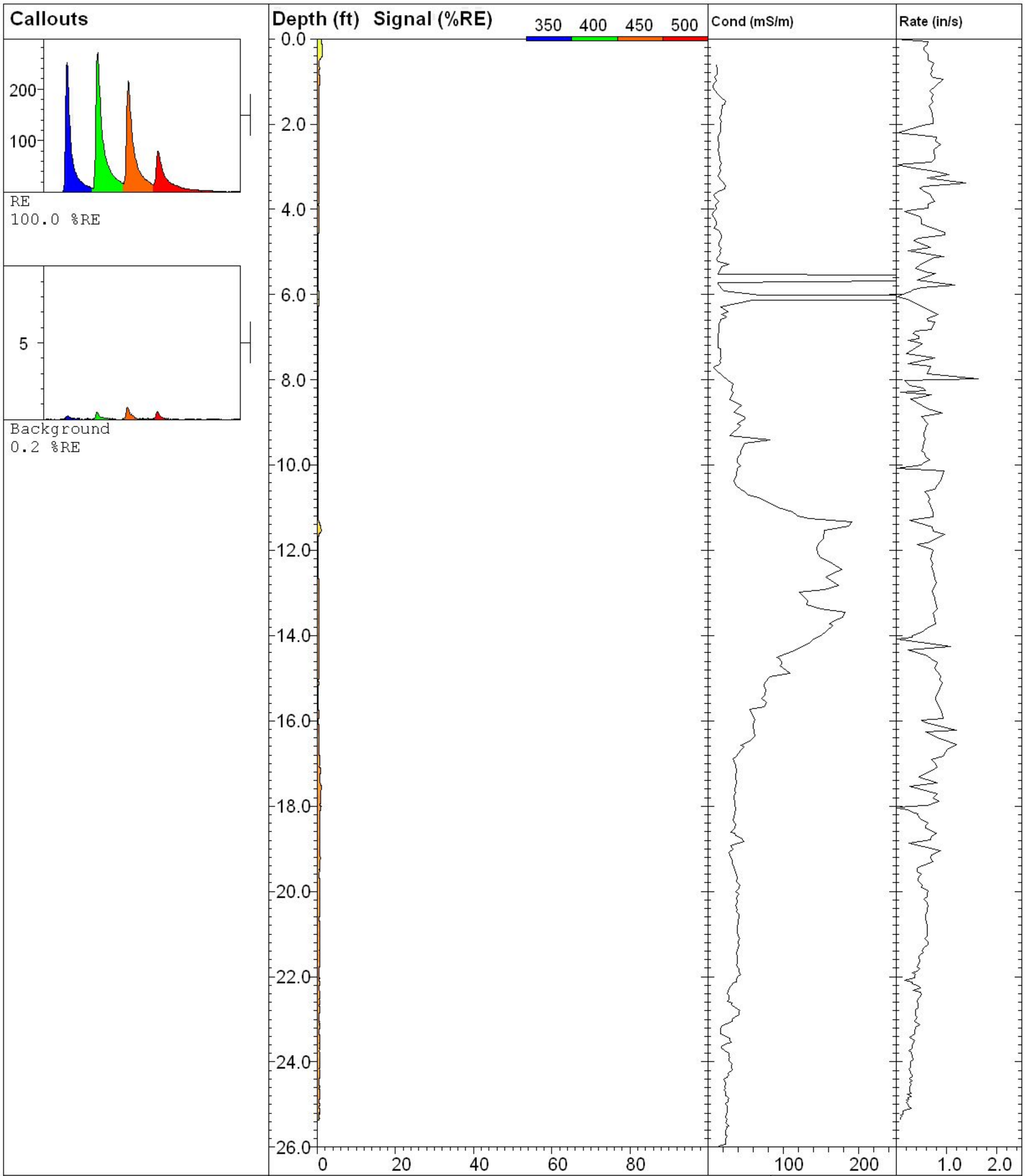
11253 91st Avenue North
Maple Grove, Minnesota
(763) 424-4803
fax (763) 424-9452

Client:	ARCADIS
Contact:	Megan Reightler
Services:	UVOST Logging
Date:	10/10/2011 - 10/29/2011
Project:	Buick City
Project #:	135-MNDS-11UV
Address:	Flint, MI

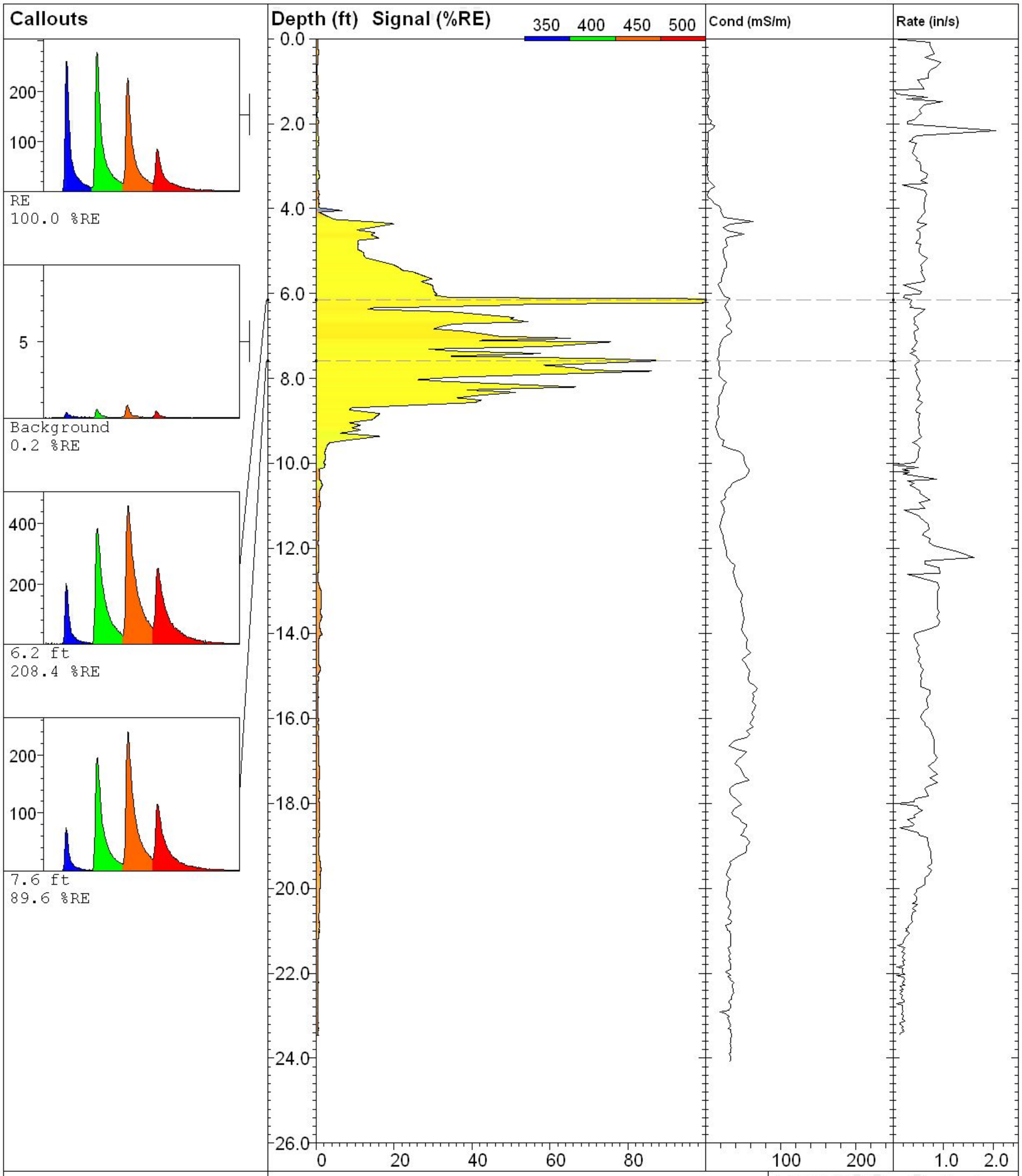
UVOST Log Summary

File	Date/Time	Latitude	Longitude	Final Depth *(ft)*	Max Signal *(%RE)*	Max. Signal Depth *(ft)*	Initial RE Area *(pVs)*	Background Area *(pVs)*	Fluorescence Top - Bottom *(ft)*
LIF-81-001	10/14/2011 16:16	NA	NA	25.4	1	0.4	11263	21	NA
LIF-81-002	10/15/2011 7:24	NA	NA	23.5	208	6.2	11418	27	5.0 - 10.6
LIF-81-003	10/15/2011 8:02	NA	NA	22.6	136	9.6	11312	33	5.9 - 11.8
LIF-81-004	10/15/2011 8:36	NA	NA	24.7	192	6.5	11857	36	5.0-12.1, 19.4-21.1
LIF-81-005	10/15/2011 9:14	NA	NA	23.0	33	5.2	11295	18	5.0 - 6.6
LIF-81-006	10/15/2011 9:47	NA	NA	24.5	3	0.0	11472	33	NA
LIF-81-007	10/15/2011 10:23	NA	NA	22.3	41	5.4	11649	24	5.0 - 7.5
LIF-81-008	10/15/2011 10:54	NA	NA	36.2	5	6.7	11666	22	5.2 - 7.8
LIF-81-009	10/15/2011 12:17	NA	NA	20.5	112	6.0	11641	25	5.0 - 9.3
LIF-81-010	10/15/2011 12:55	NA	NA	23.3	6	0.5	11697	32	NA
LIF-81-011	10/15/2011 13:37	NA	NA	6.0	4	0.0	11710	22	NA

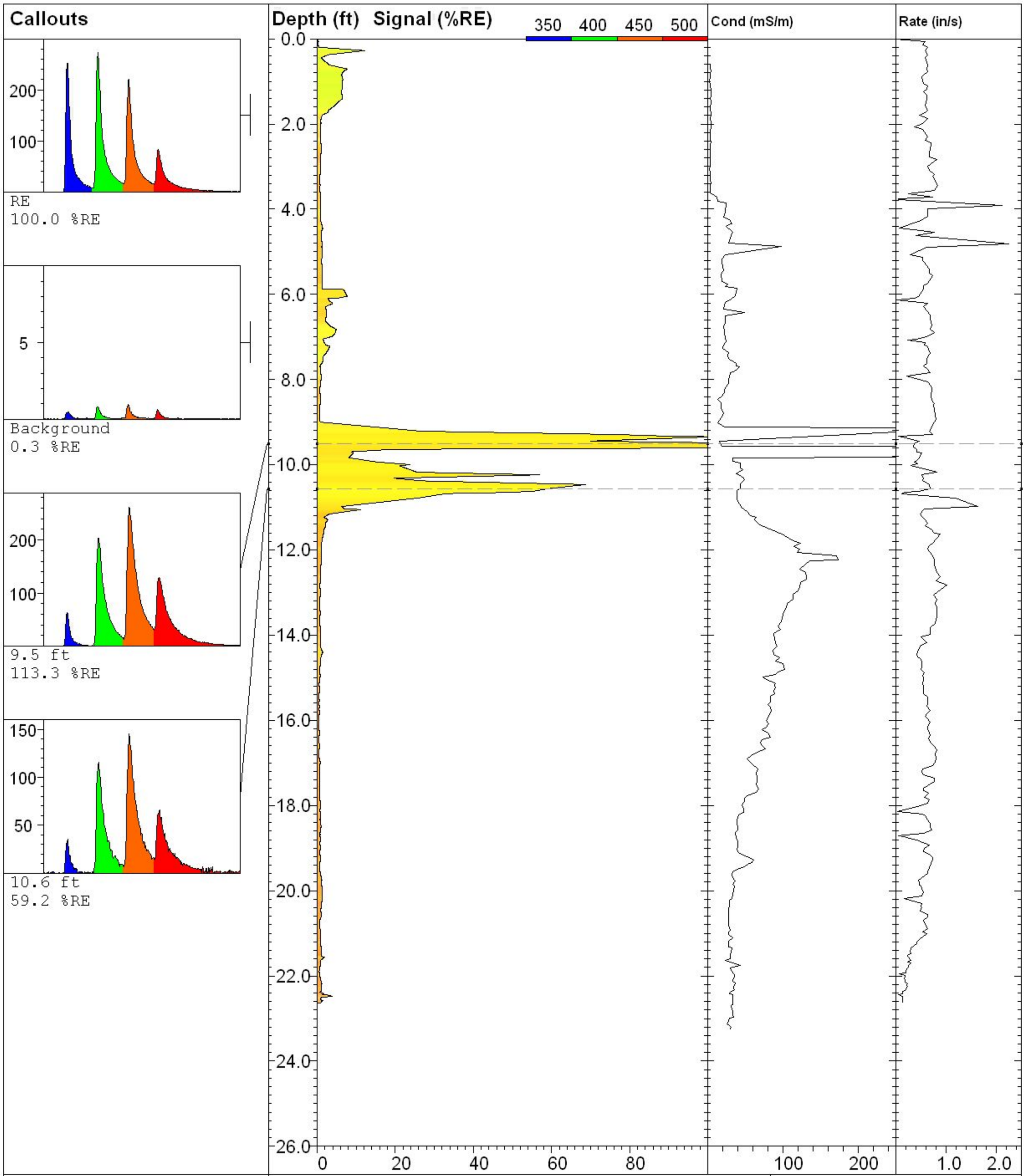
UVOST LOGS
@ 100% RE



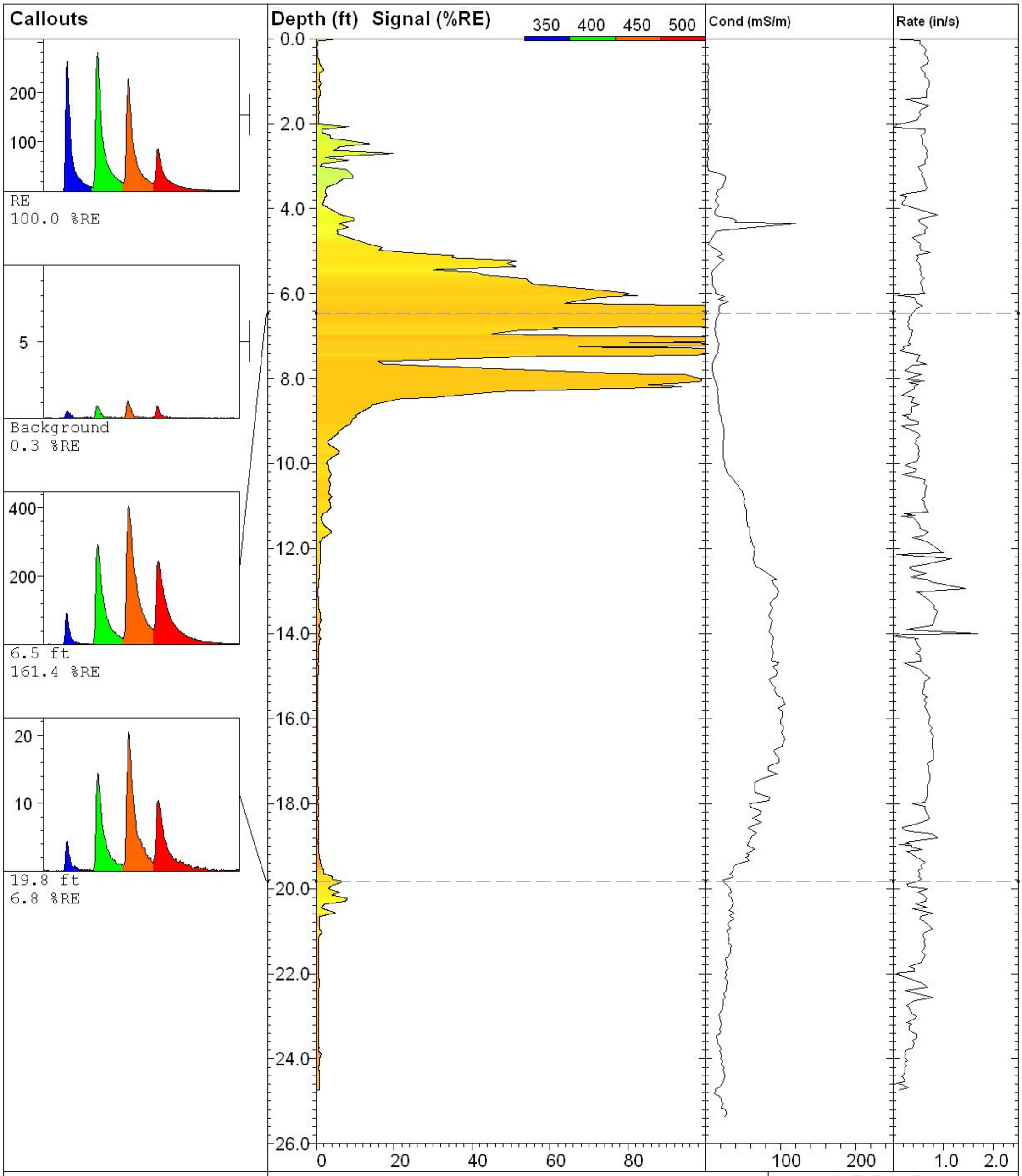
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-81-001**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **25.36 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.3 % @ 0.35 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-14 16:16 CDT**



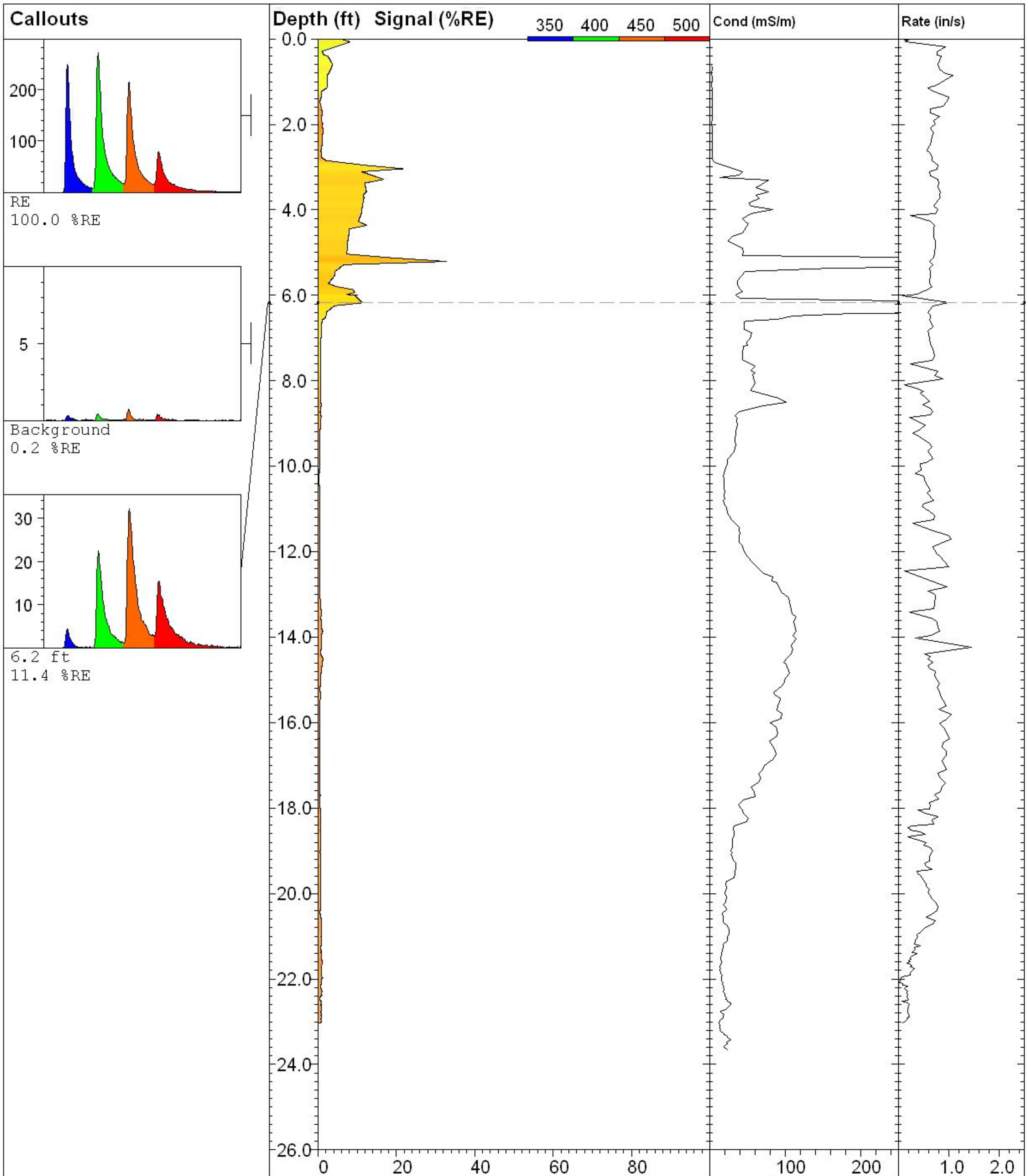
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-81-002**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **23.46 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **208.4 % @ 6.15 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-15 07:24 CDT**



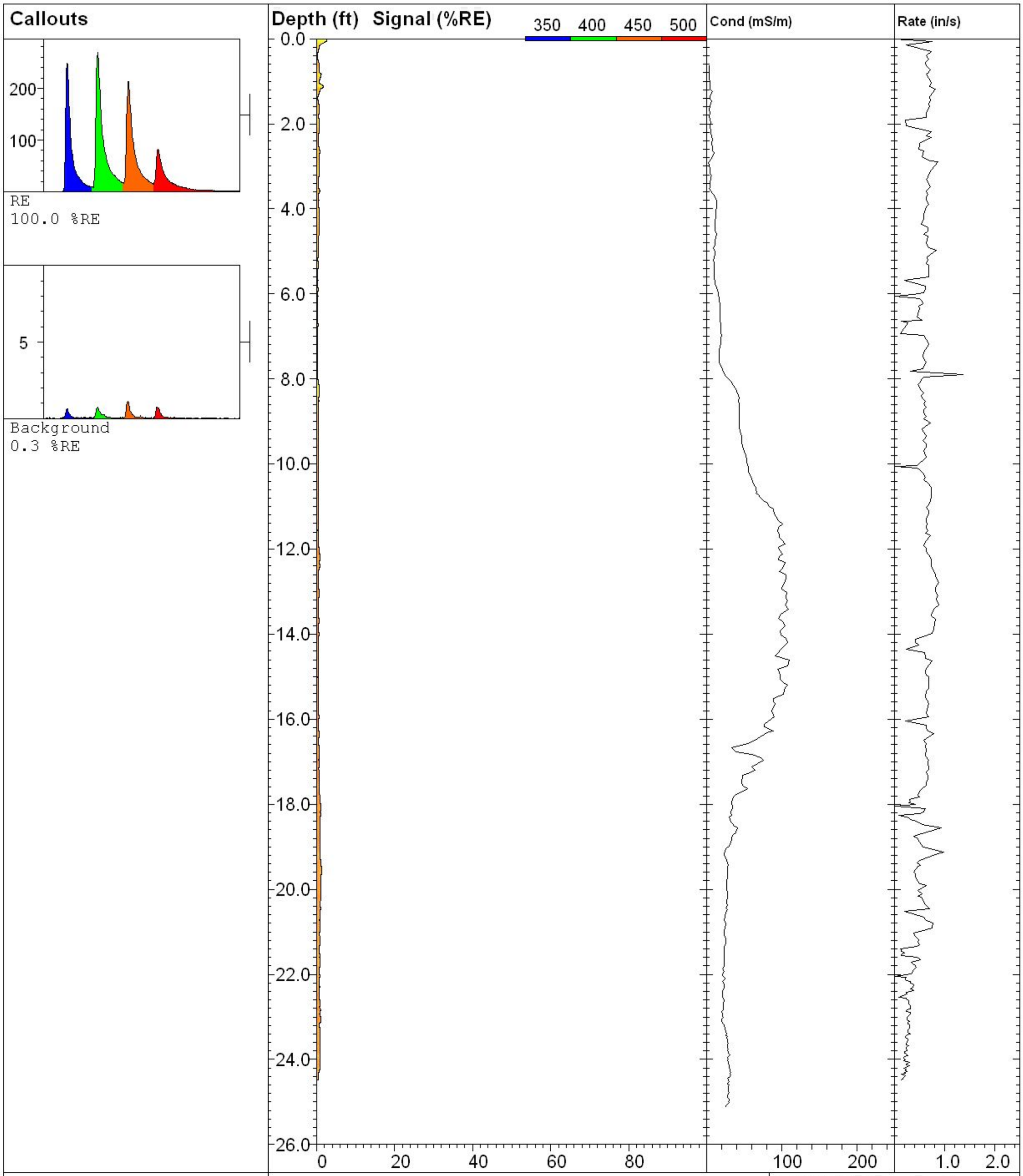
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-81-003**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **22.64 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **136.0 % @ 9.59 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-15 08:02 CDT**



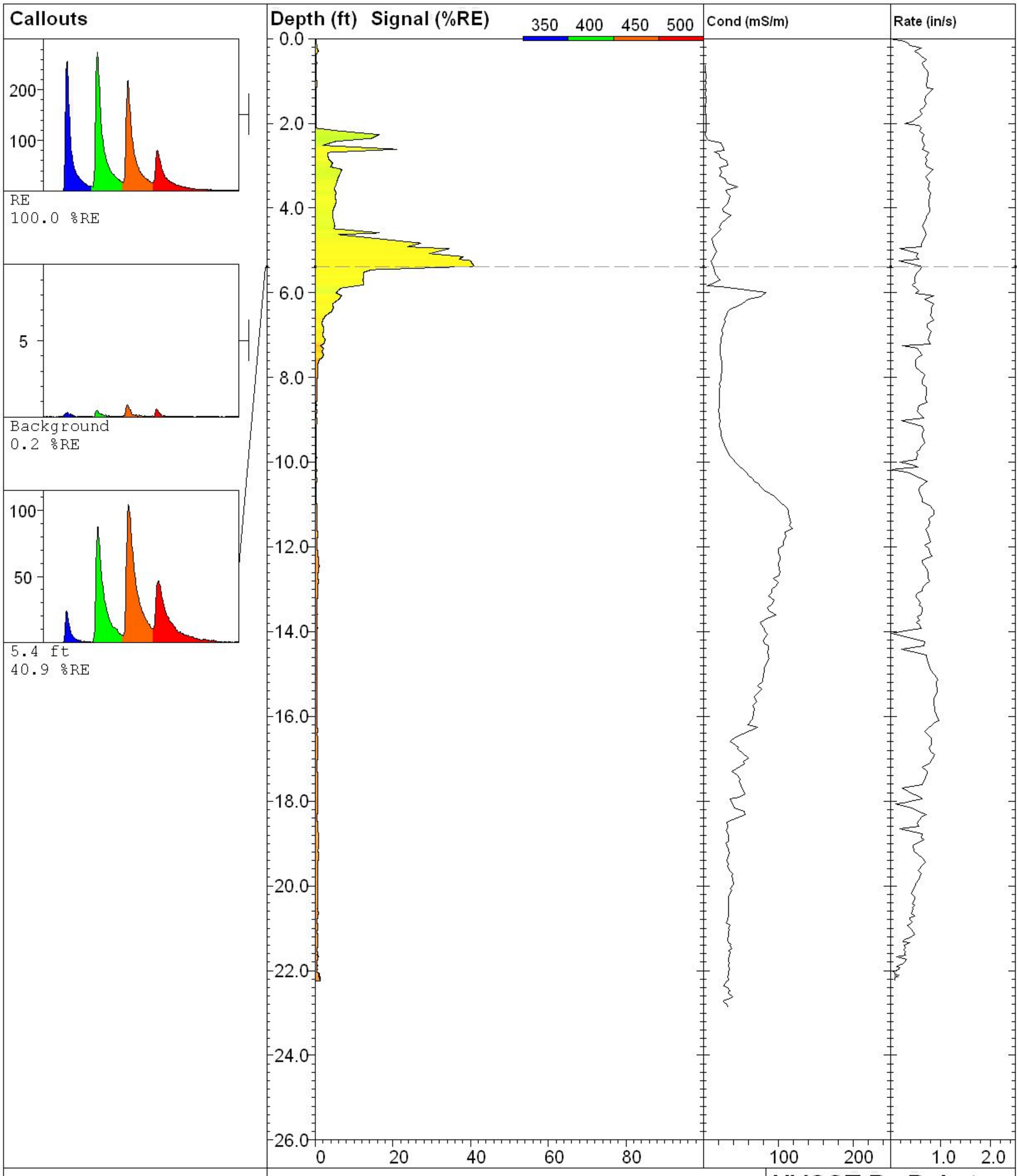
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-81-004**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **24.73 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **192.5 % @ 6.51 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-15 08:36 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-81-005**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **23.03 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **32.8 % @ 5.21 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-15 09:14 CDT**

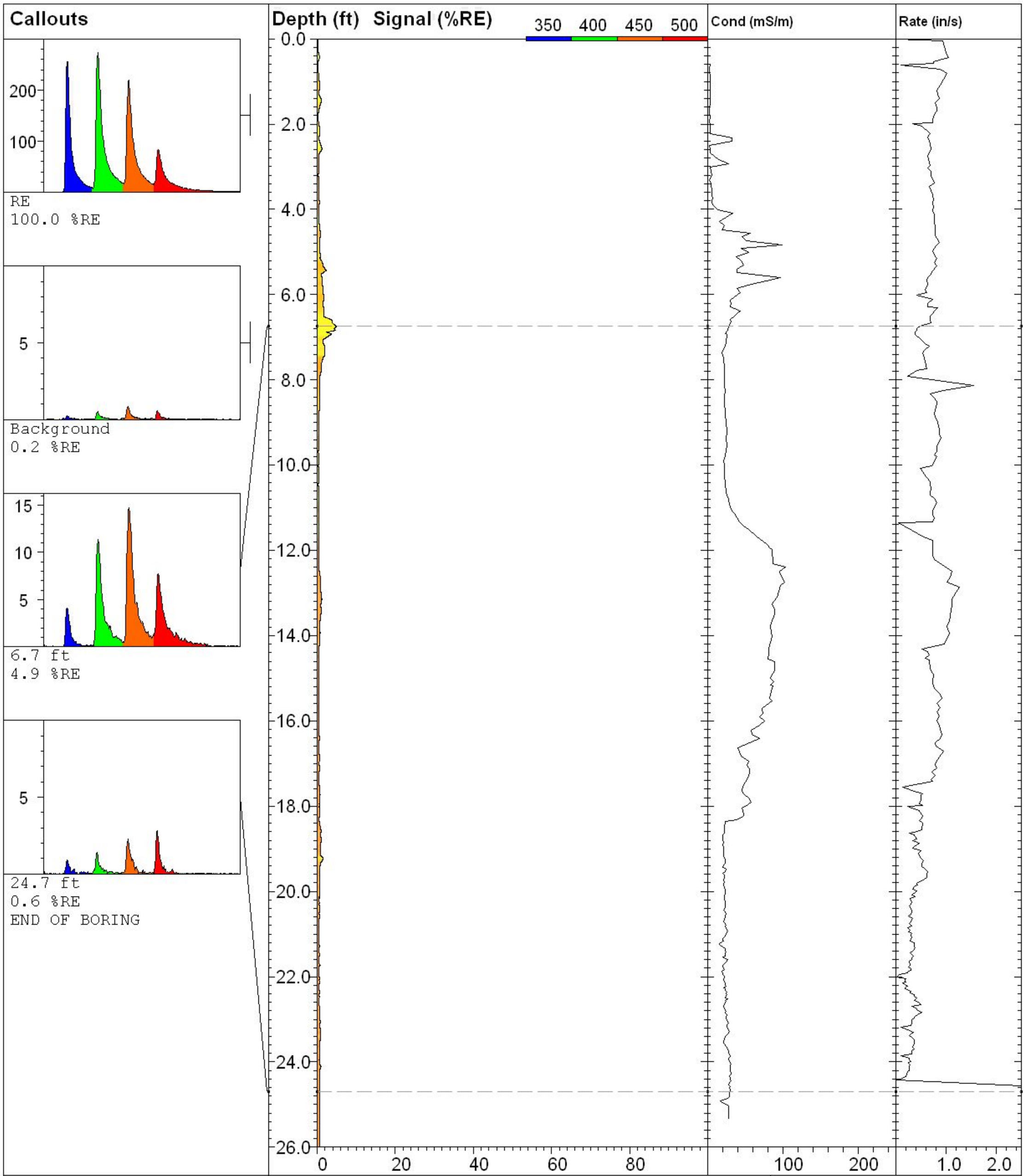


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-81-006**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **24.49 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **2.7 % @ 0.00 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-15 09:47 CDT**

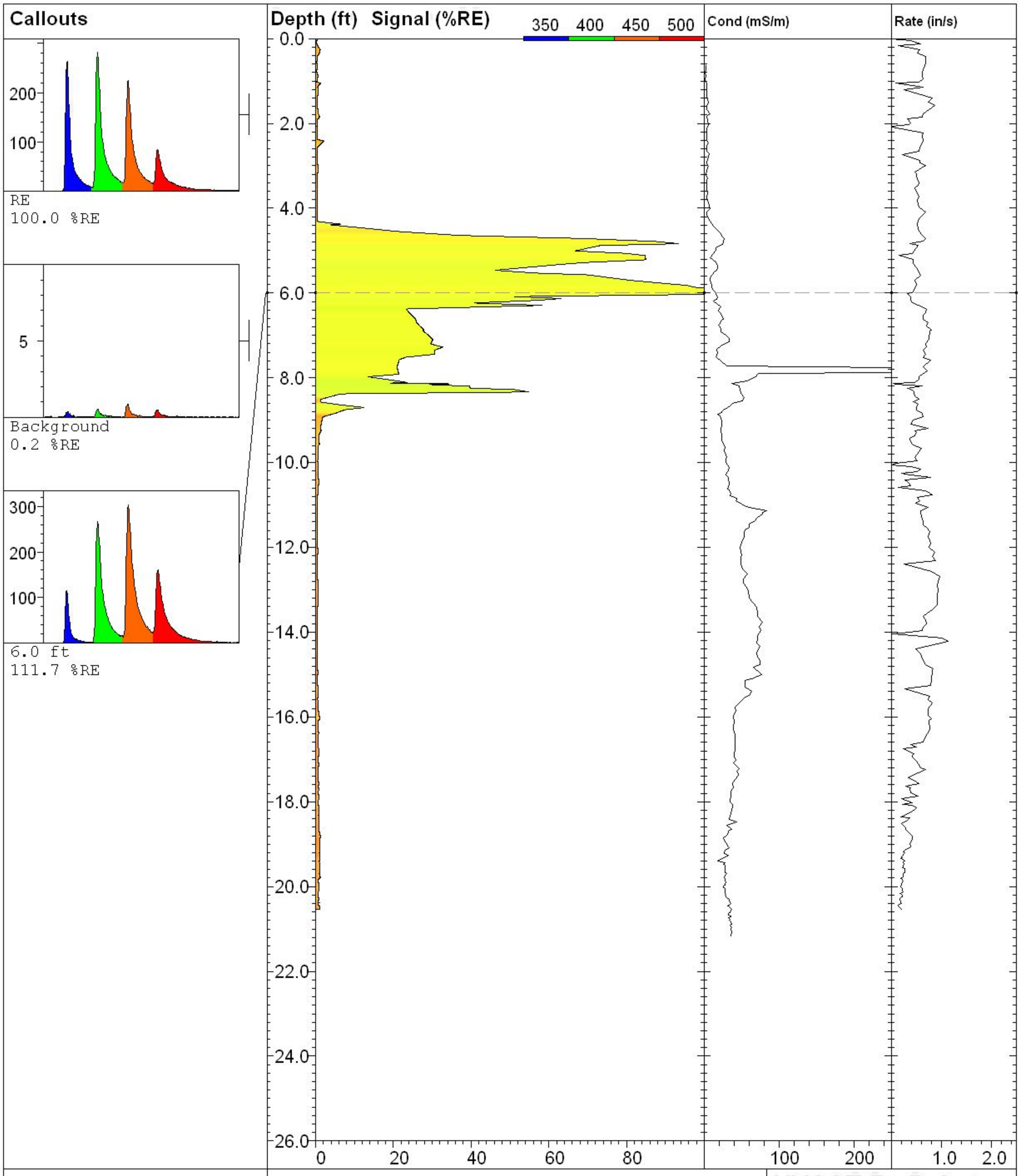


LIF-81-007		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **22.25 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **40.9 % @ 5.38 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-15 10:23 CDT**

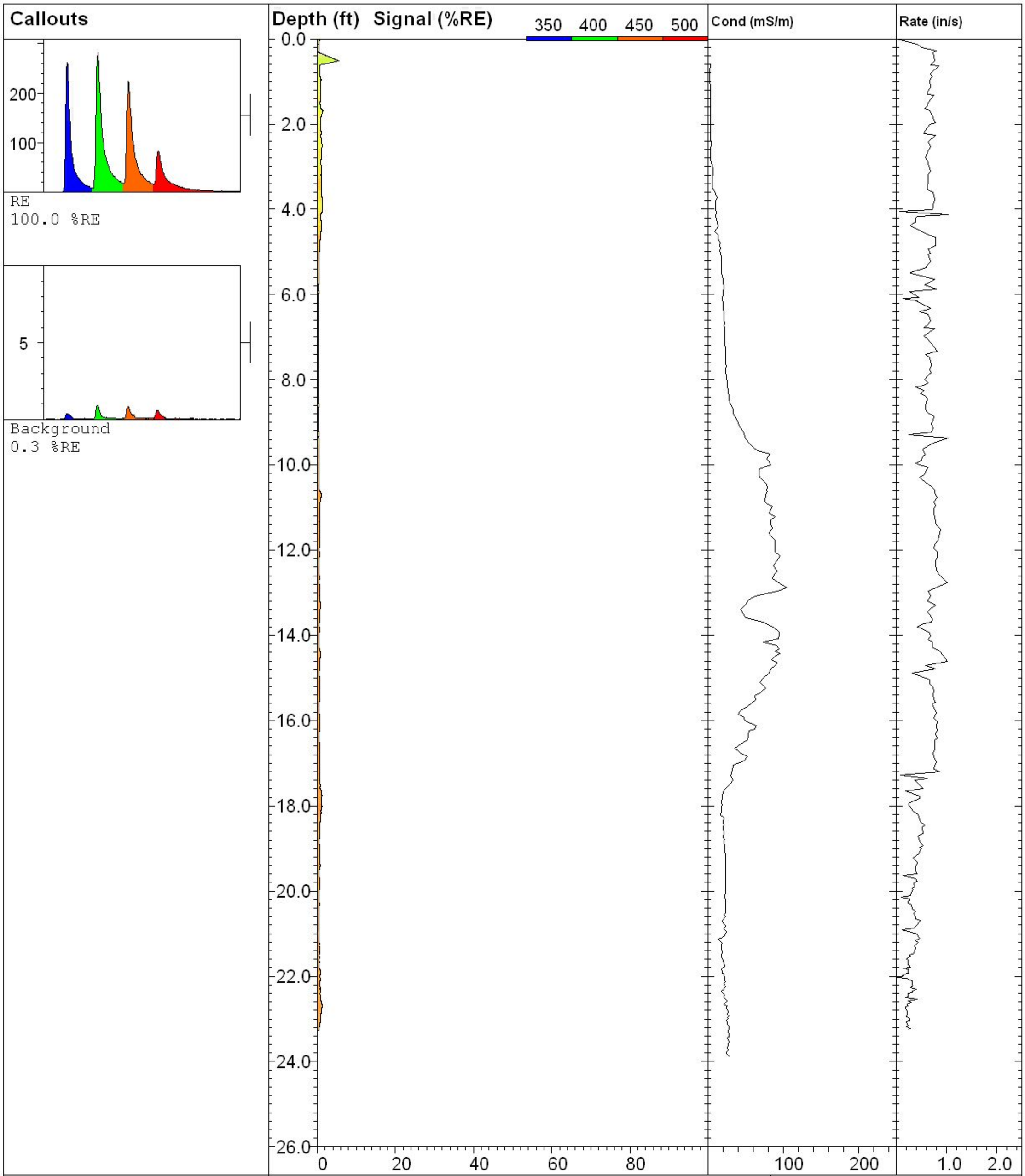
MATRIX ENVIRONMENTAL LLC
www.matrixenv.com



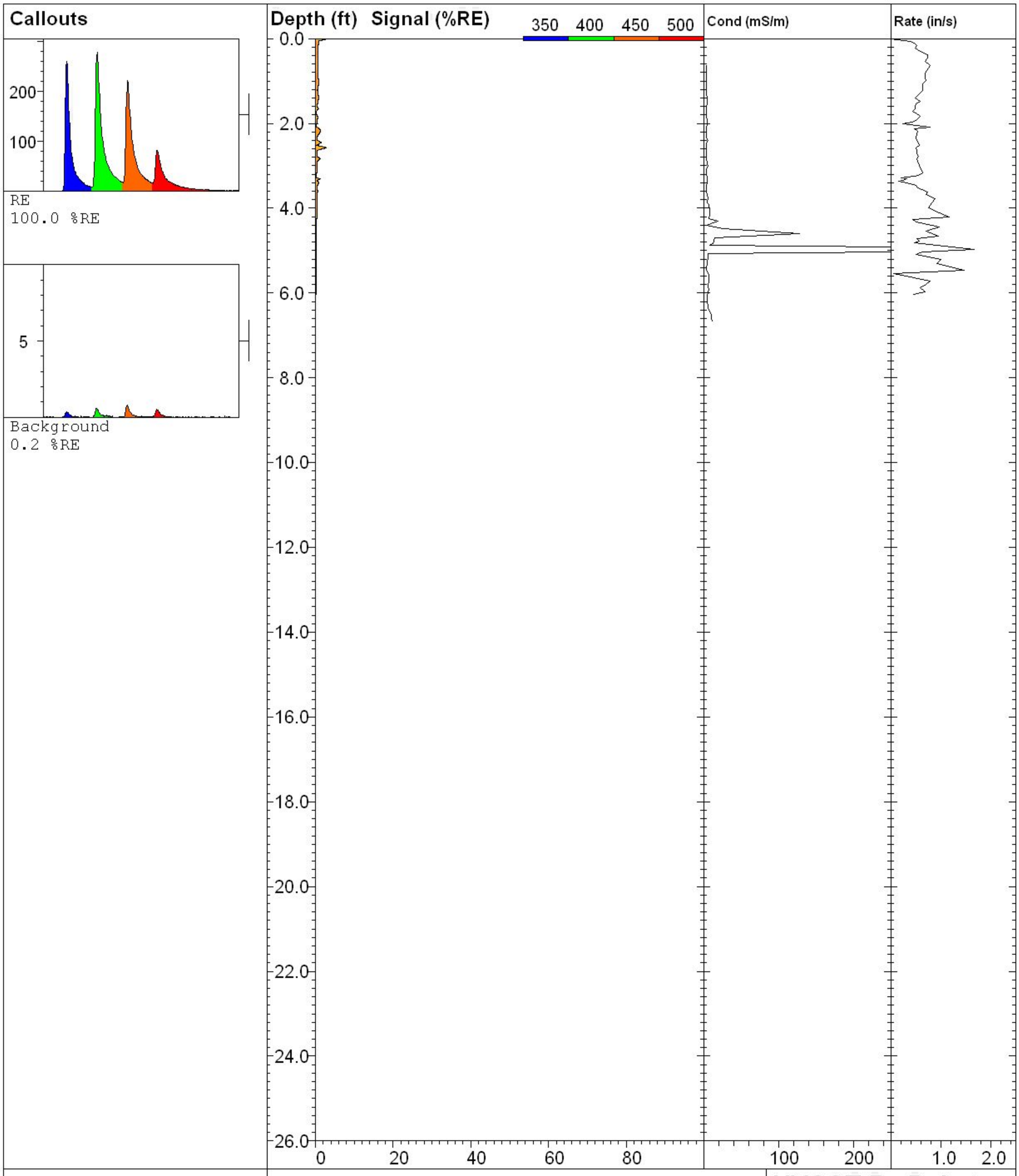
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-81-008**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **36.20 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **4.9 % @ 6.75 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-15 10:54 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-81-009**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **20.54 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **111.7 % @ 5.99 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-15 12:17 CDT**

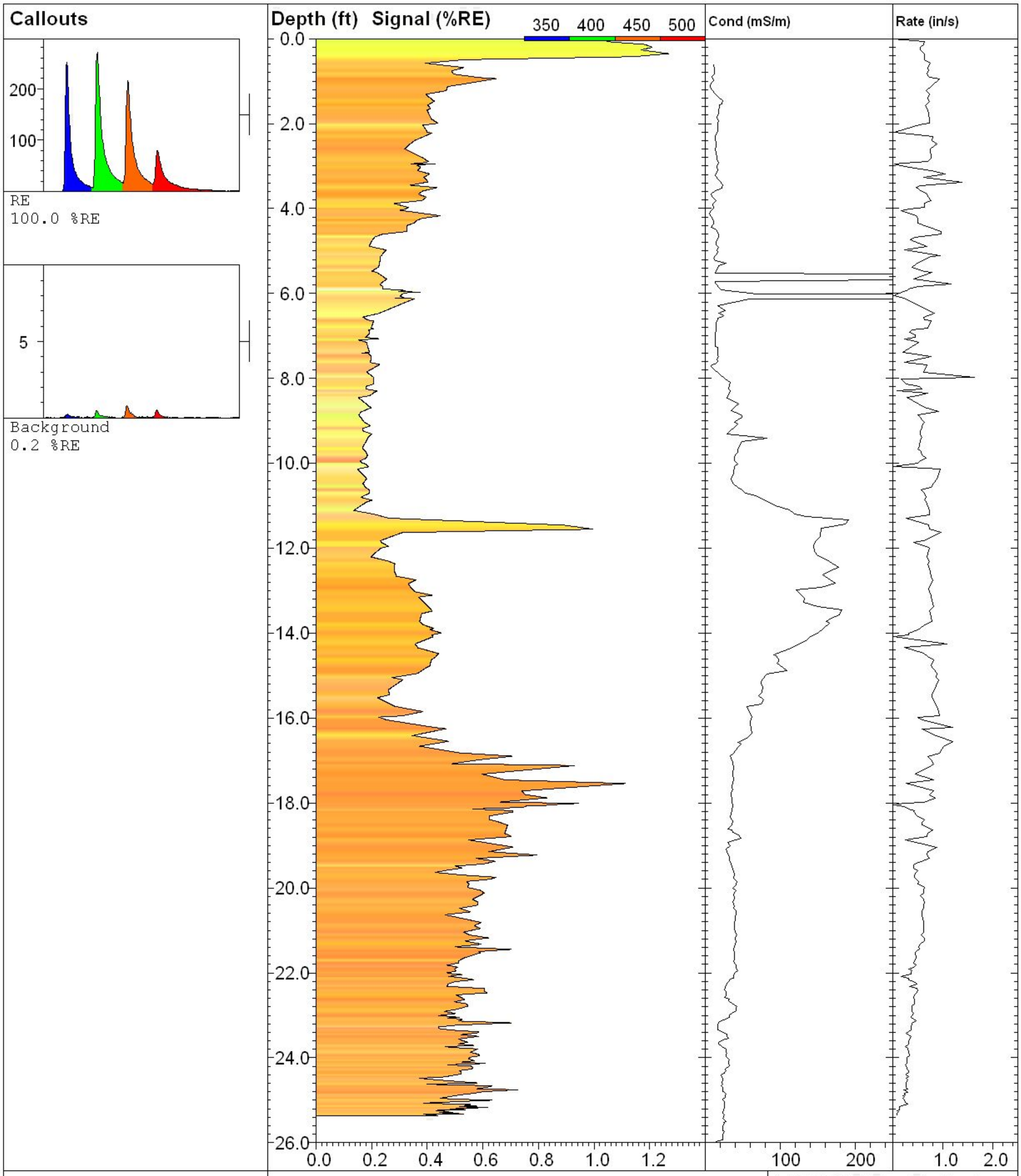


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-81-010**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **23.26 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **5.5 % @ 0.52 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-15 12:55 CDT**

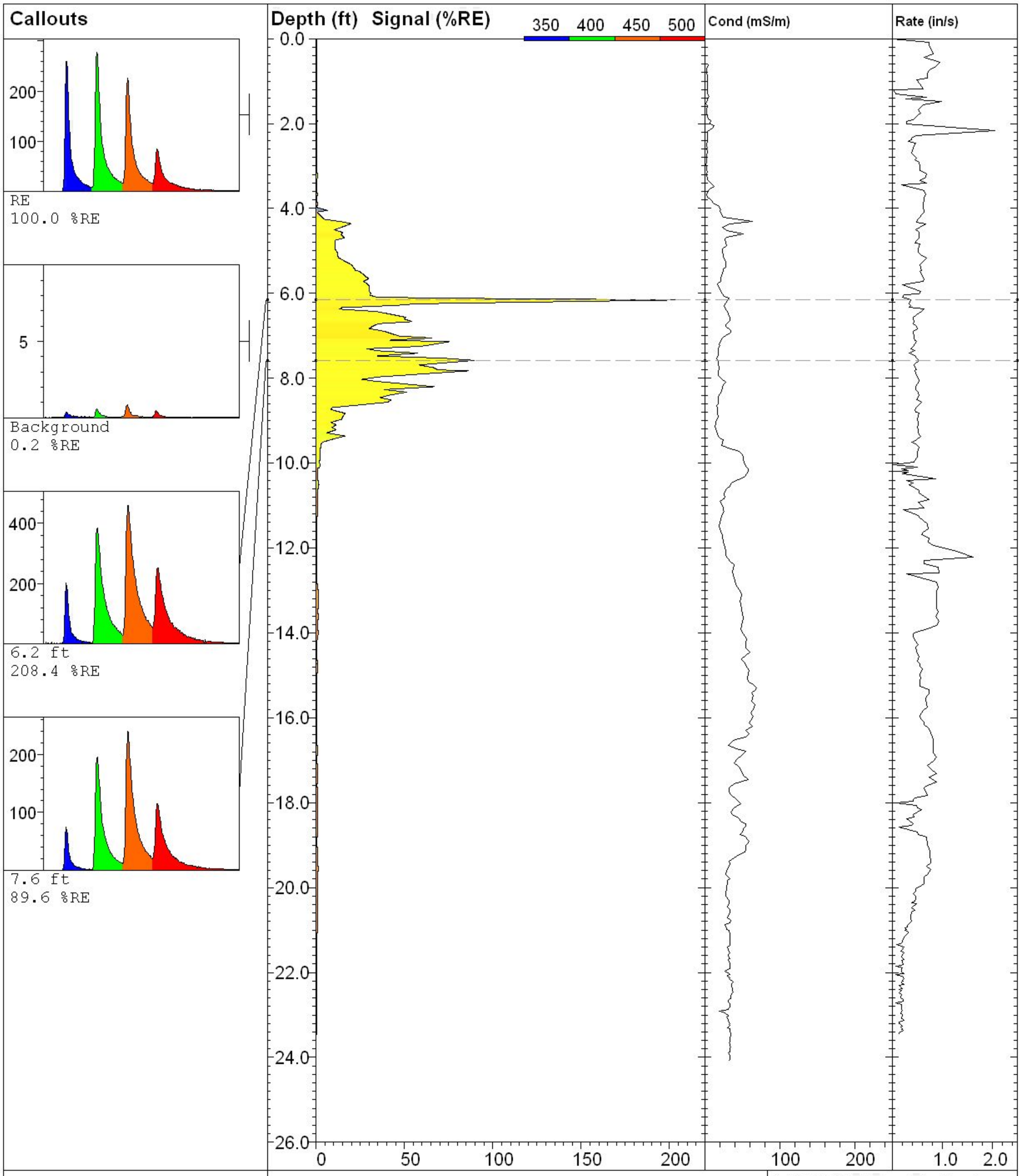


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-81-011**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **6.03 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **3.5 % @ 0.00 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-15 13:37 CDT**

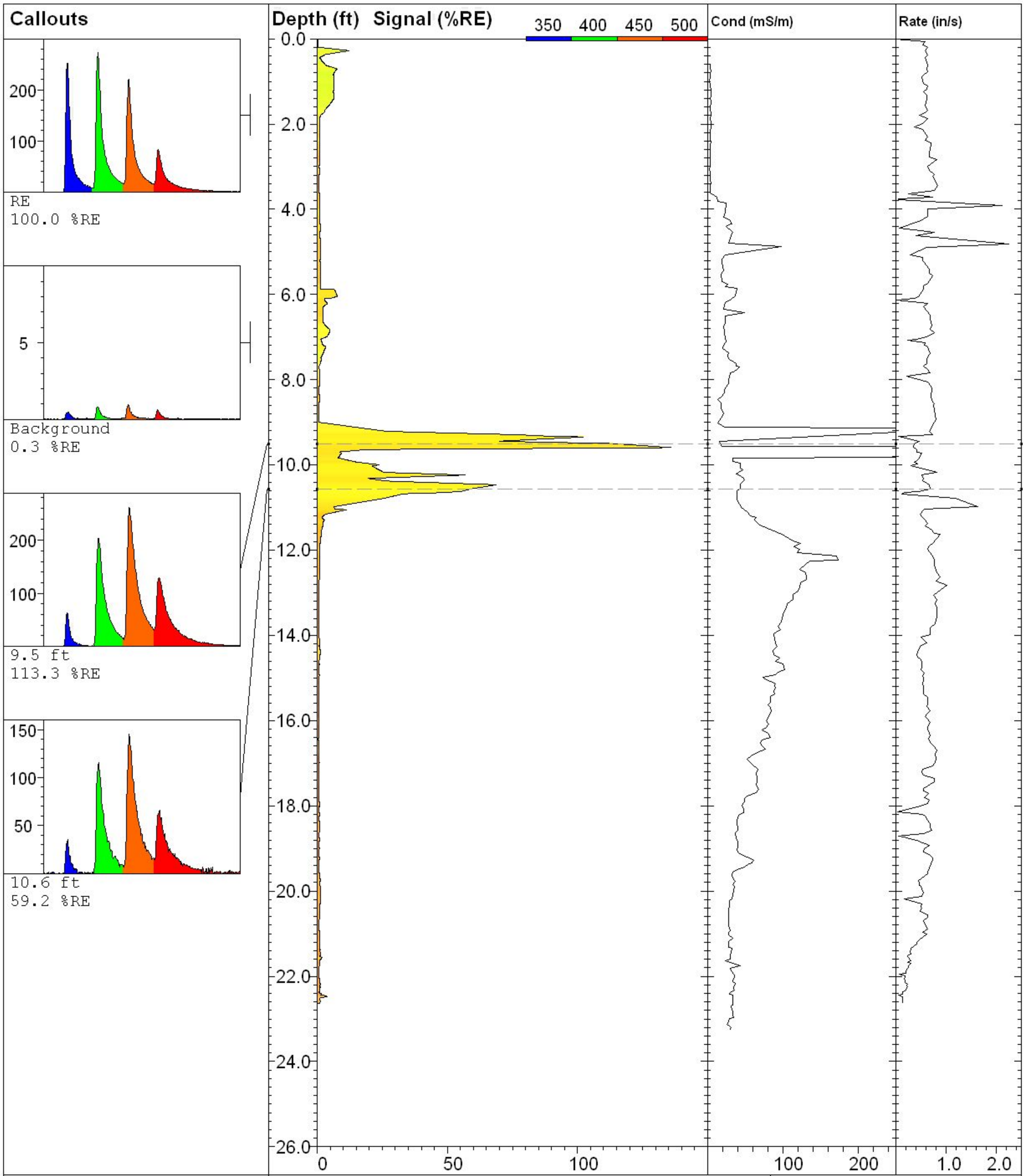
UVOST LOGS
@ Best Fit Scale



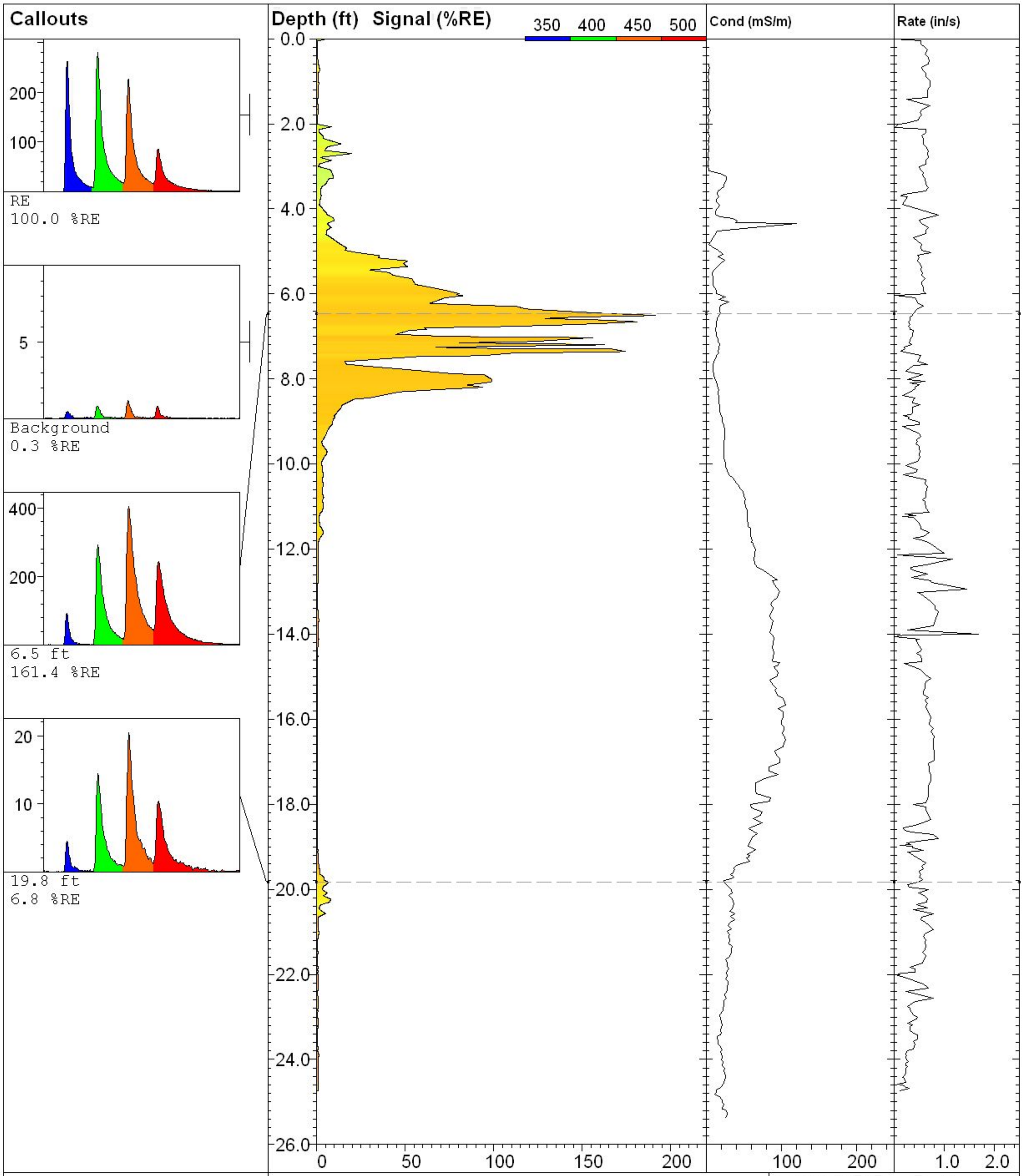
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-81-001**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **25.36 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.3 % @ 0.35 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-14 16:16 CDT**



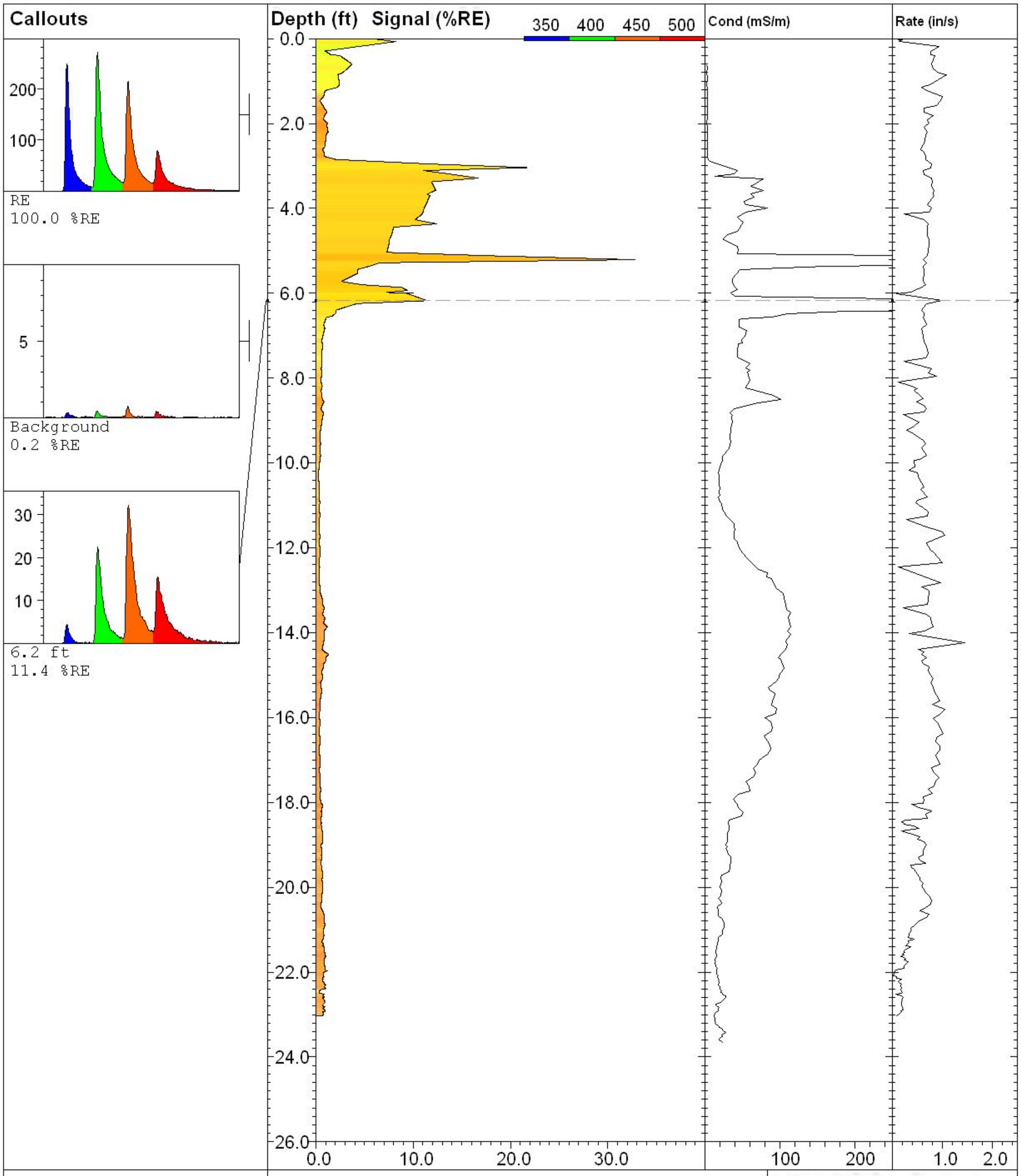
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-81-002**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **23.46 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **208.4 % @ 6.15 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-15 07:24 CDT**



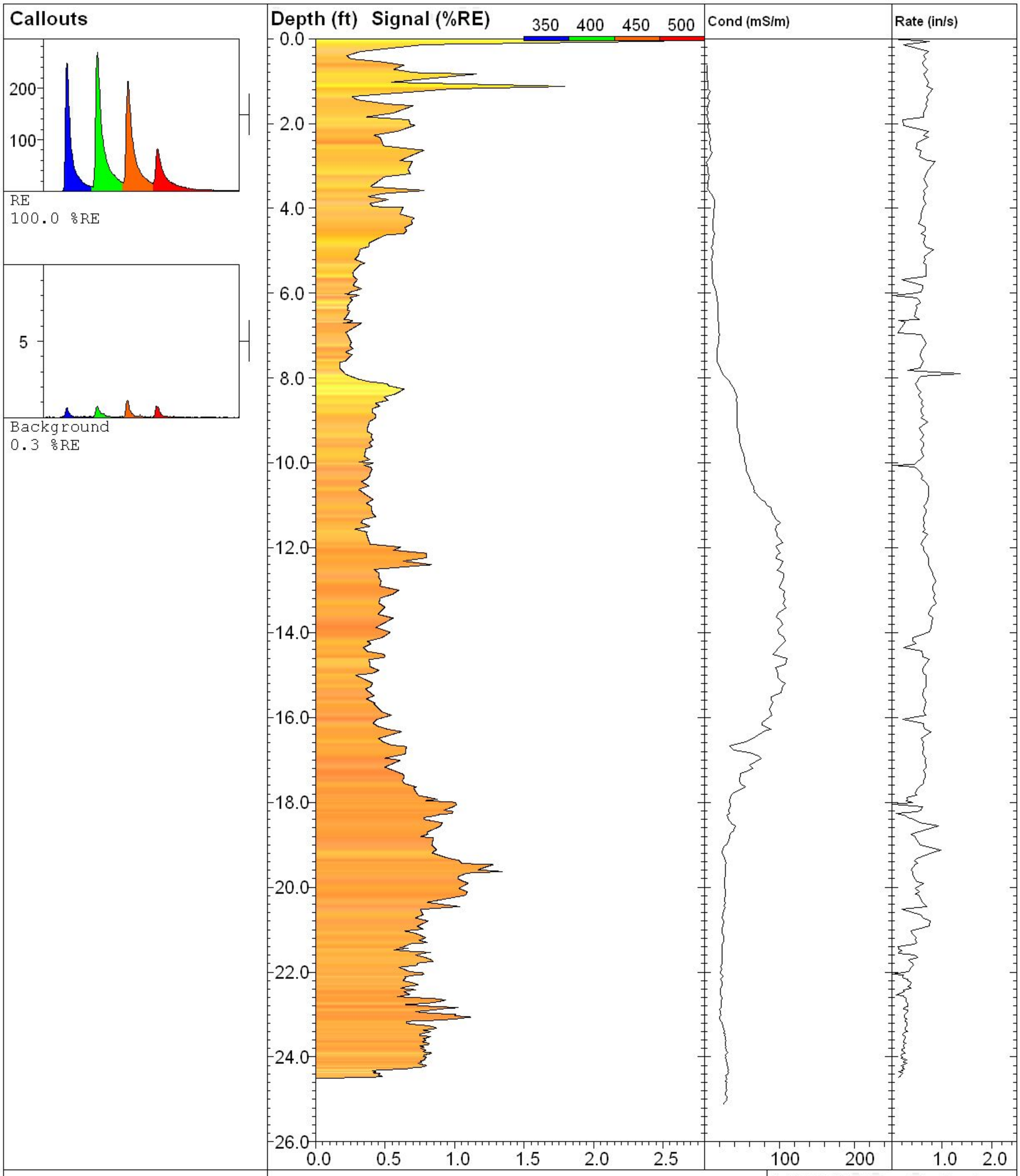
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-81-003**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **22.64 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **136.0 % @ 9.59 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-15 08:02 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-81-004**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **24.73 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **192.5 % @ 6.51 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-15 08:36 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-81-005**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **23.03 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **32.8 % @ 5.21 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-15 09:14 CDT**

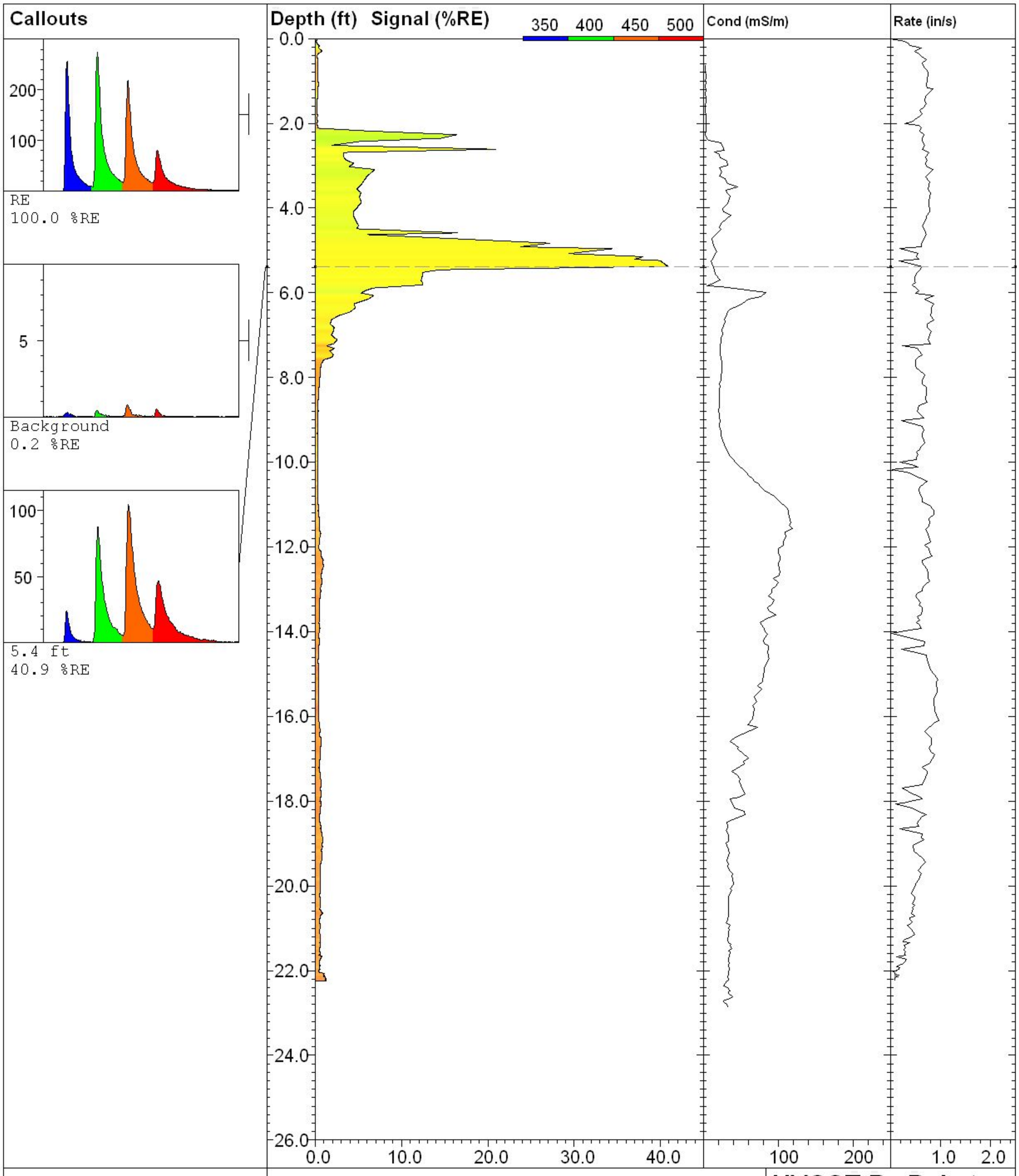


MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

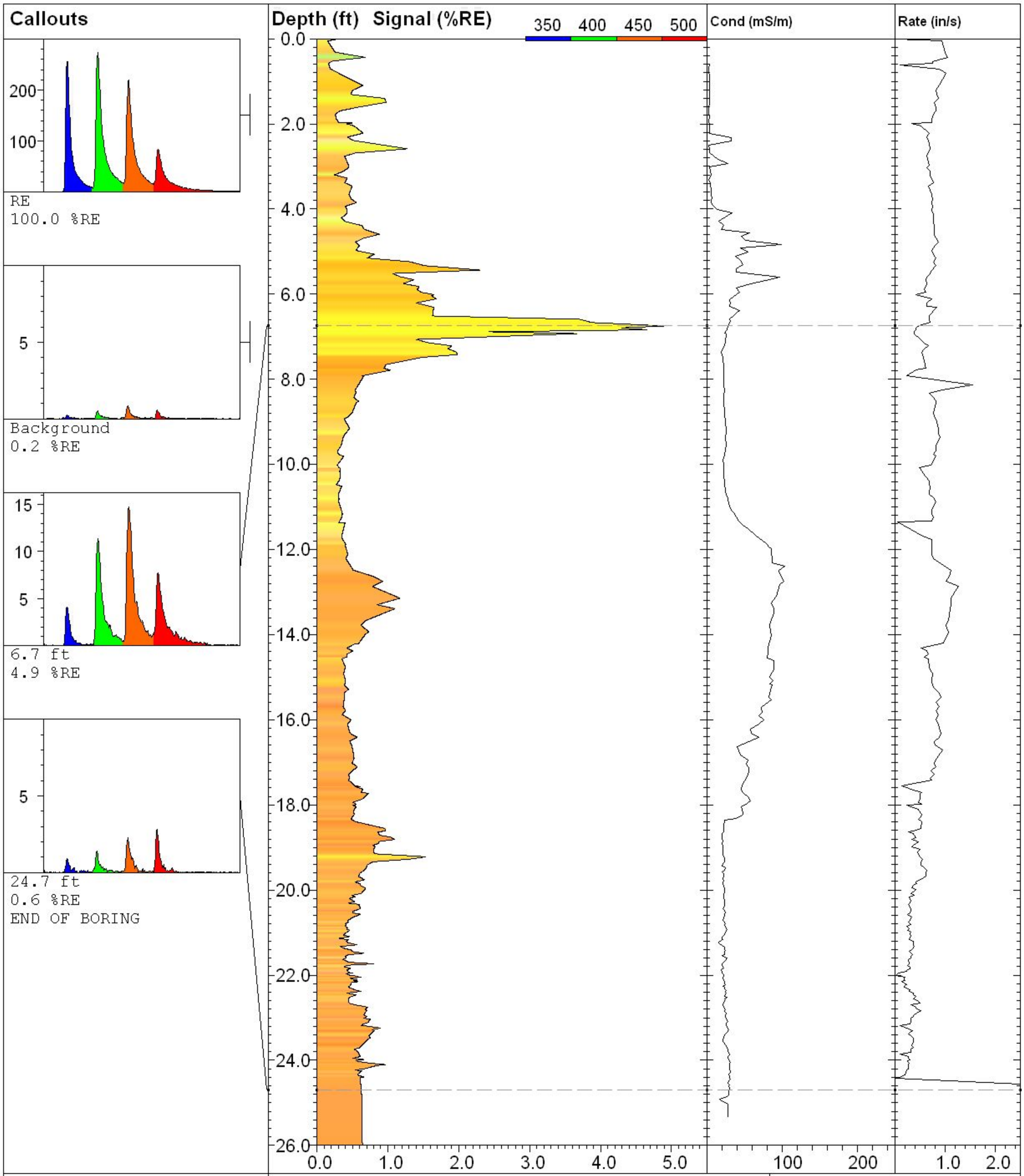
LIF-81-006

UVOST By Dakota
www.DakotaTechnologies.com

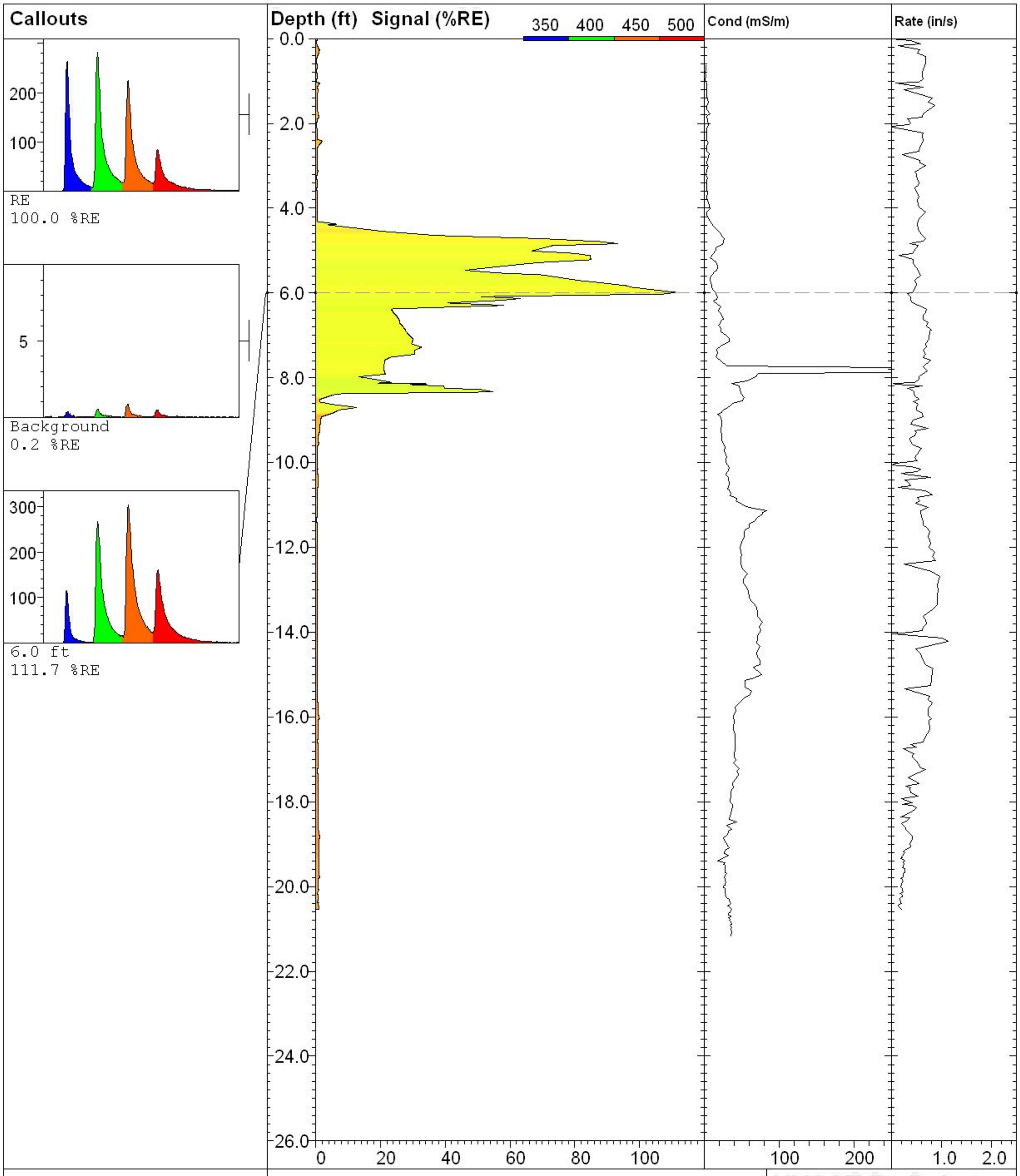
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **24.49 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **2.7 % @ 0.00 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-15 09:47 CDT**



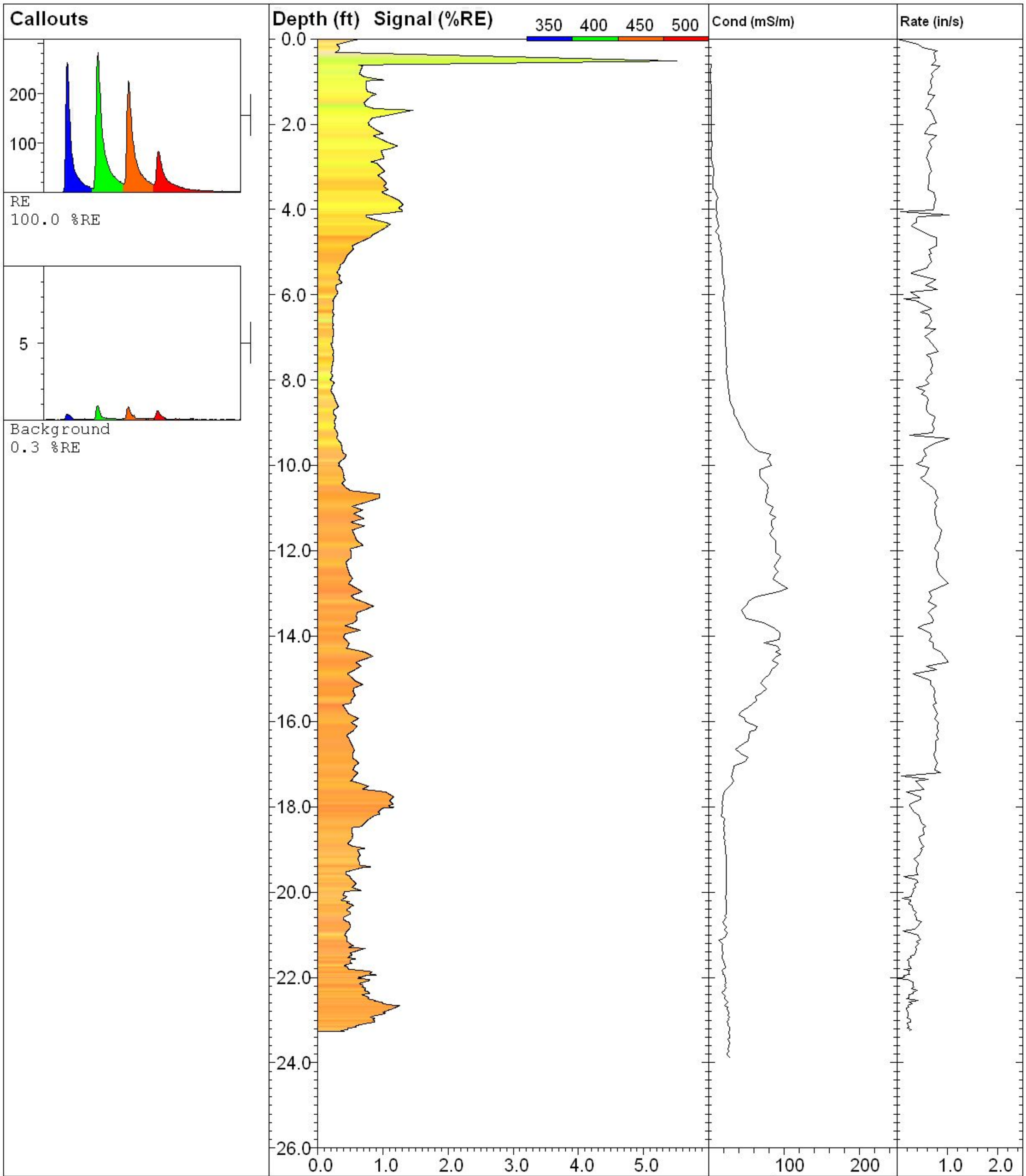
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-81-007**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **22.25 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **40.9 % @ 5.38 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-15 10:23 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-81-008**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **36.20 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **4.9 % @ 6.75 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-15 10:54 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-81-009**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **20.54 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **111.7 % @ 5.99 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-15 12:17 CDT**



LIF-81-010		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **23.26 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **5.5 % @ 0.52 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-15 12:55 CDT**

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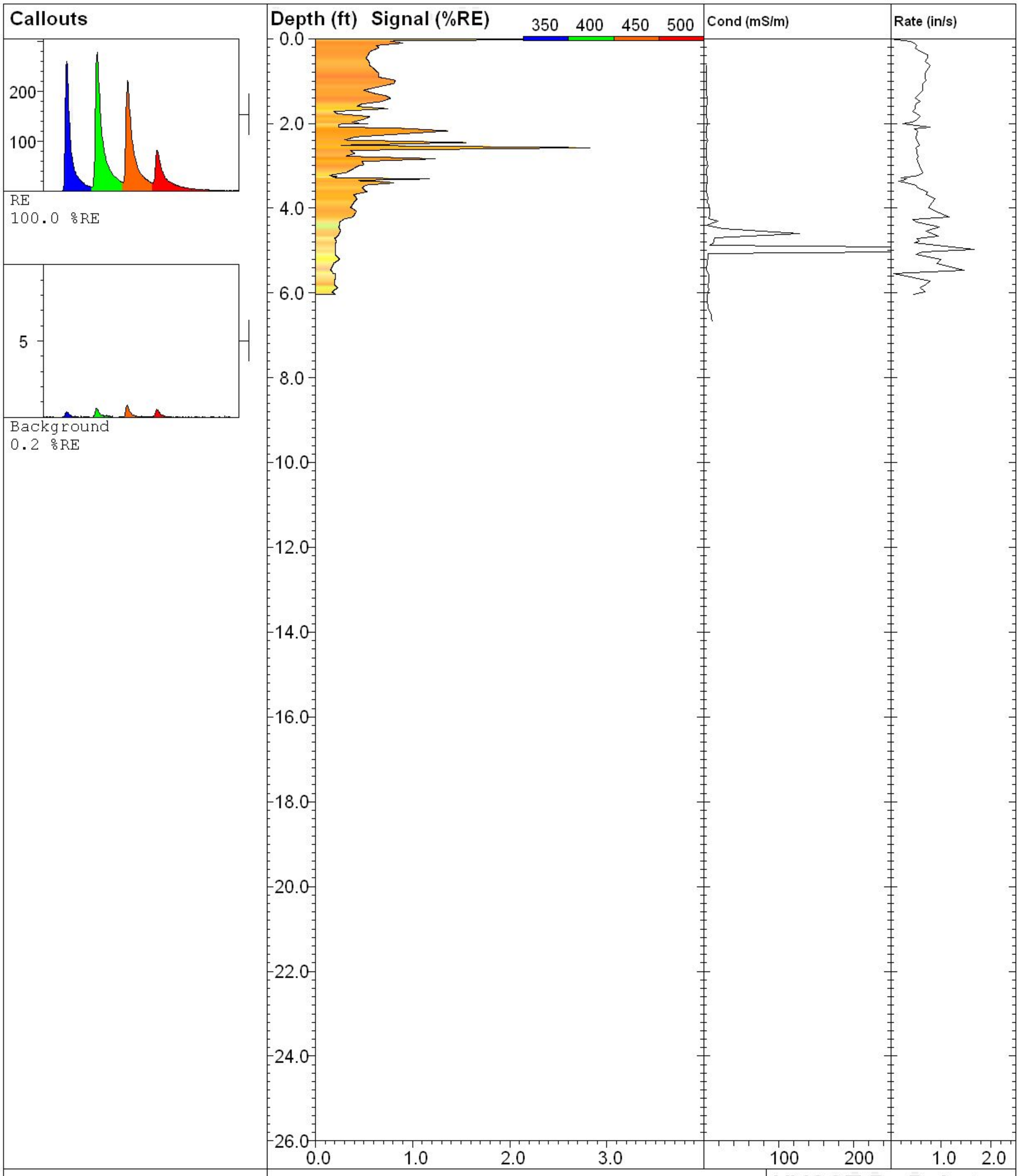
www.matrixenv.com



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-81-011**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **6.03 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **3.5 % @ 0.00 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-15 13:37 CDT**

Buick City
Area 83

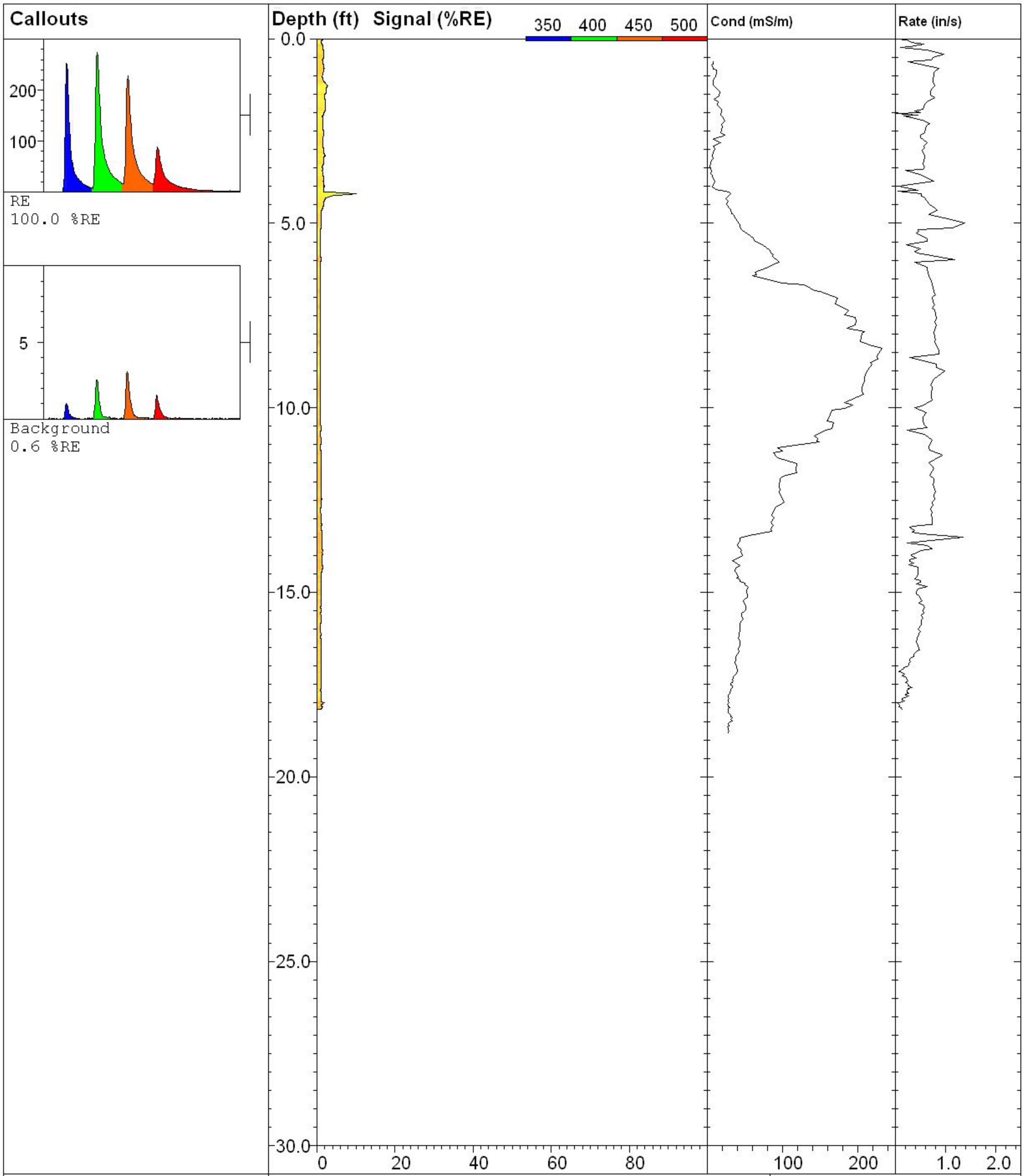
11253 91st Avenue North
Maple Grove, Minnesota
(763) 424-4803
fax (763) 424-9452

Client:	ARCADIS
Contact:	Megan Reightler
Services:	UVOST Logging
Date:	10/10/2011 - 10/29/2011
Project:	Buick City
Project #:	135-MNDS-11UV
Address:	Flint, MI

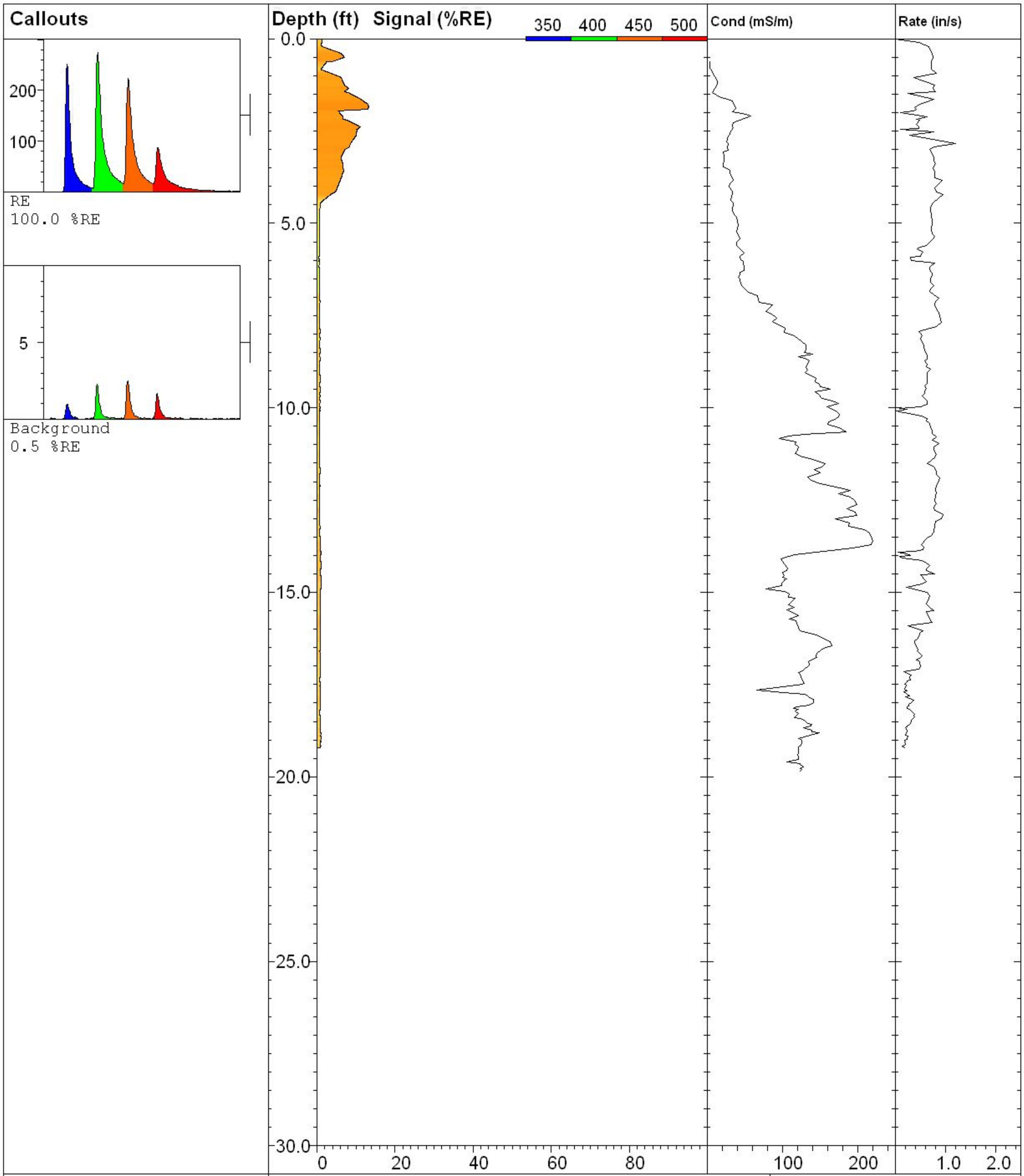
UVOST Log Summary

File	Date/Time	Latitude	Longitude	Final Depth *(ft)*	Max Signal *(%RE)*	Max. Signal Depth *(ft)*	Initial RE Area *(pVs)*	Background Area *(pVs)*	Fluorescence Top - Bottom *(ft)*
LIF-83-001	10/17/2011 8:27	NA	NA	18.2	10	4.2	11462	69	NA
LIF-83-002	10/17/2011 11:27	NA	NA	19.2	13	1.9	11661	62	NA
LIF-83-003	10/17/2011 12:17	NA	NA	23.5	174	9.7	11873	61	9.1 - 18.0
LIF-83-004	10/22/2011 7:57	NA	NA	22.6	6	4.8	11543	62	NA
LIF-83-005	10/22/2011 8:35	NA	NA	22.7	33	3.9	11379	62	5.0 - 6.7, see log
LIF-83-006	10/22/2011 9:14	NA	NA	23.8	418	16.8	11222	72	5.0 - 19.6
LIF-83-007	10/27/2011 15:40	NA	NA	30.0	3	0.2	11137	28	NA
LIF-83-008	10/27/2011 16:27	NA	NA	30.1	2	25.2	11610	20	NA
LIF-83-009	10/27/2011 17:04	NA	NA	30.0	157	8.5	11349	28	6.6 - 11.8, (16.5)
LIF-83-010	10/28/2011 7:22	NA	NA	5.8	36	4.5	11720	22	5.0 - 5.8
LIF-83-010A	10/29/2011 15:19	NA	NA	30.0	98	2.6	11973	48	5.0 - 9.2
LIF-83-011	10/28/2011 7:49	NA	NA	30.0	32	14.3	11684	18	11.7 - 16.9
LIF-83-012	10/28/2011 8:58	NA	NA	28.7	186	12.3	11731	58	5.0 - 16.9
LIF-83-013	10/28/2011 12:49	NA	NA	27.3	189	13.7	11341	49	5.0 - 15.6
LIF-83-014	10/28/2011 13:32	NA	NA	27.4	5	9.1	11778	59	7.7 - 9.7
LIF-83-015	10/28/2011 14:09	NA	NA	25.7	400	10.5	11172	56	5.0-14.8, 23.2-24.0
LIF-83-016	10/28/2011 15:39	NA	NA	27.1	226	6.8	11511	47	5.0 - 13.2
LIF-83-017	10/29/2011 7:42	NA	NA	28.3	5	5.4	11631	53	5.3 - 7.7
LIF-83-018	10/29/2011 8:19	NA	NA	30.0	194	11.3	11484	42	7.7-13.8, 16.9-19.1
LIF-83-019	10/29/2011 14:18	NA	NA	33.8	114	6.6	11415	47	5.0 - 11.6

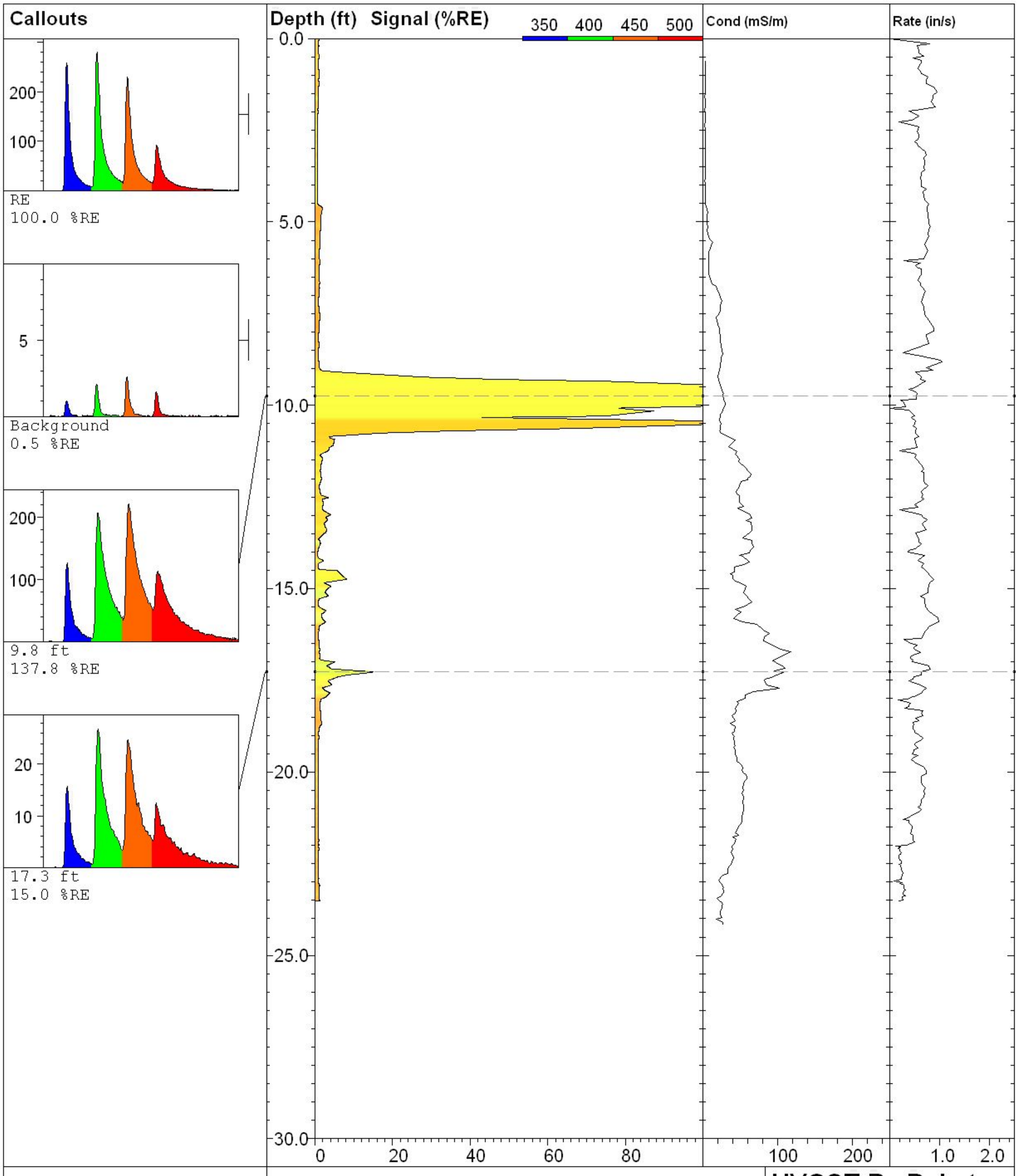
UVOST LOGS
@ 100% RE



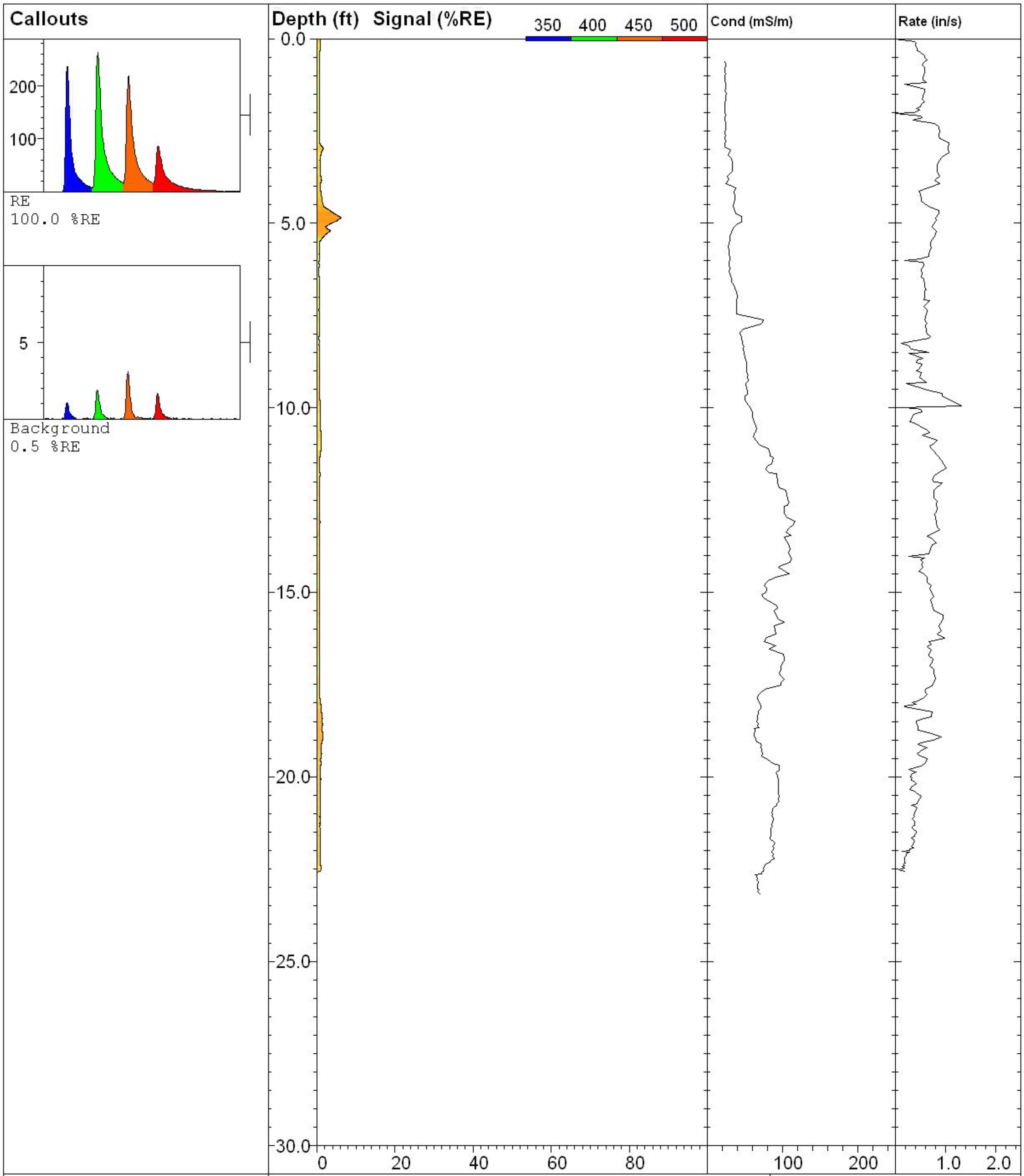
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-001**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **18.17 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **10.1 % @ 4.20 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-17 08:27 CDT**



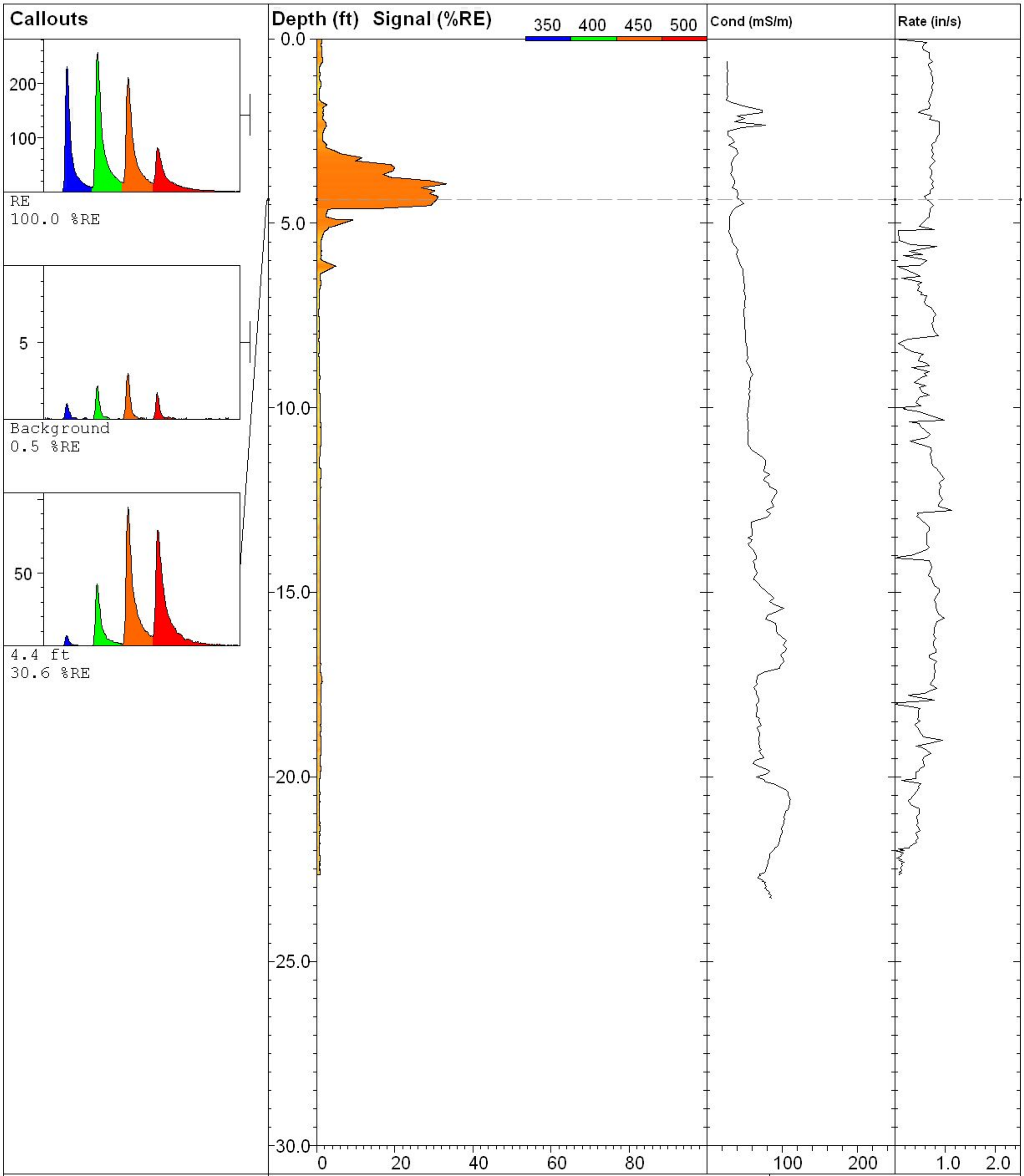
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-002**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **19.21 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **13.2 % @ 1.86 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-17 11:27 CDT**



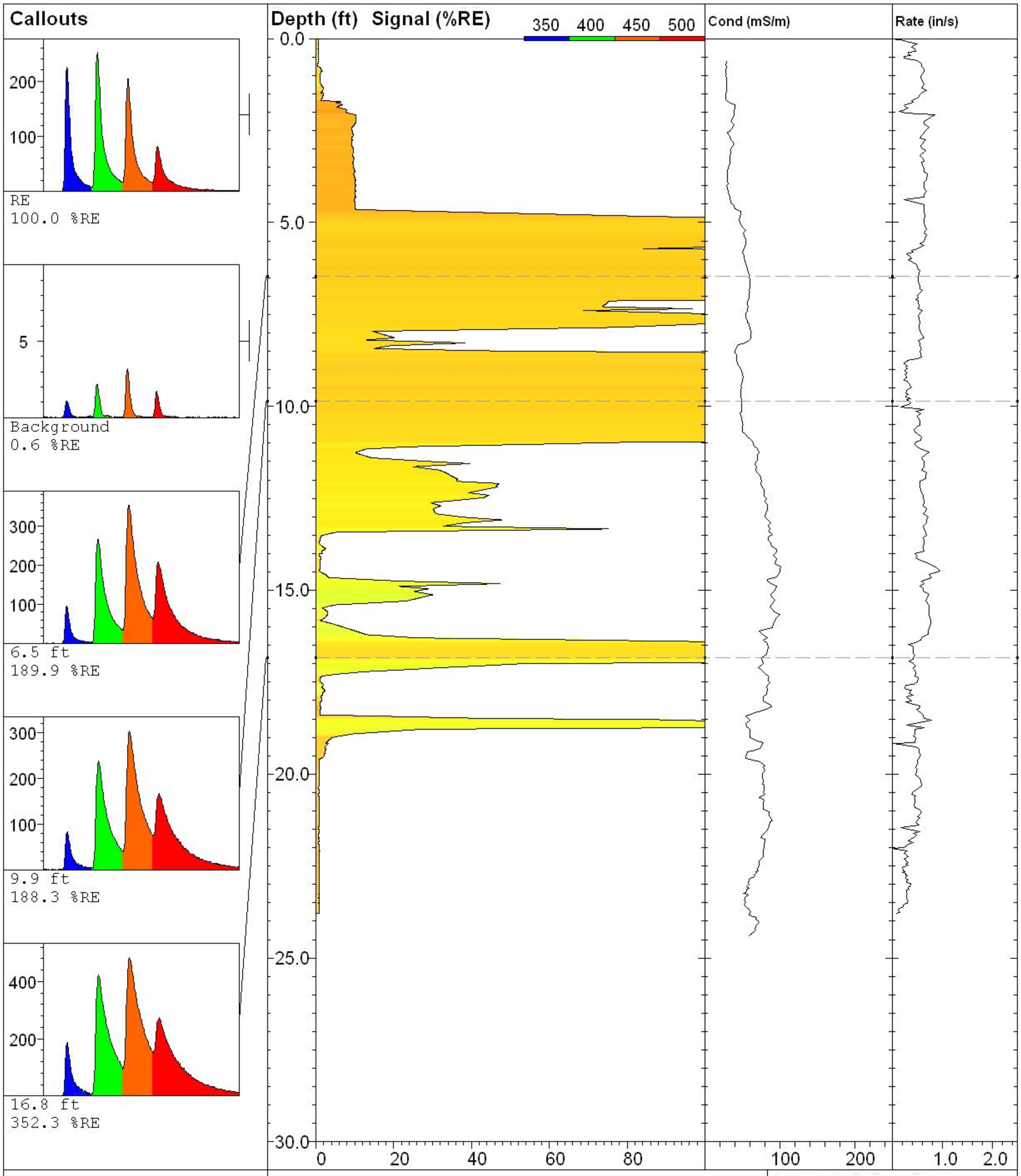
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-003**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **23.52 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **174.5 % @ 9.68 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-17 12:17 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-004**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **22.57 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **6.1 % @ 4.85 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-22 07:57 CDT**

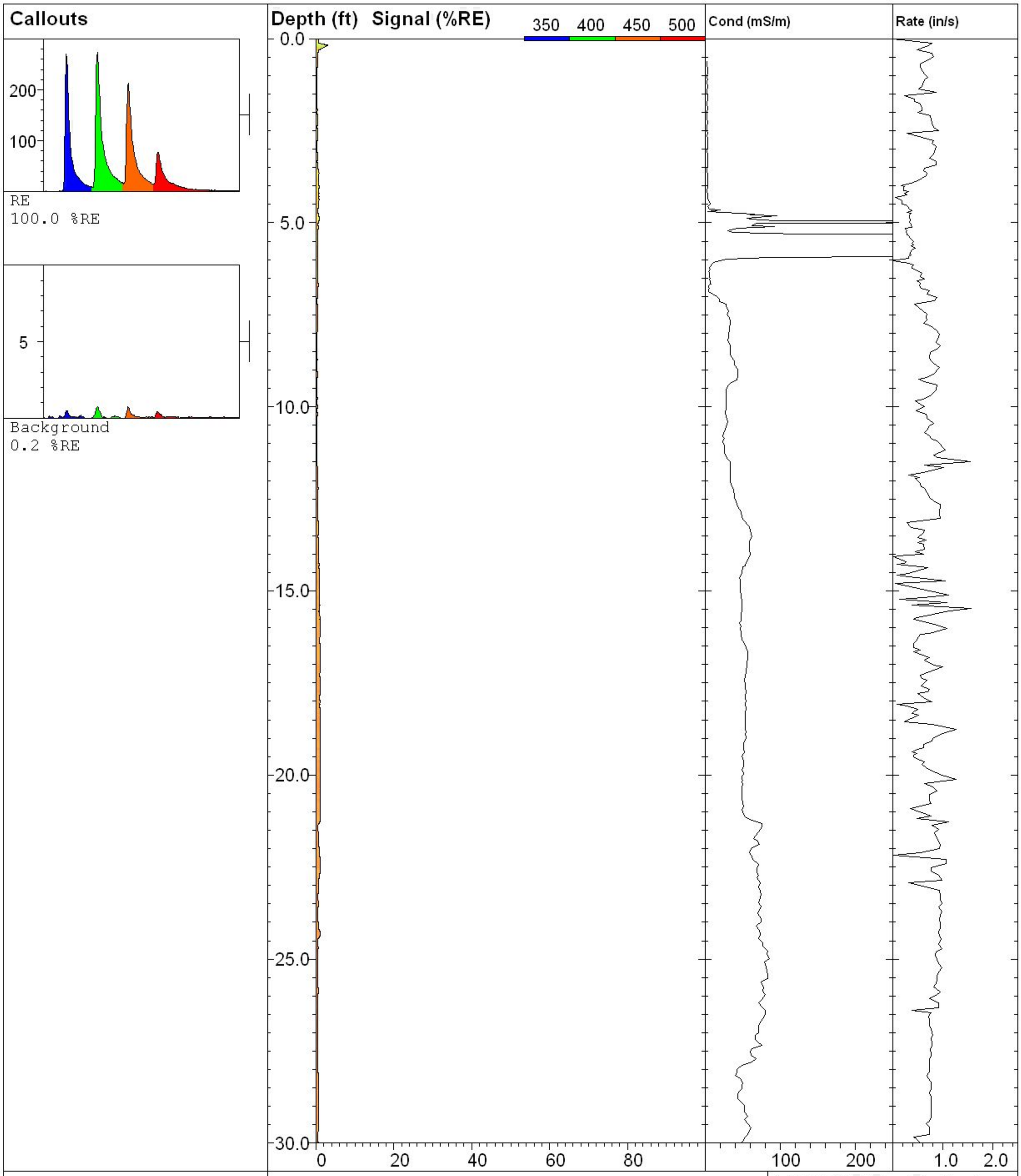


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-005**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **22.66 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **33.2 % @ 3.94 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-22 08:35 CDT**

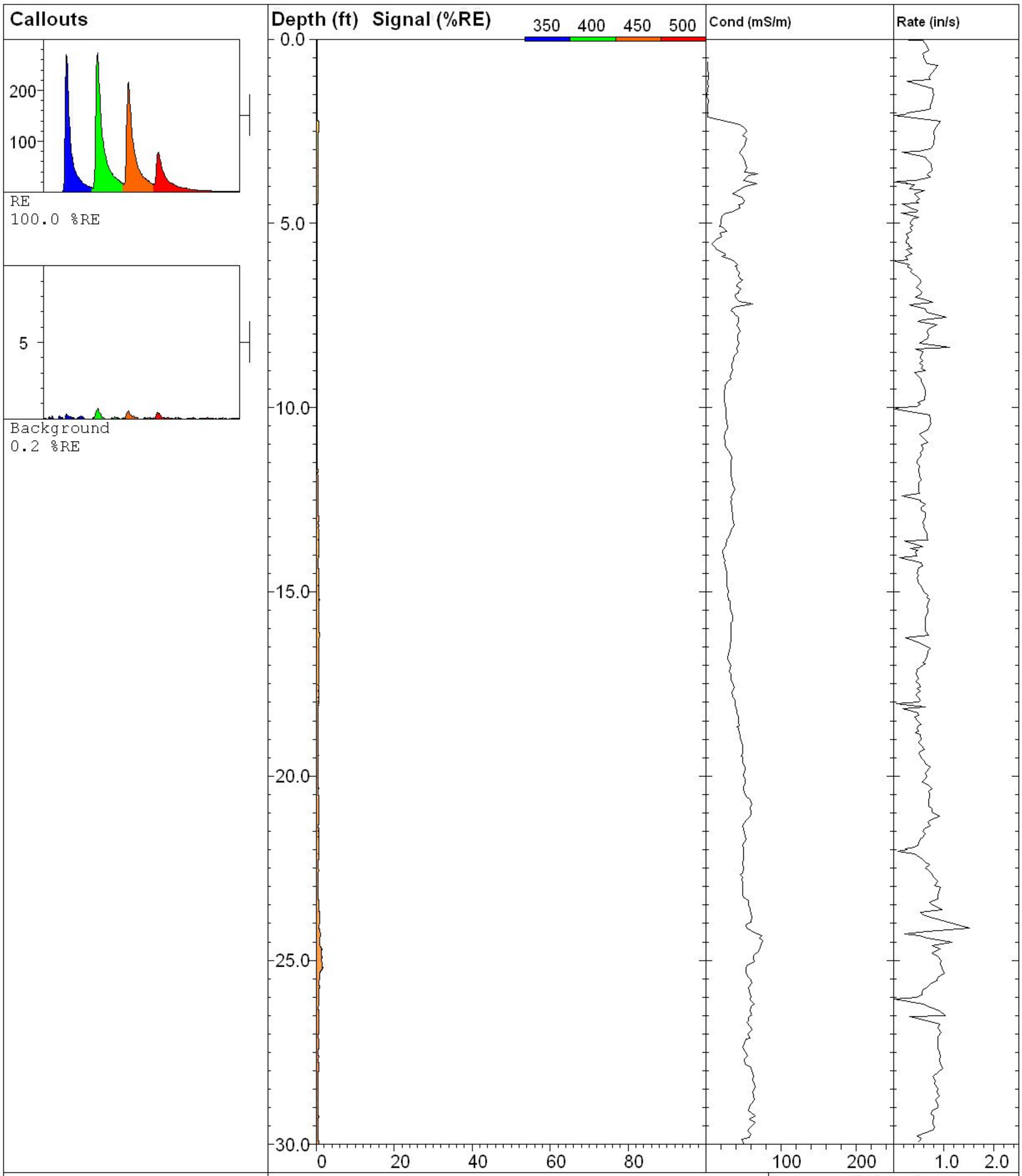


LIF-83-006		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **23.78 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **417.6 % @ 16.78 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-22 09:14 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-007**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **3.0 % @ 0.18 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-27 15:40 CDT**

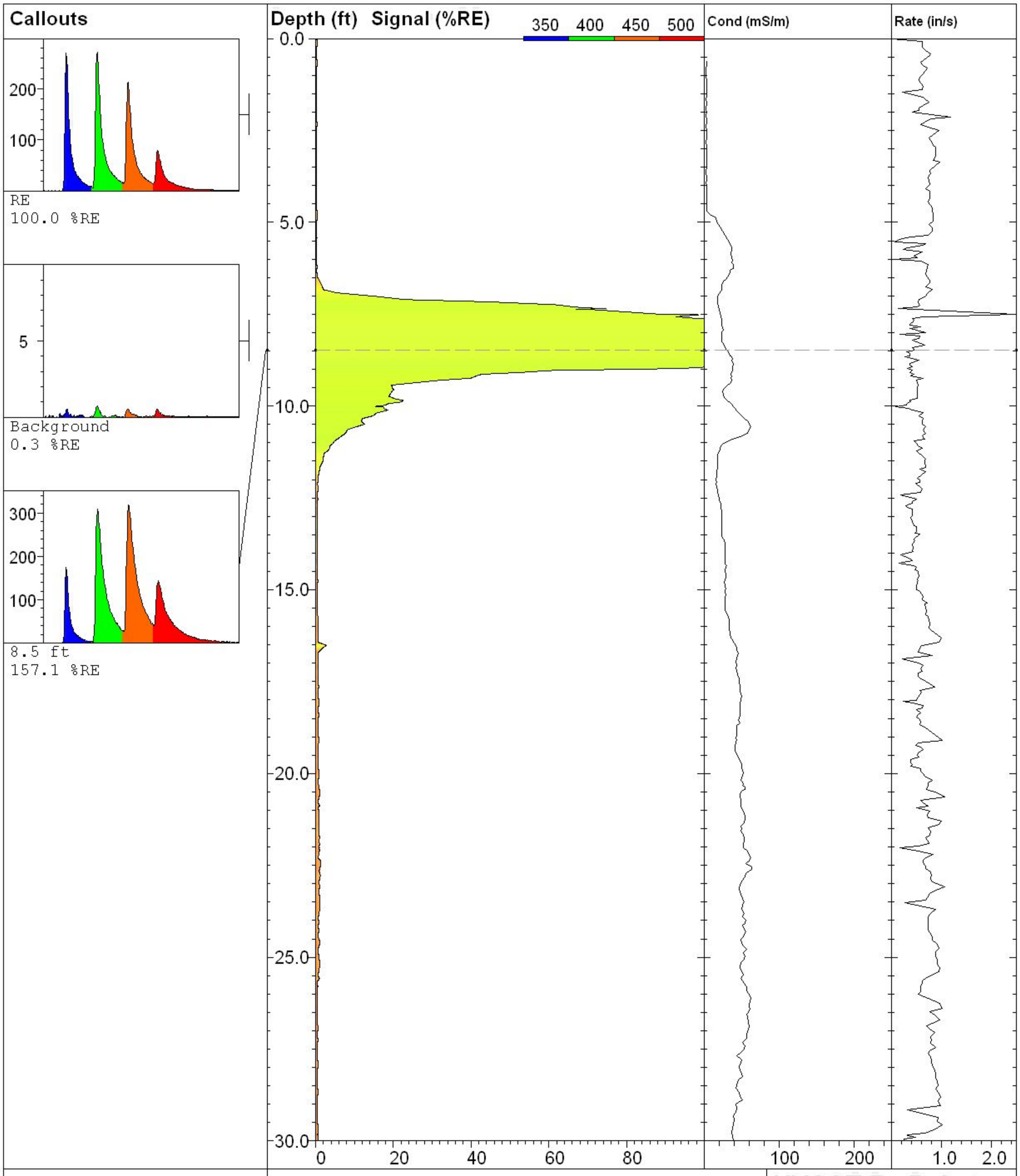


LIF-83-008

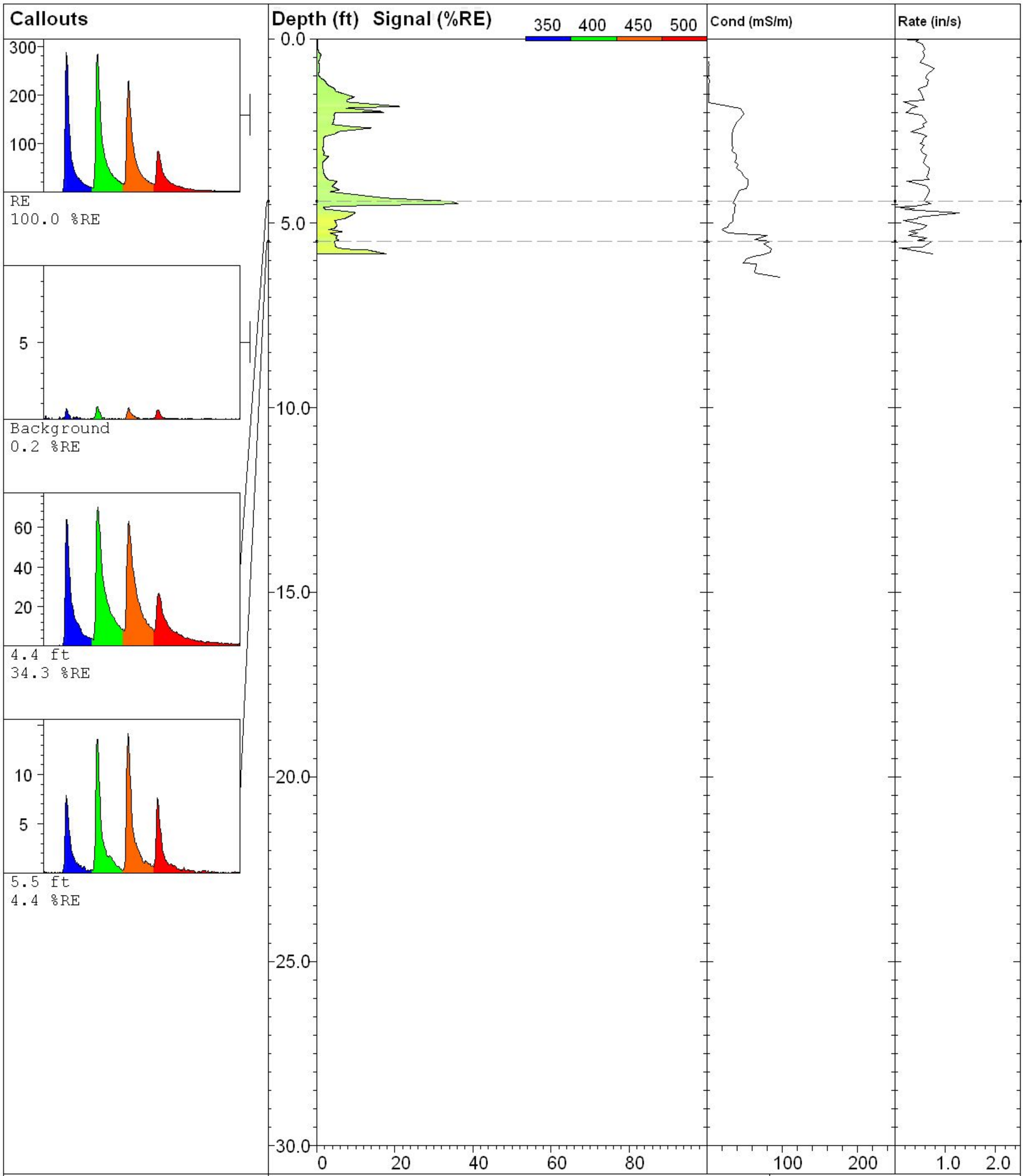
UVOST By Dakota
www.DakotaTechnologies.com

Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.08 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.6 % @ 25.21 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-27 16:27 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

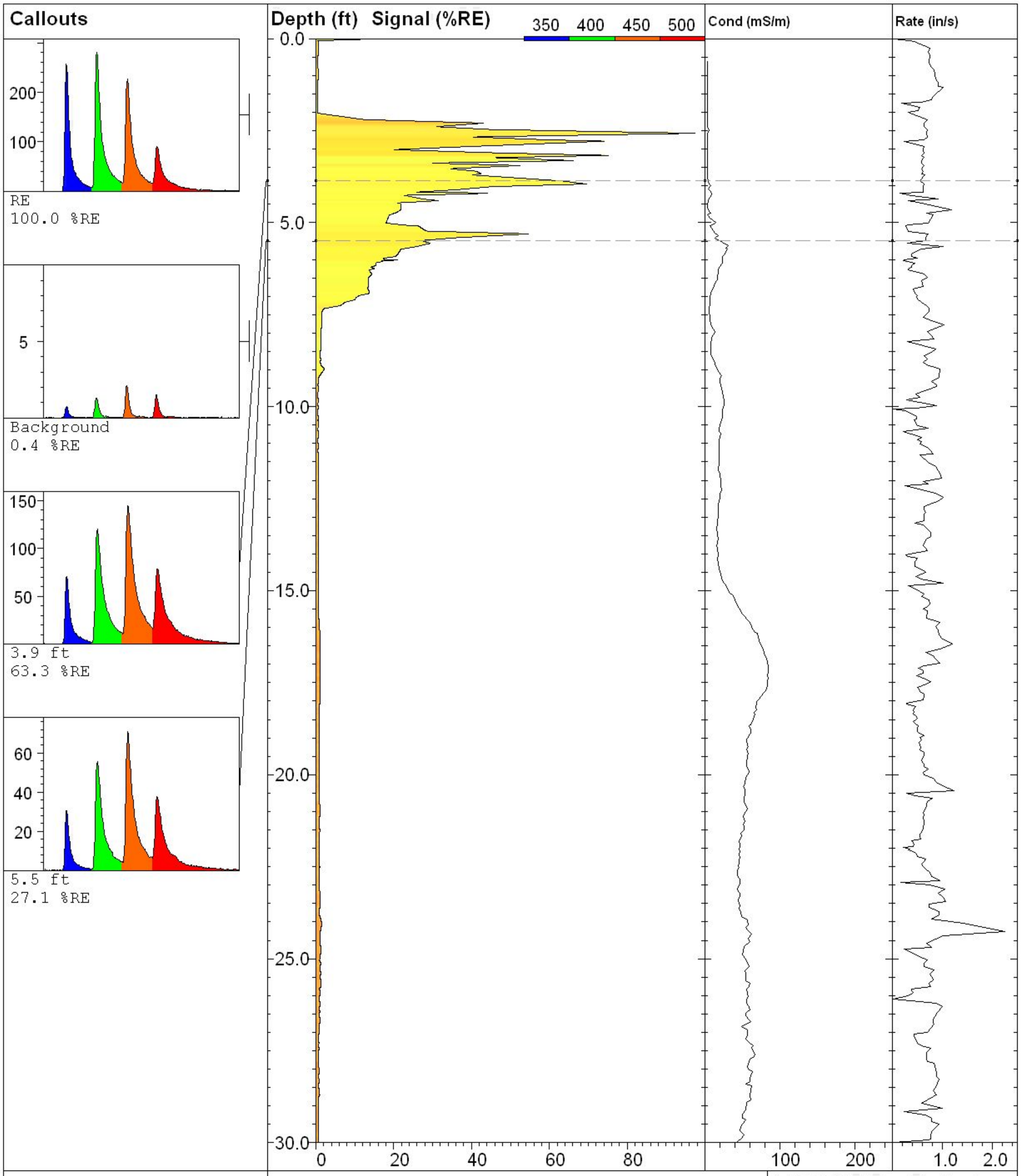


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-009**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **157.1 % @ 8.47 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-27 17:04 CDT**

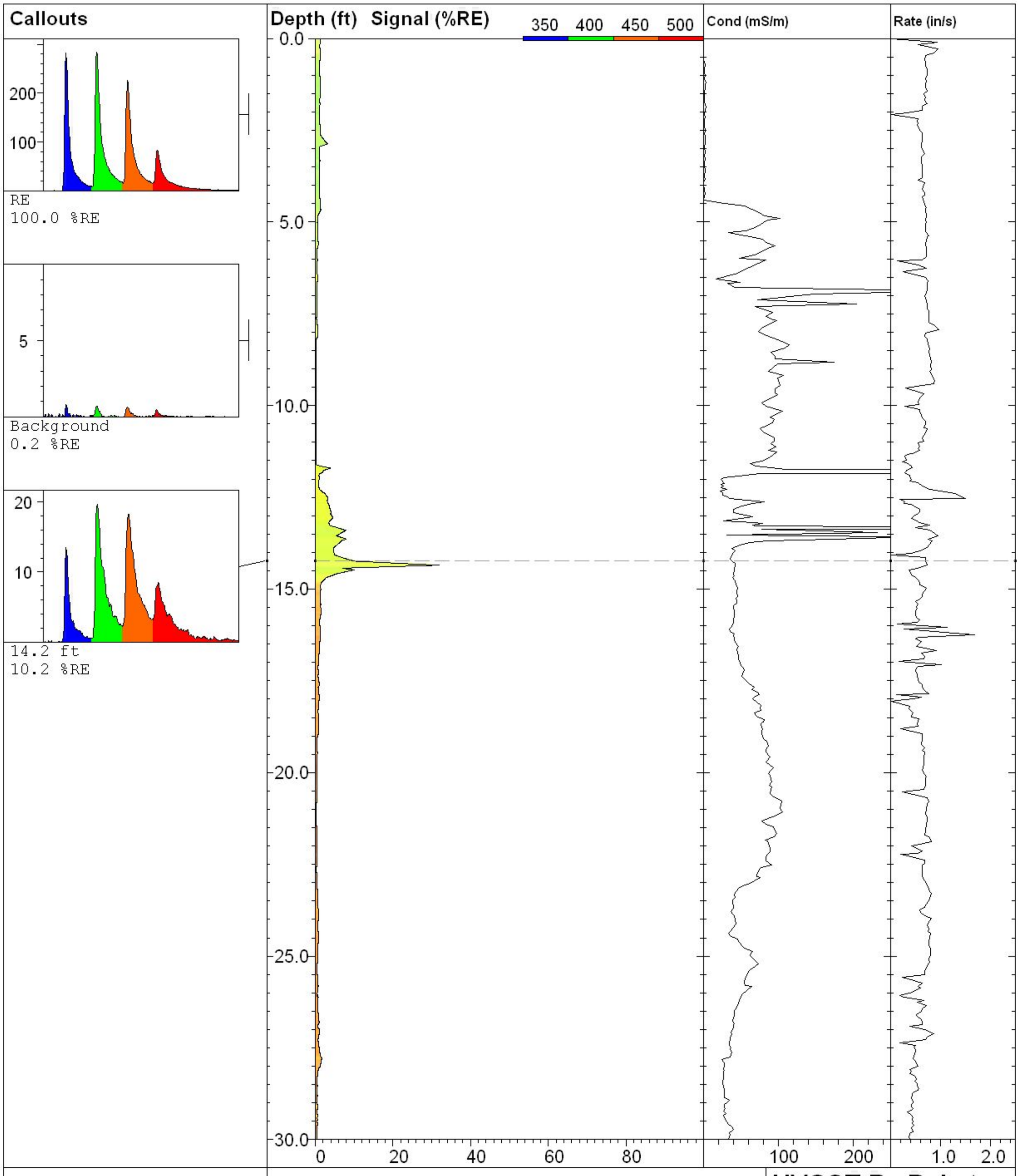


LIF-83-010		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **5.83 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **36.3 % @ 4.47 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-28 07:22 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-010A**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.02 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **98.1 % @ 2.57 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-29 15:19 CDT**

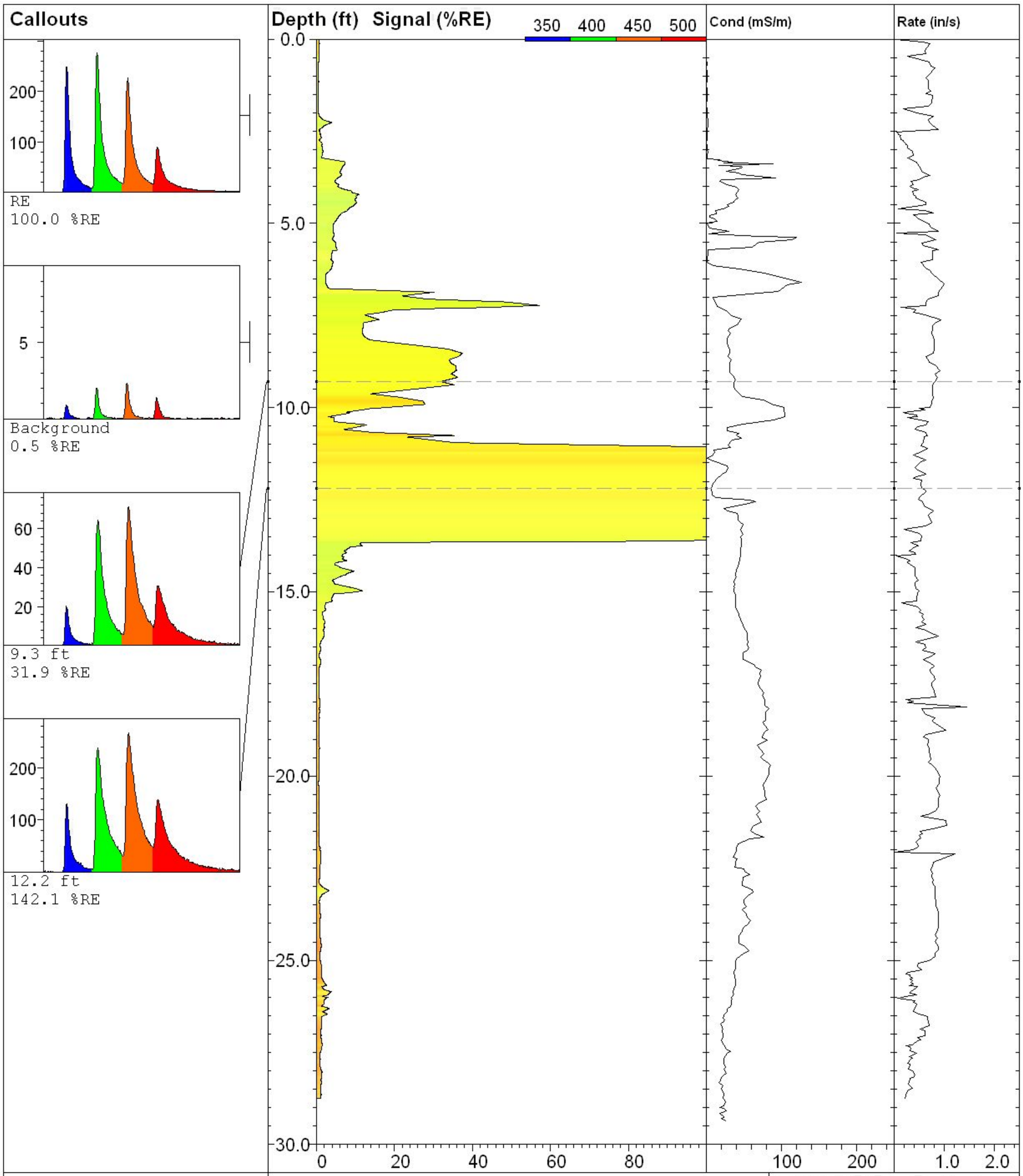


LIF-83-011

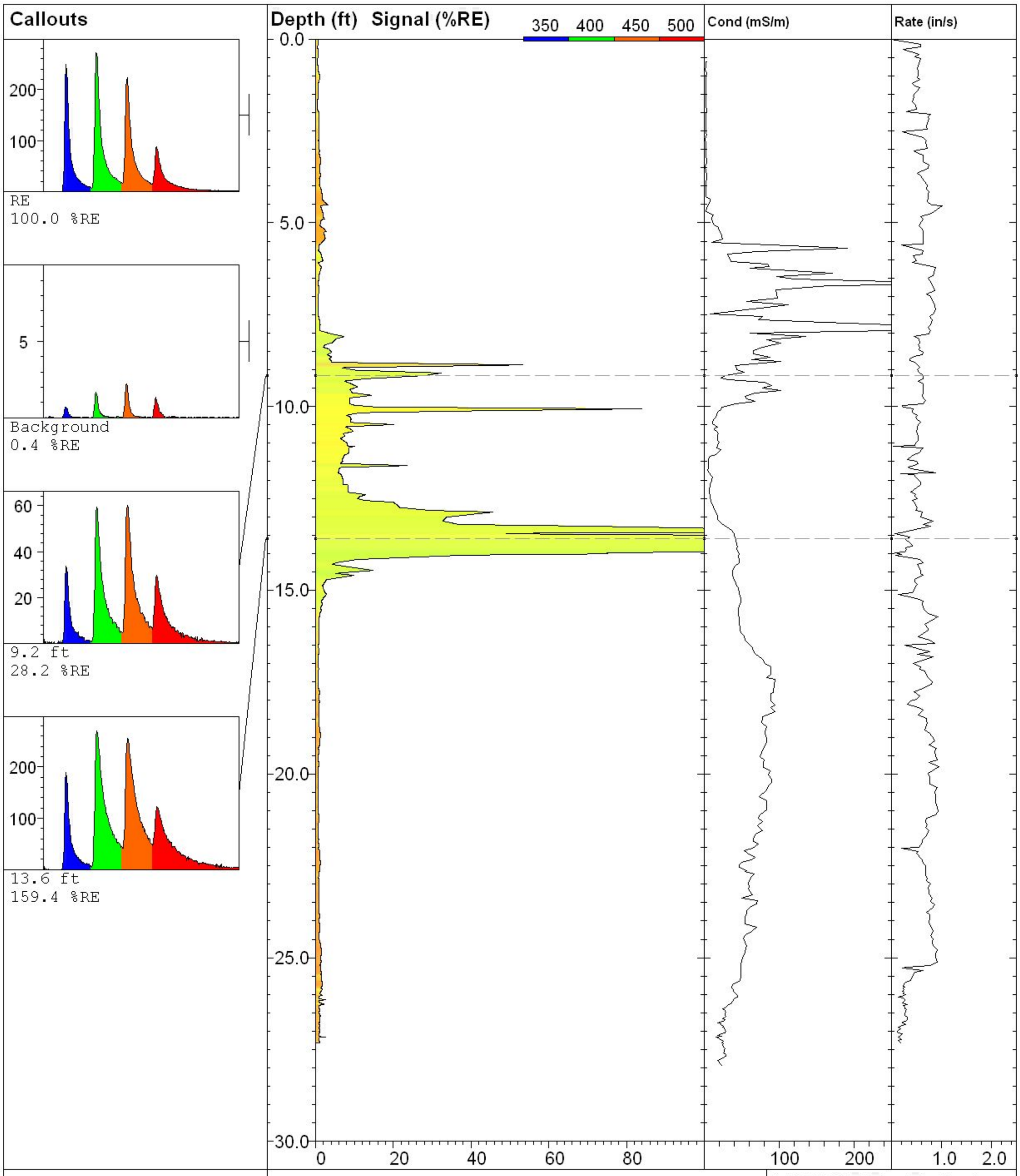
UVOST By Dakota
www.DakotaTechnologies.com

Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **31.9 % @ 14.35 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-28 07:49 CDT**

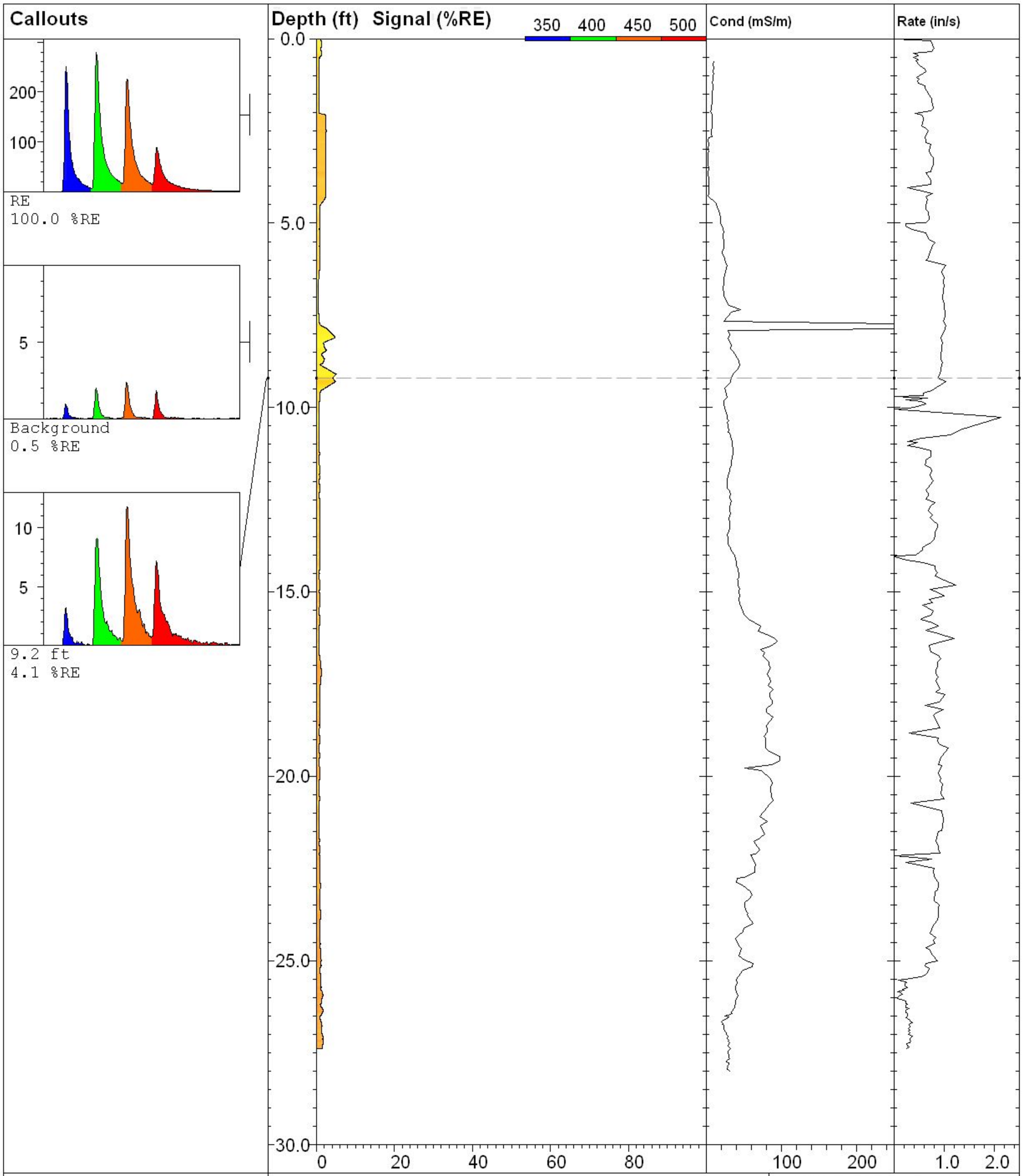
MATRIX ENVIRONMENTAL LLC
www.matrixenv.com



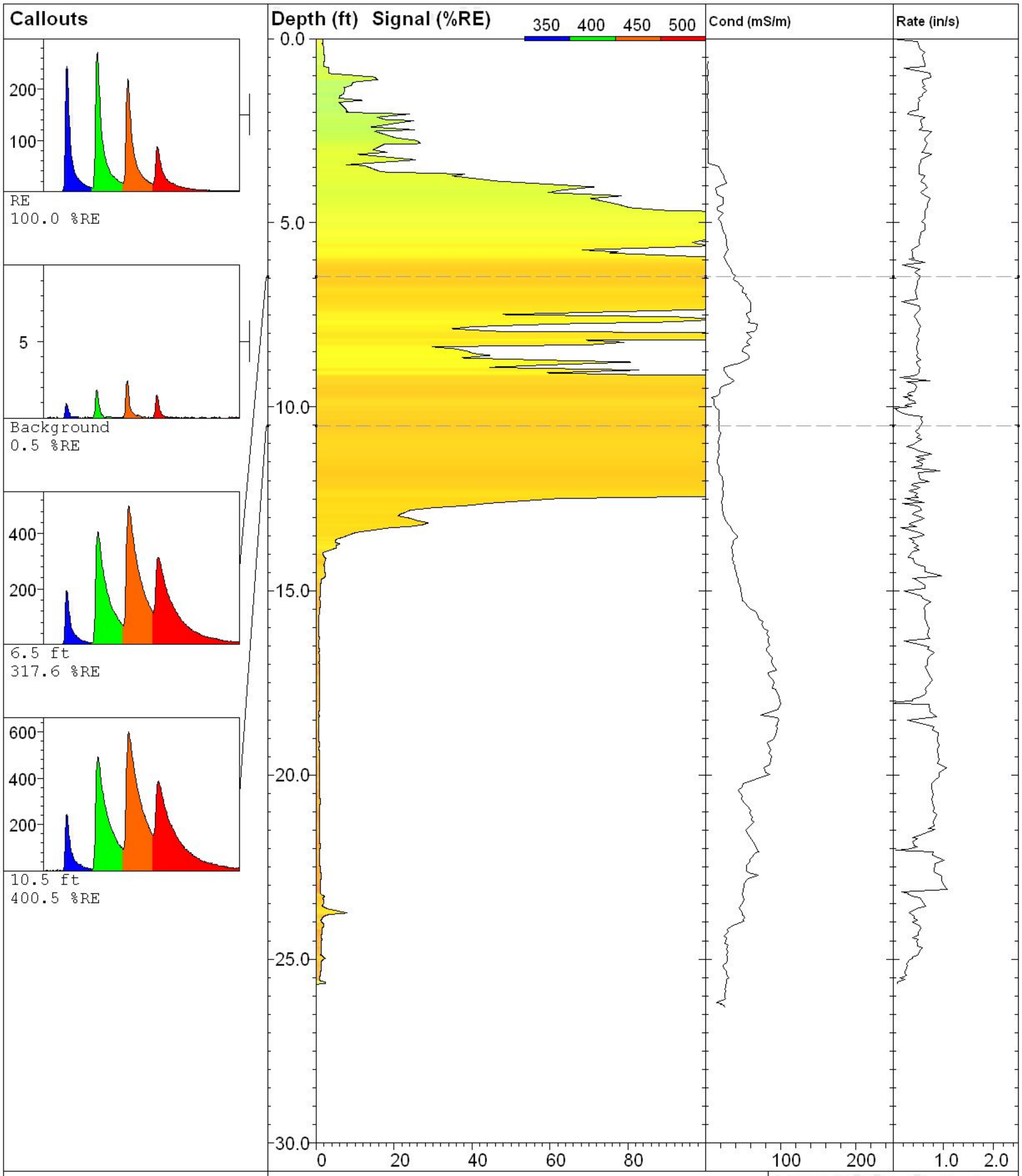
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-012**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **28.74 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **186.1 % @ 12.29 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-28 08:58 CDT**



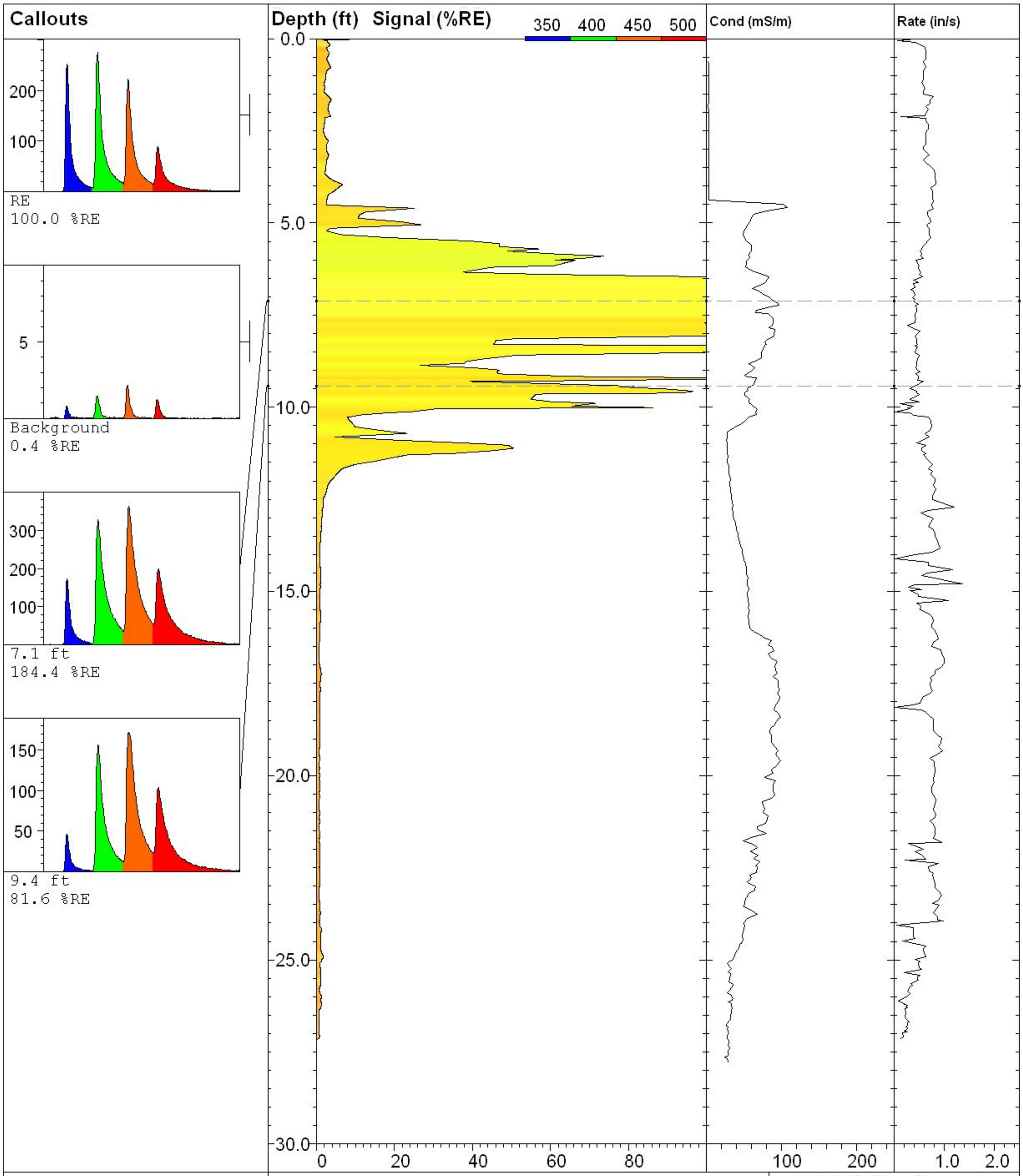
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-013**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **27.32 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **188.7 % @ 13.72 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-28 12:49 CDT**



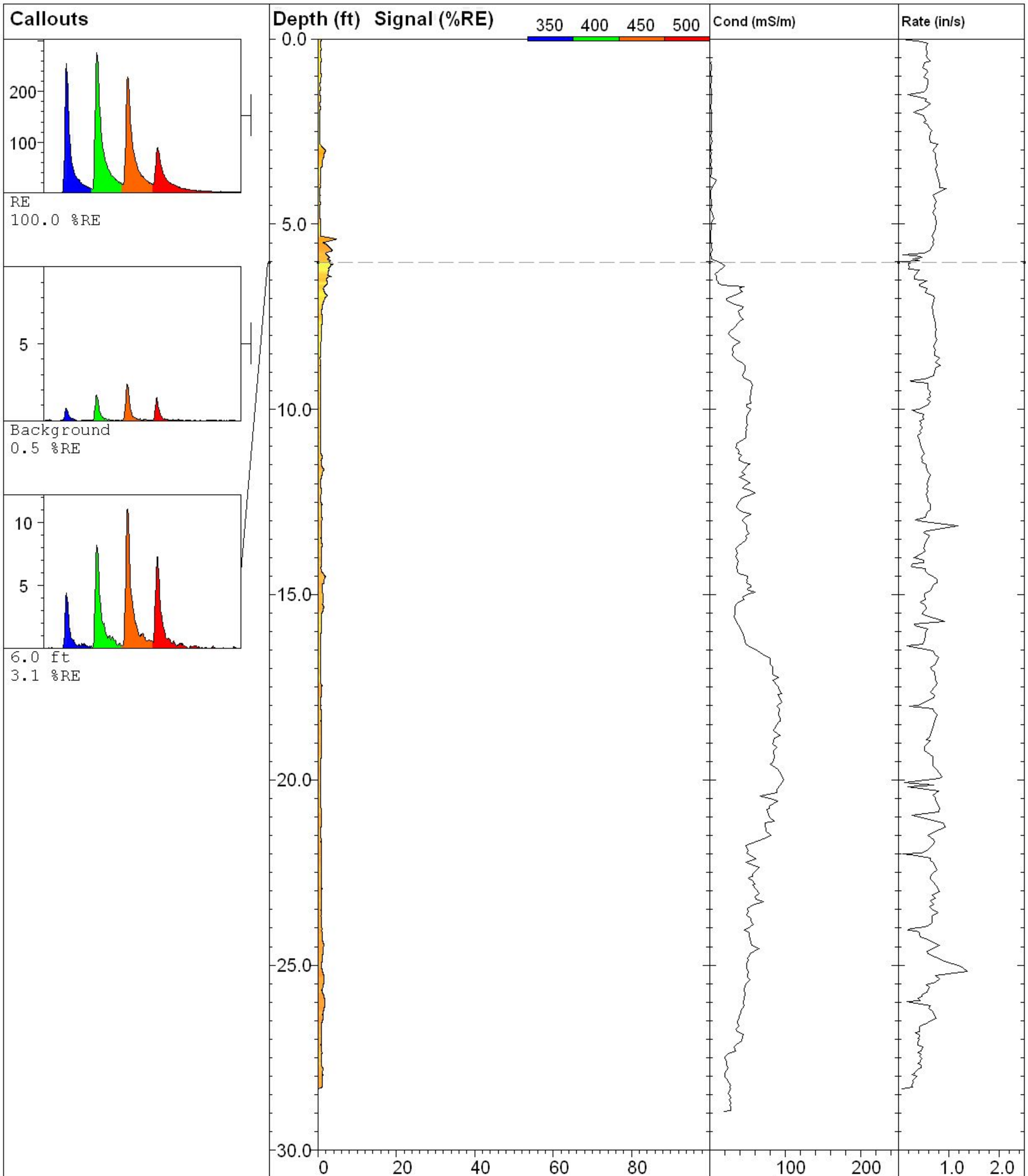
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-014**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **27.39 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **5.0 % @ 9.10 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-28 13:32 CDT**



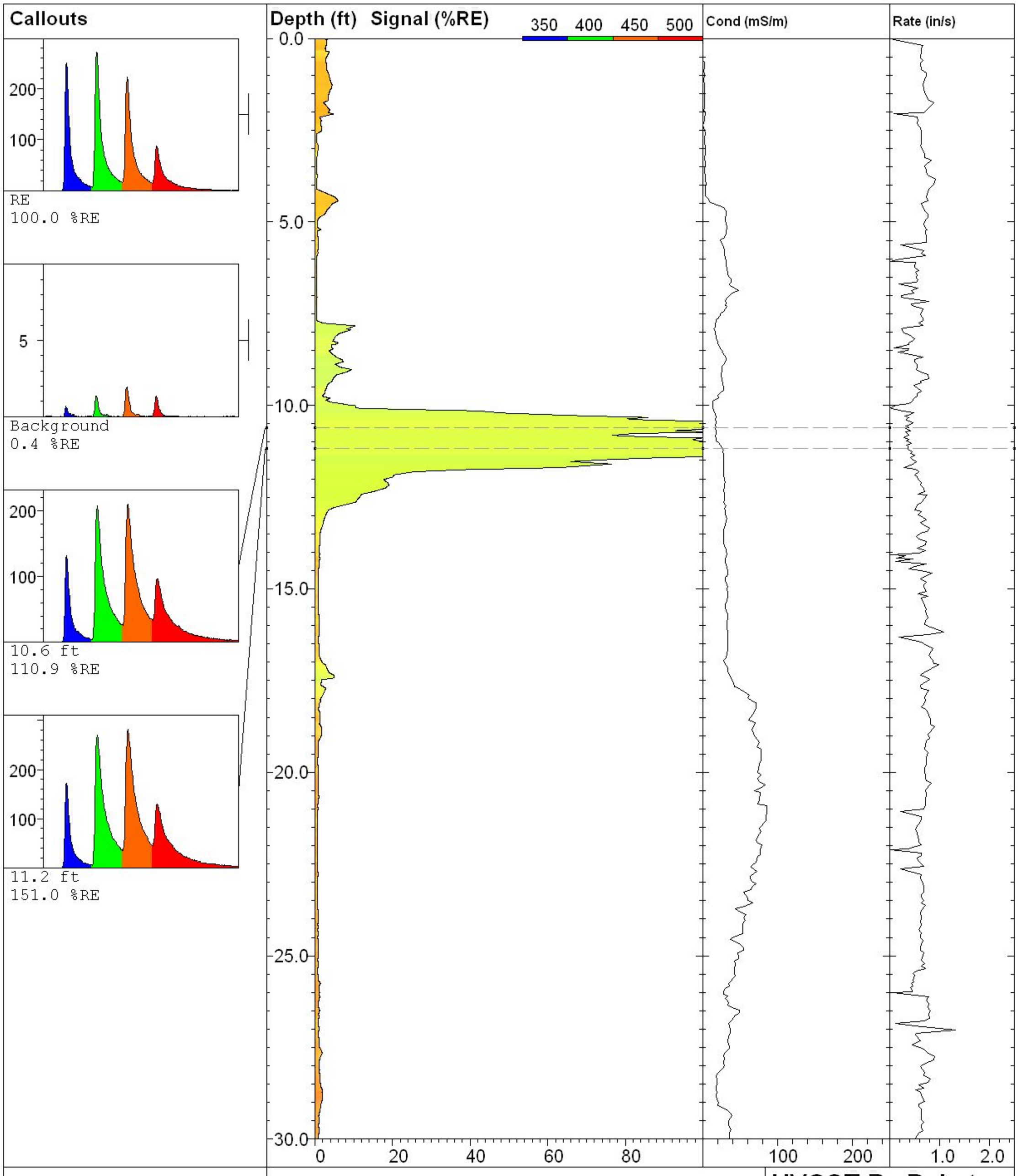
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-015**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **25.68 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **400.5 % @ 10.52 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-28 14:09 CDT**



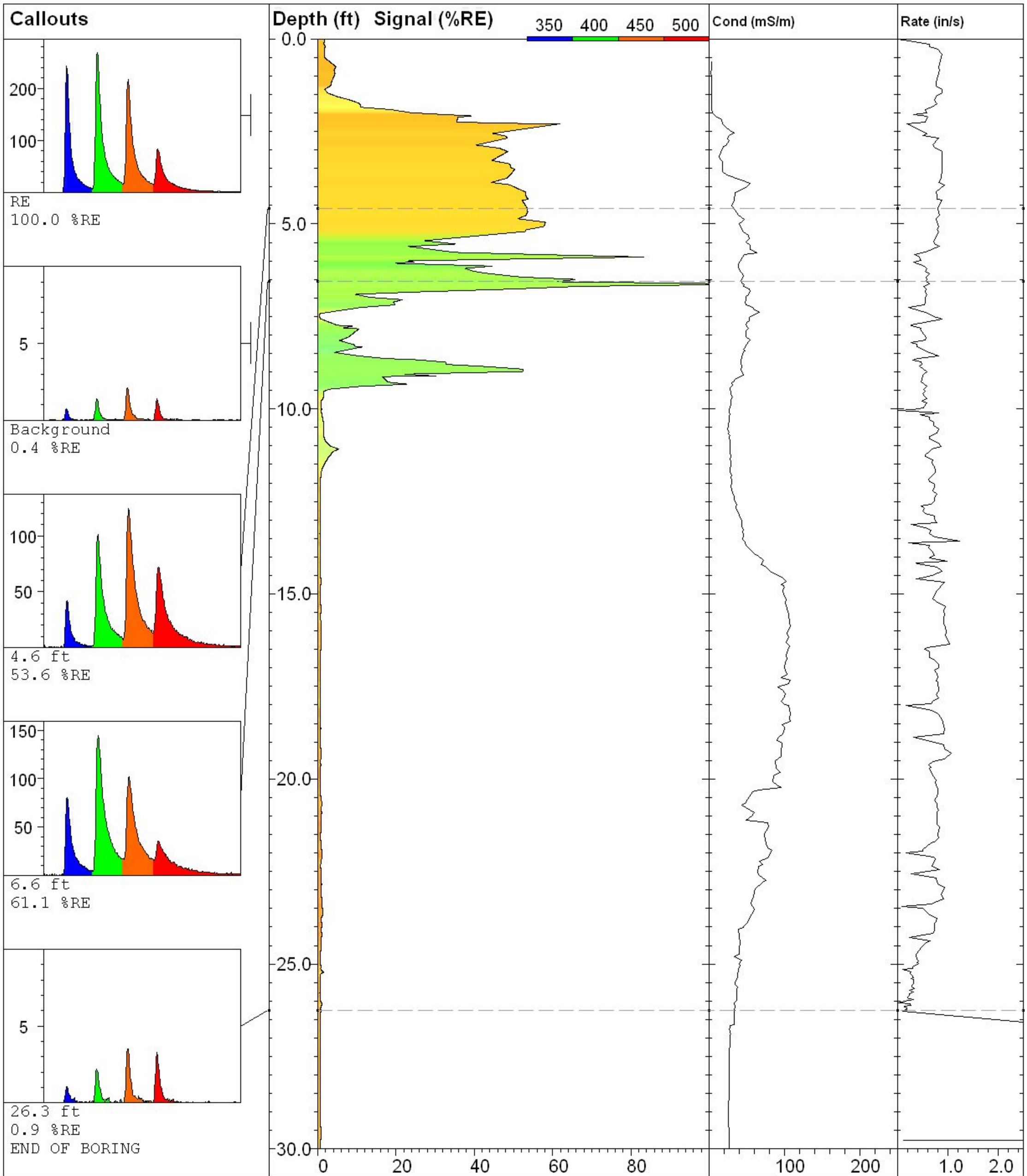
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-016**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **27.15 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **226.3 % @ 6.80 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-28 15:39 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-017**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **28.33 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **4.8 % @ 5.40 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-29 07:42 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-018**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.02 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **194.3 % @ 11.31 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-29 08:19 CDT**



LIF-83-019		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **33.78 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **114.3 % @ 6.63 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-29 14:18 CDT**

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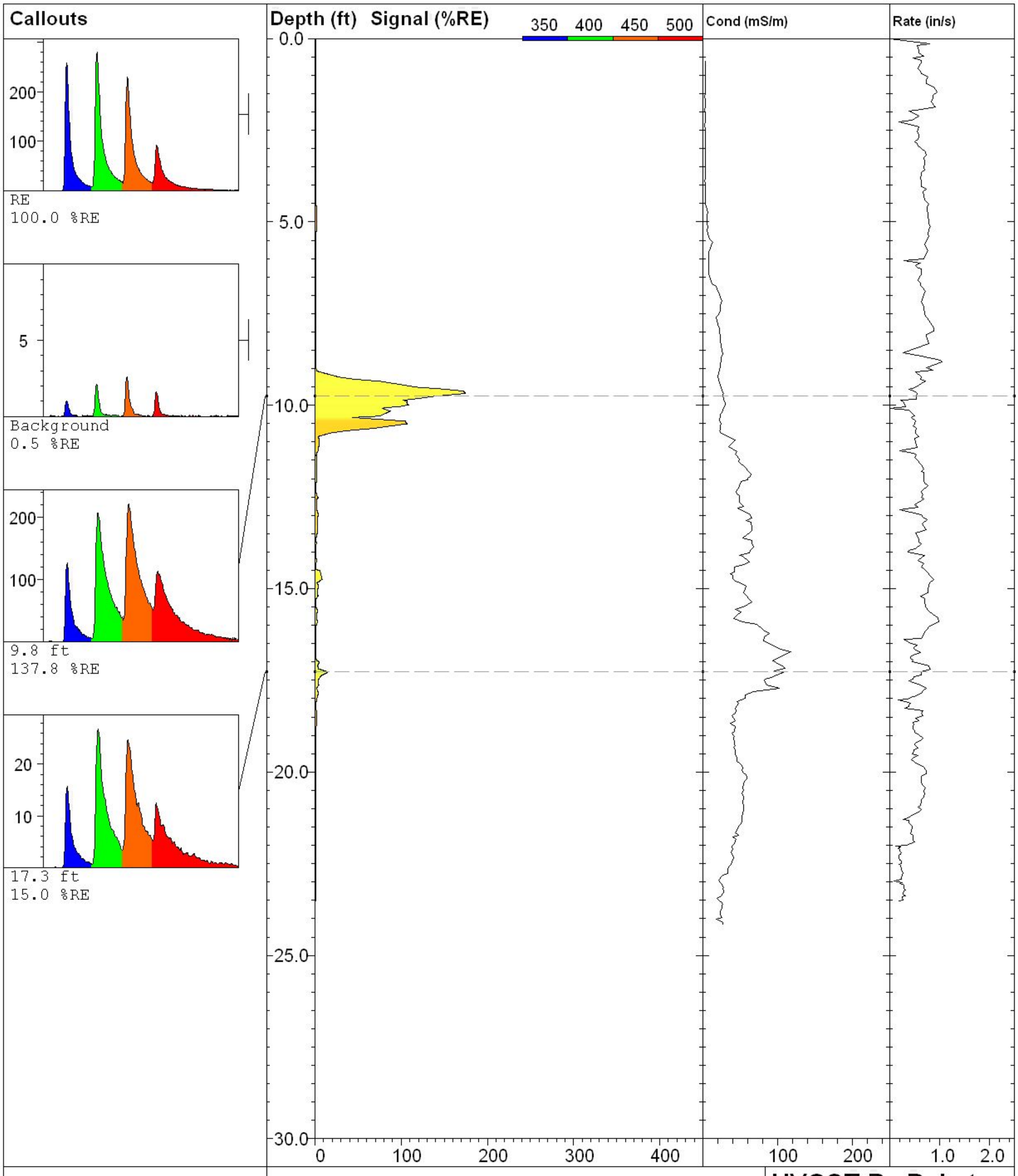
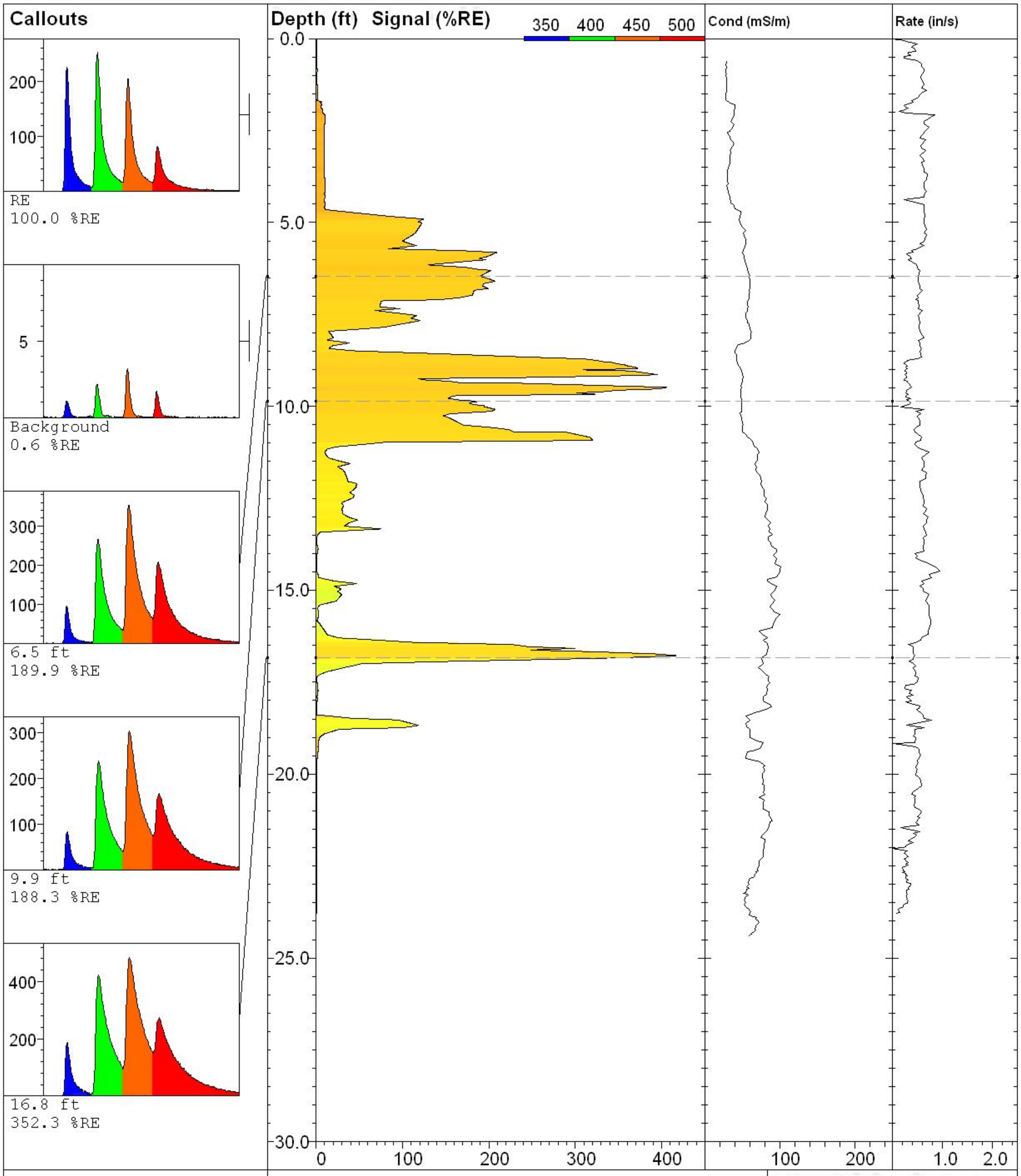
UVOST LOGS
@ 450% RE



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-003**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **23.52 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **174.5 % @ 9.68 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-17 12:17 CDT**

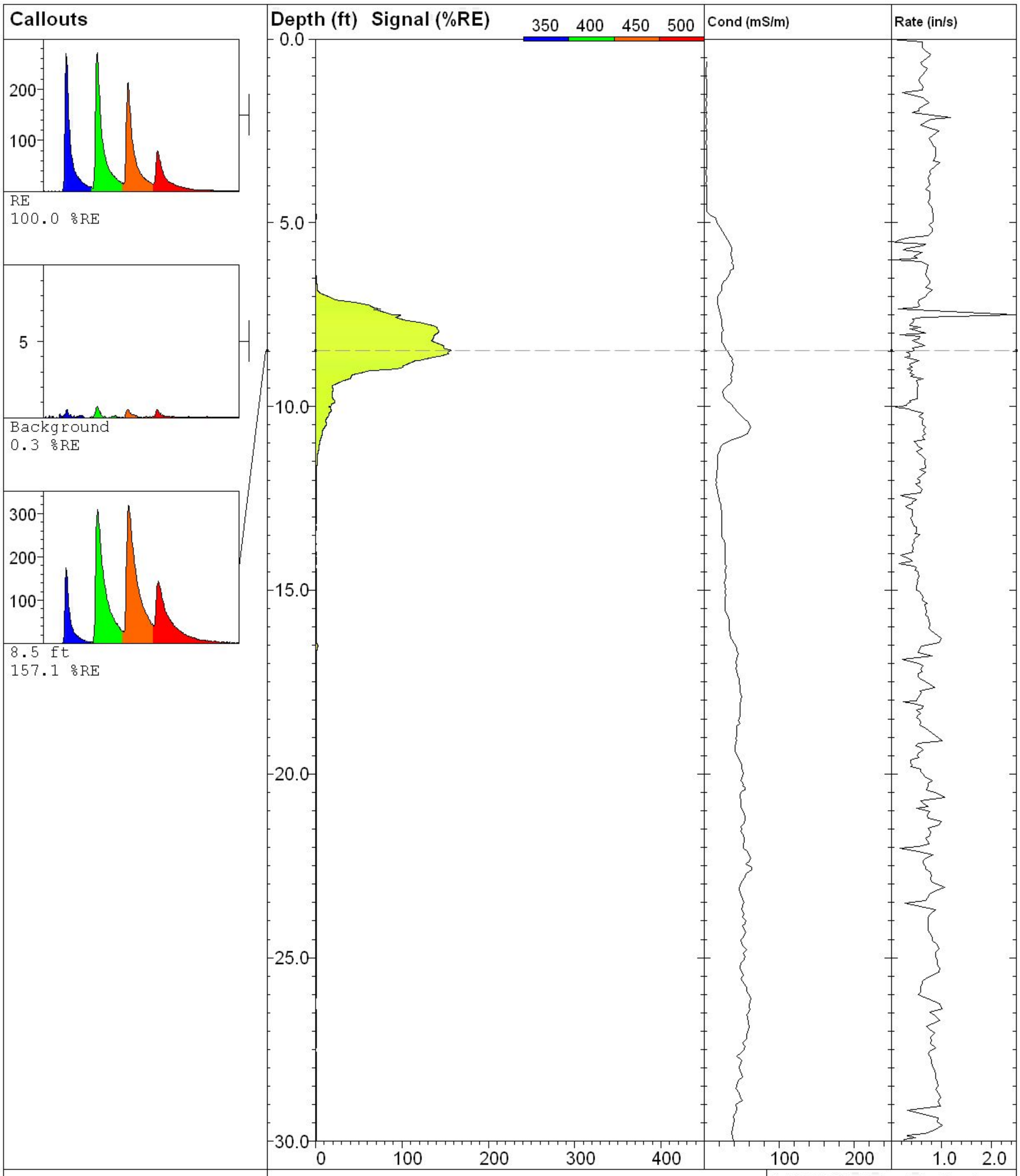


LIF-83-006

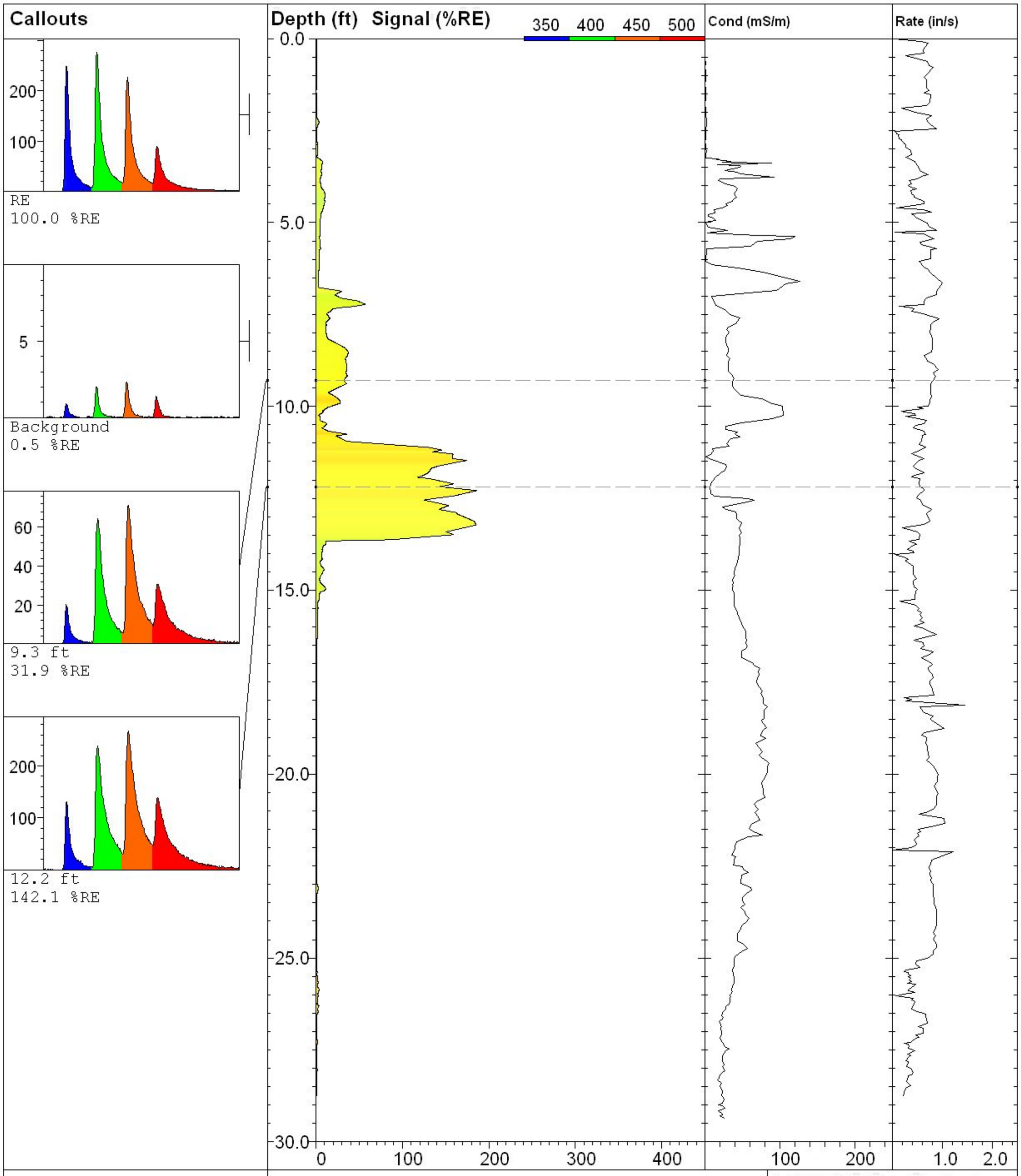
UVOST By Dakota
www.DakotaTechnologies.com

Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **23.78 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **417.6 % @ 16.78 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-22 09:14 CDT**

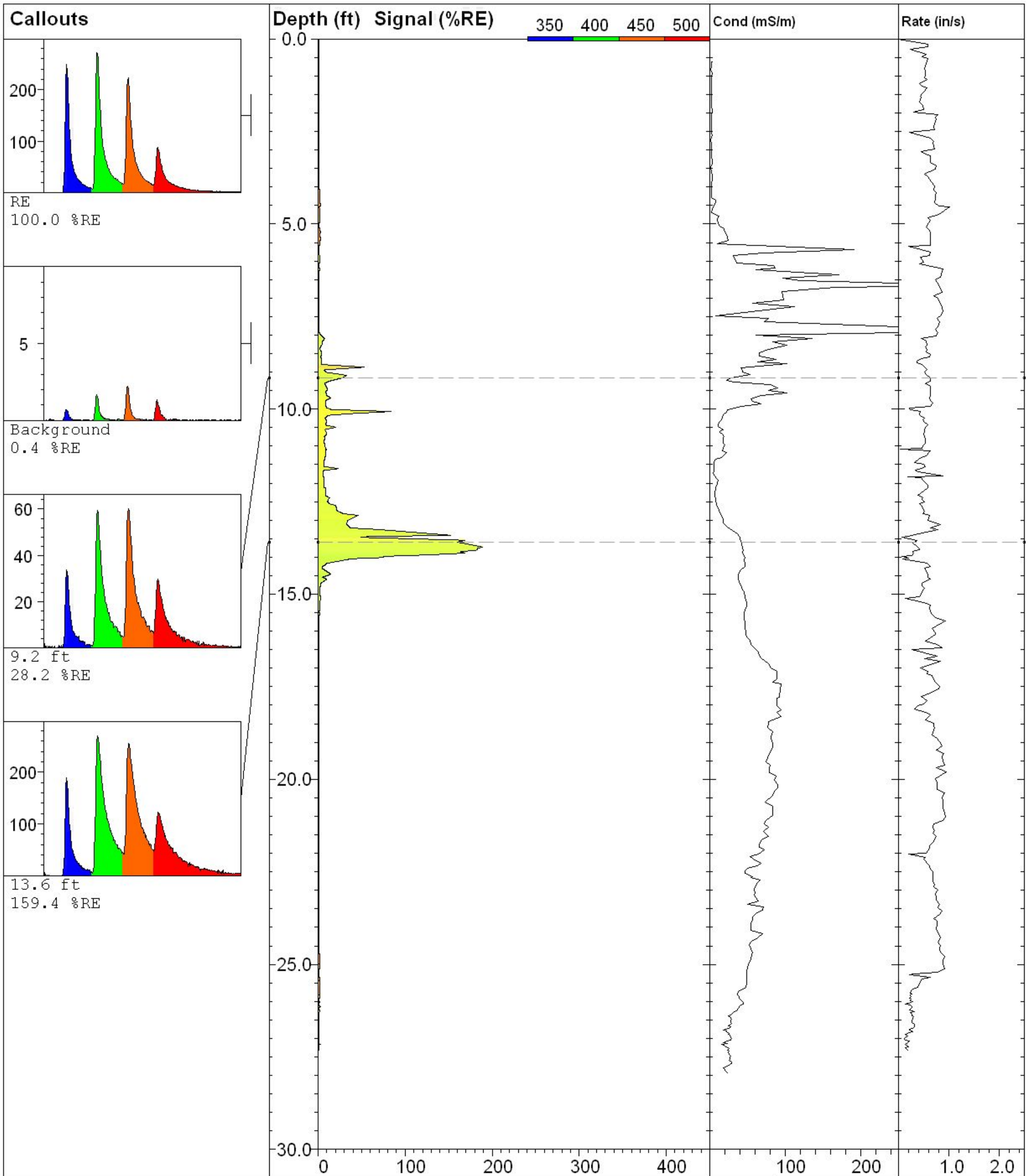
MATRIX ENVIRONMENTAL LLC
www.matrixenv.com



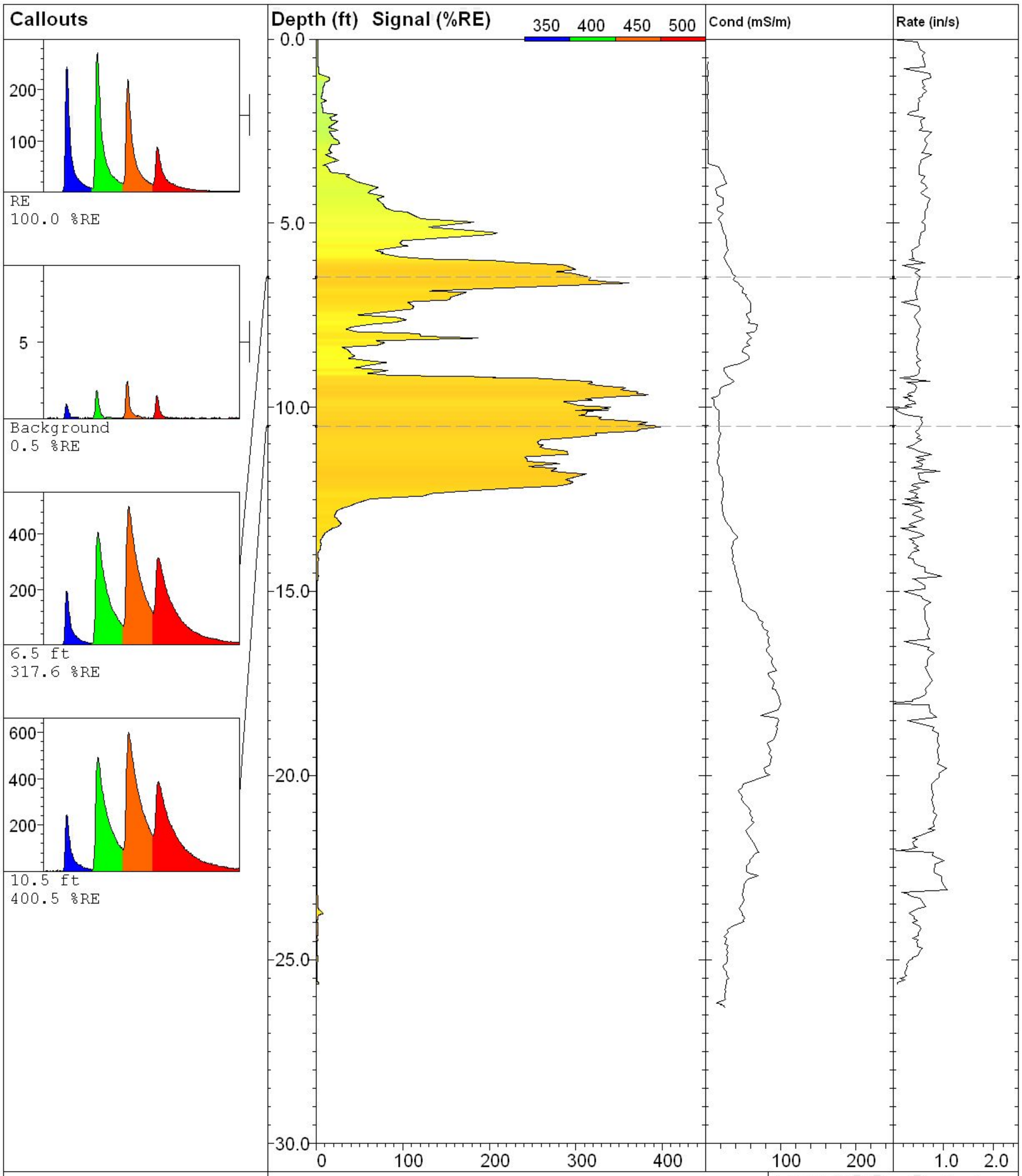
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-009**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **157.1 % @ 8.47 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-27 17:04 CDT**



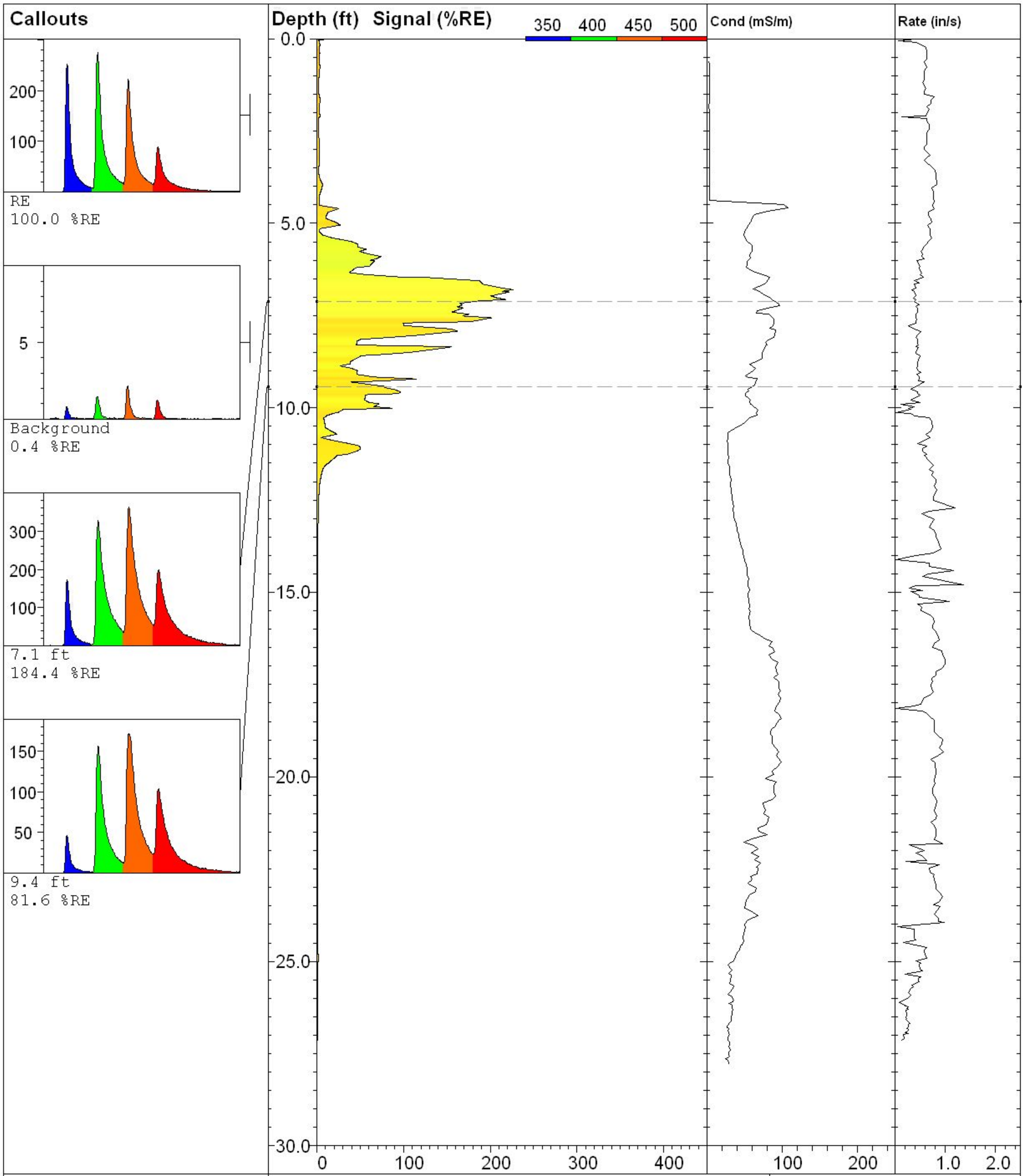
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-012**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **28.74 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **186.1 % @ 12.29 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-28 08:58 CDT**



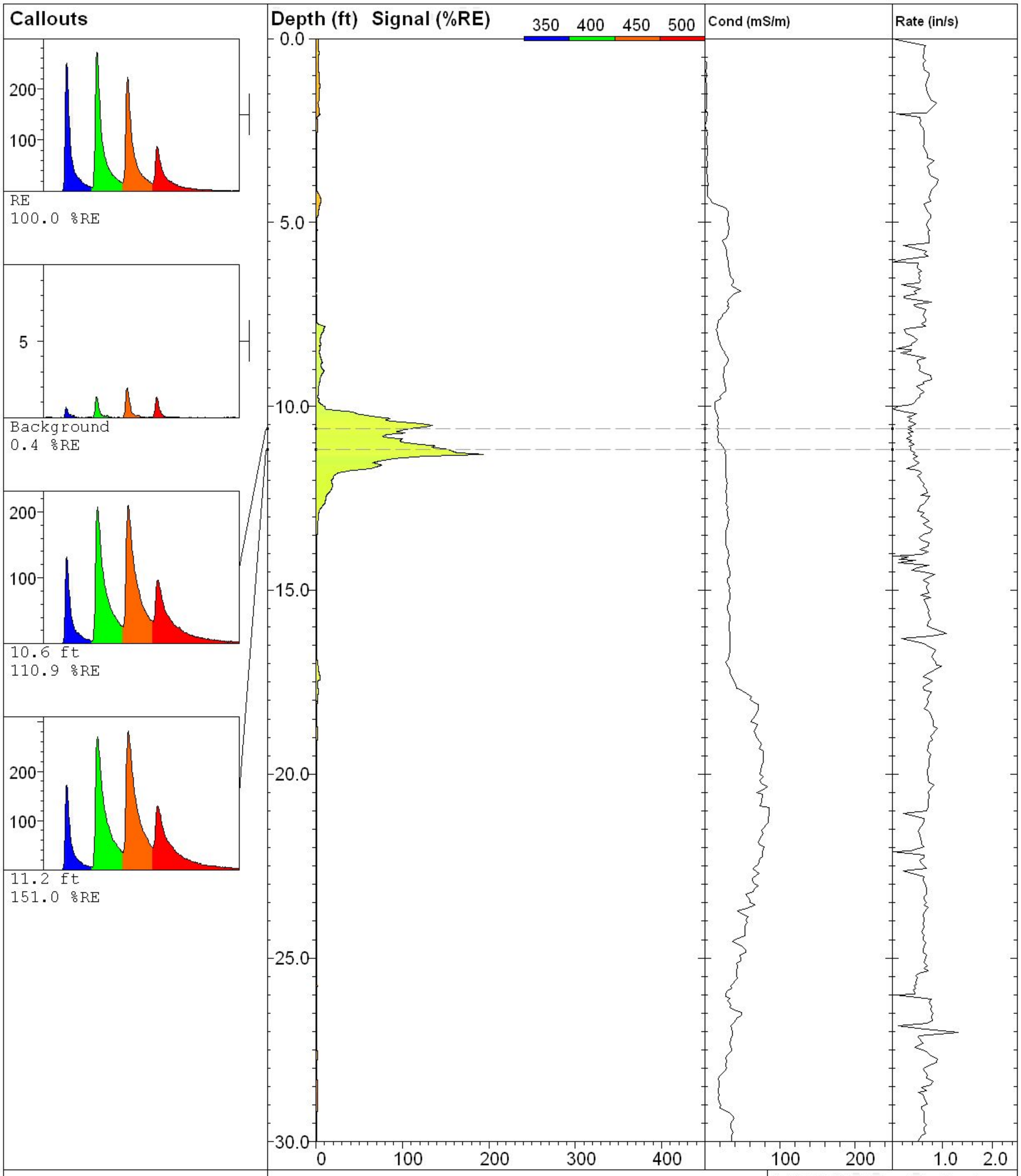
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-013**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **27.32 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **188.7 % @ 13.72 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-28 12:49 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-015**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **25.68 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **400.5 % @ 10.52 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-28 14:09 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-016**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **27.15 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **226.3 % @ 6.80 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-28 15:39 CDT**

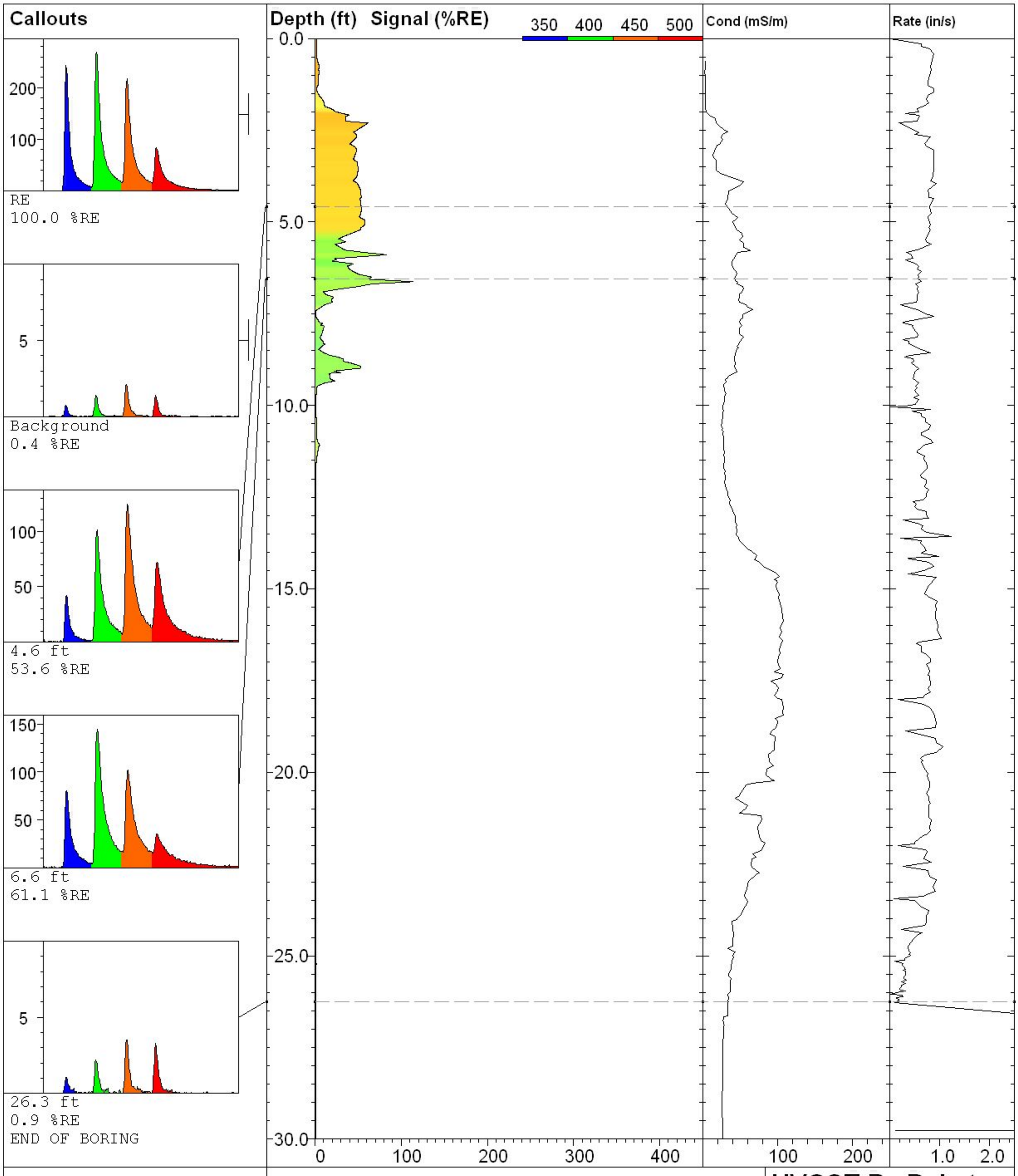


LIF-83-018

UVOST By Dakota
www.DakotaTechnologies.com

Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.02 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **194.3 % @ 11.31 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-29 08:19 CDT**

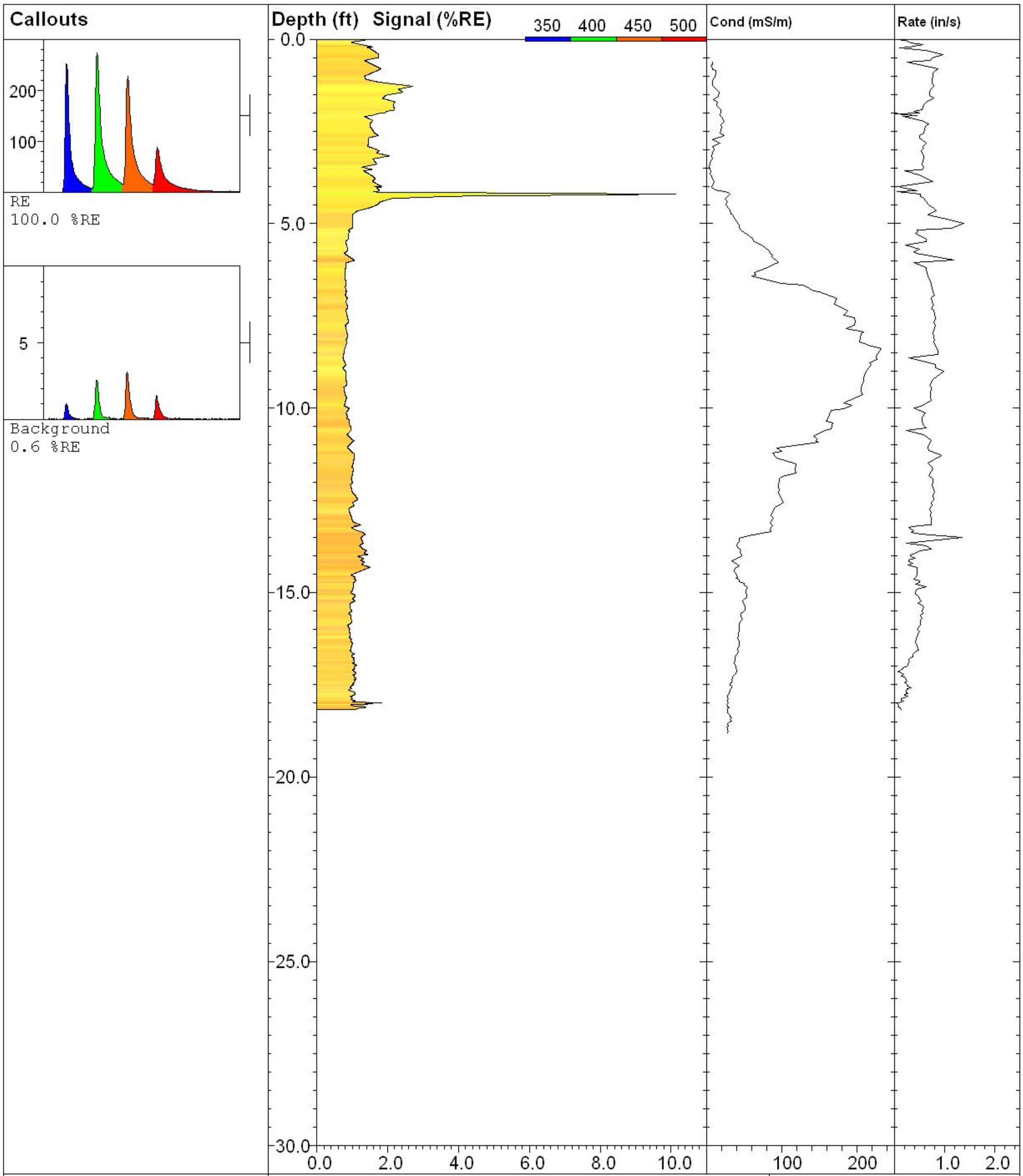
MATRIX ENVIRONMENTAL LLC
www.matrixenv.com



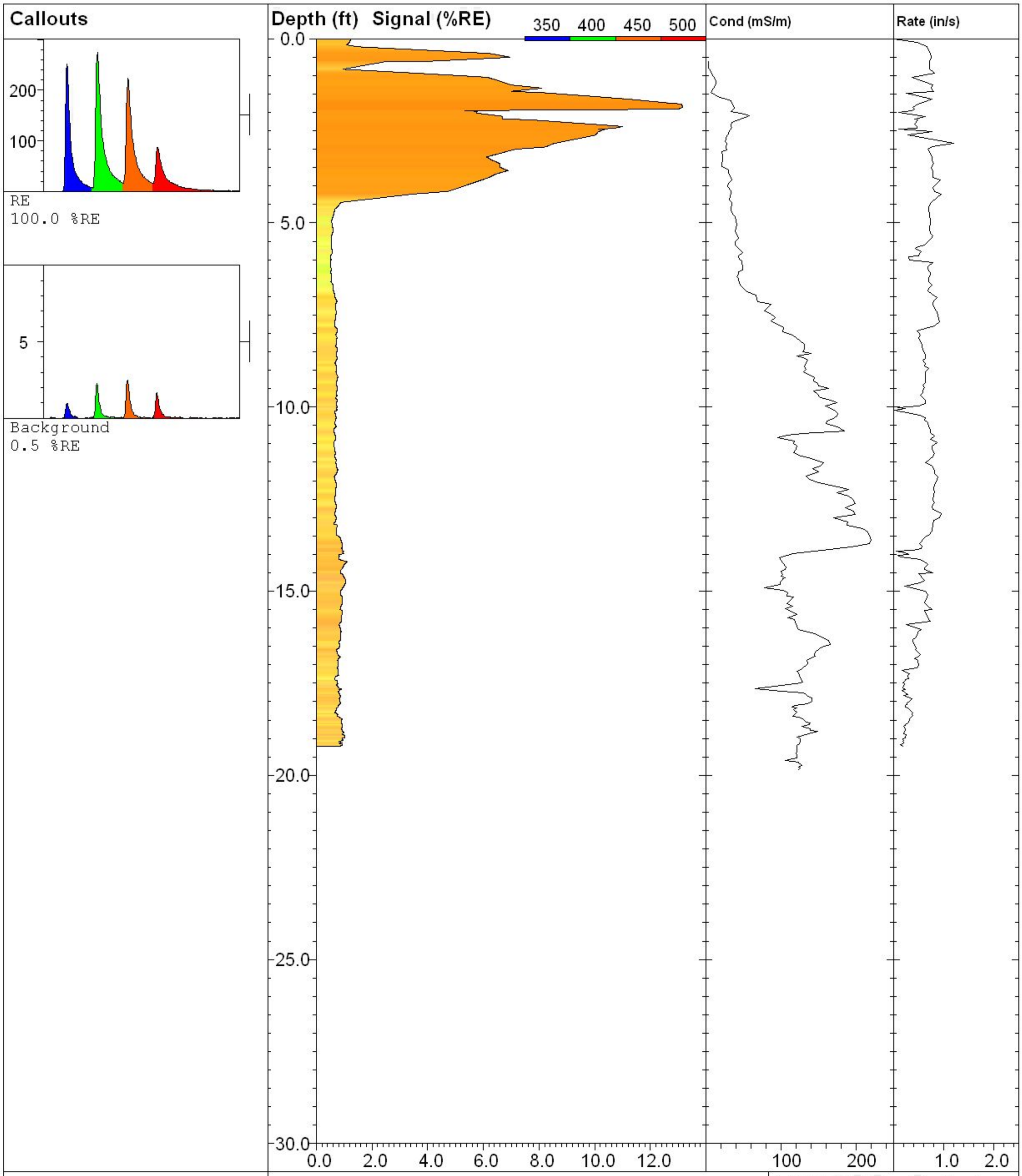
LIF-83-019		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **33.78 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **114.3 % @ 6.63 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-29 14:18 CDT**

MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

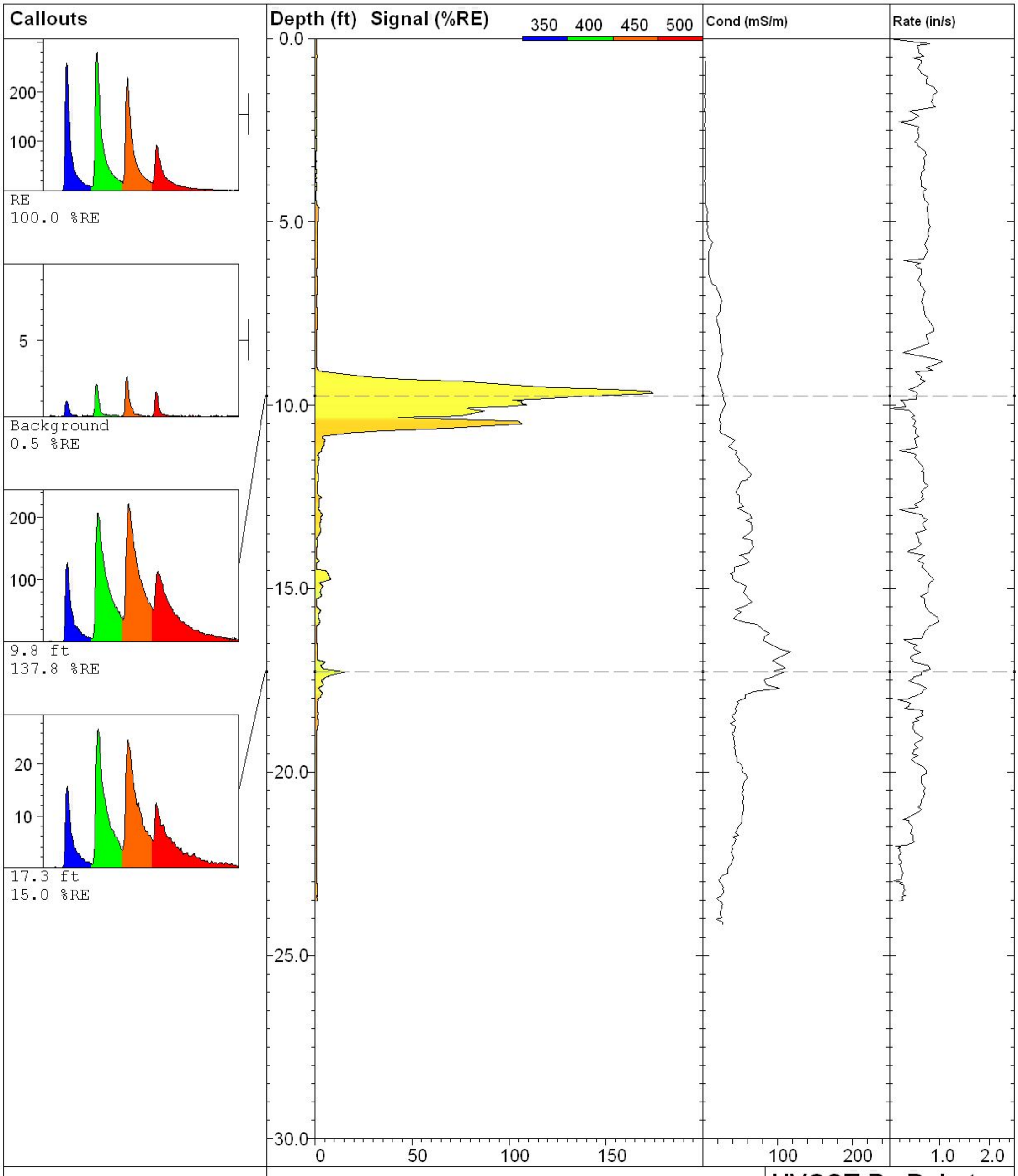
UVOST LOGS
@ Best Fit Scale



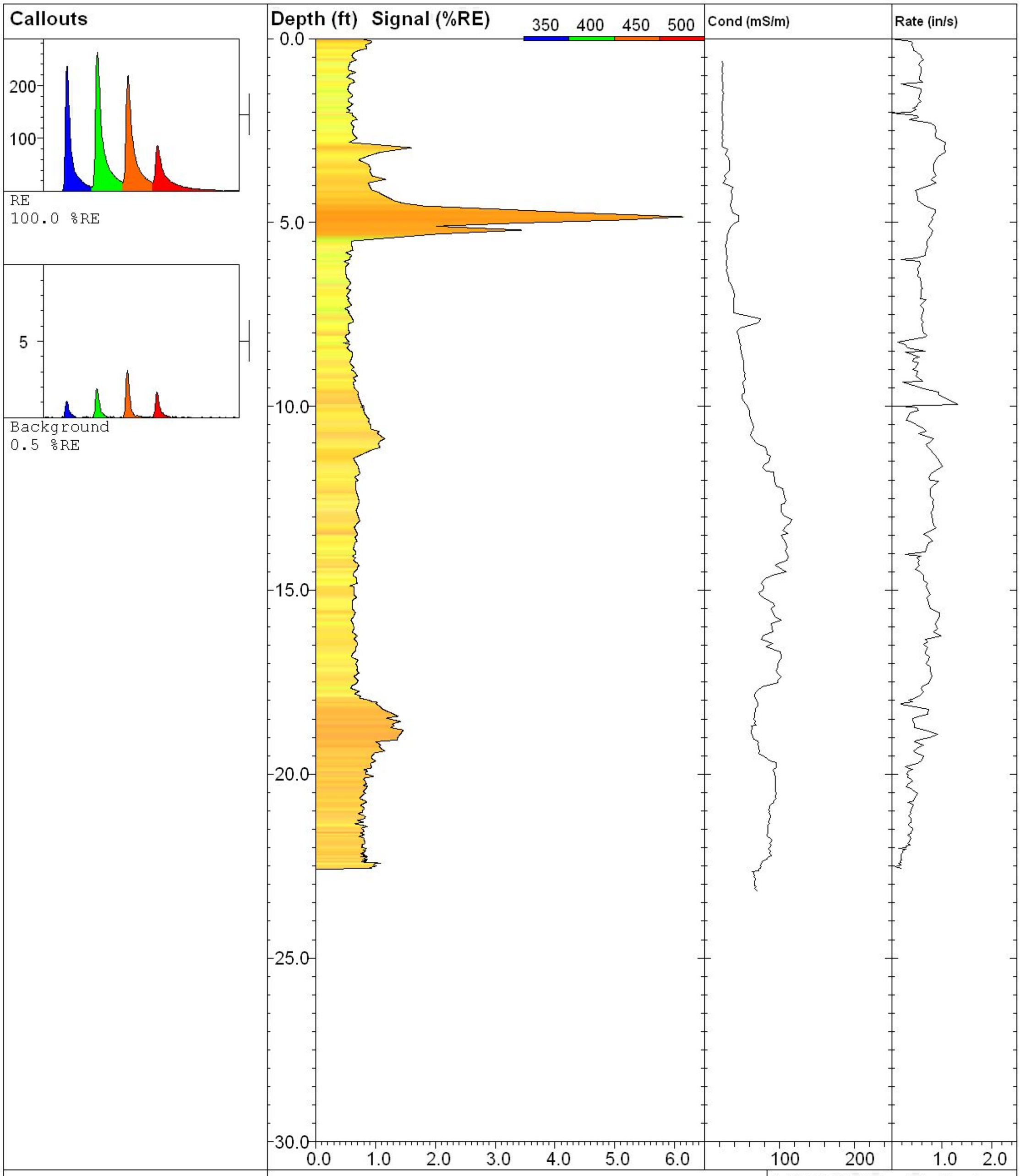
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-001**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **18.17 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **10.1 % @ 4.20 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-17 08:27 CDT**



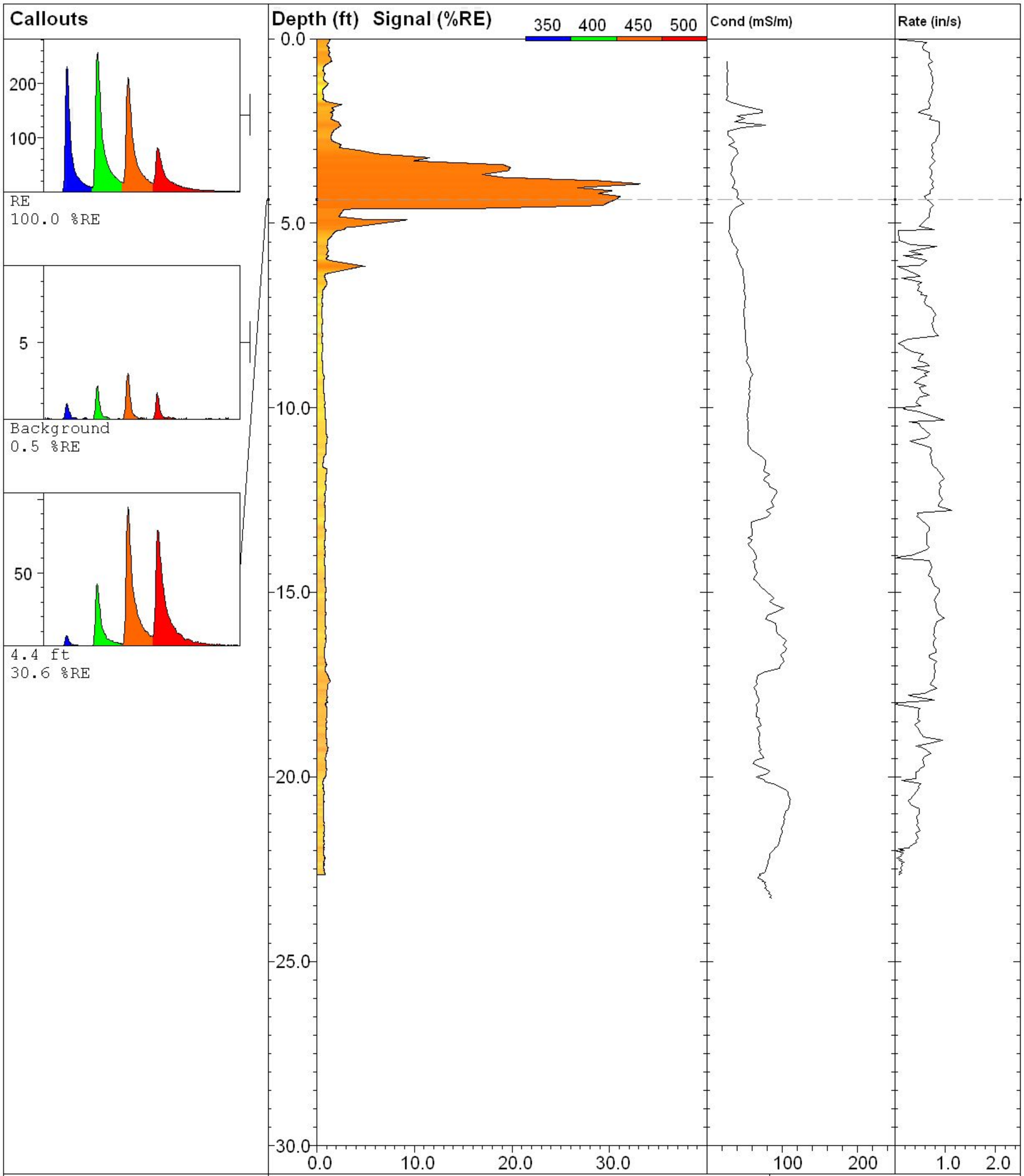
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-002**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **19.21 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **13.2 % @ 1.86 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-17 11:27 CDT**



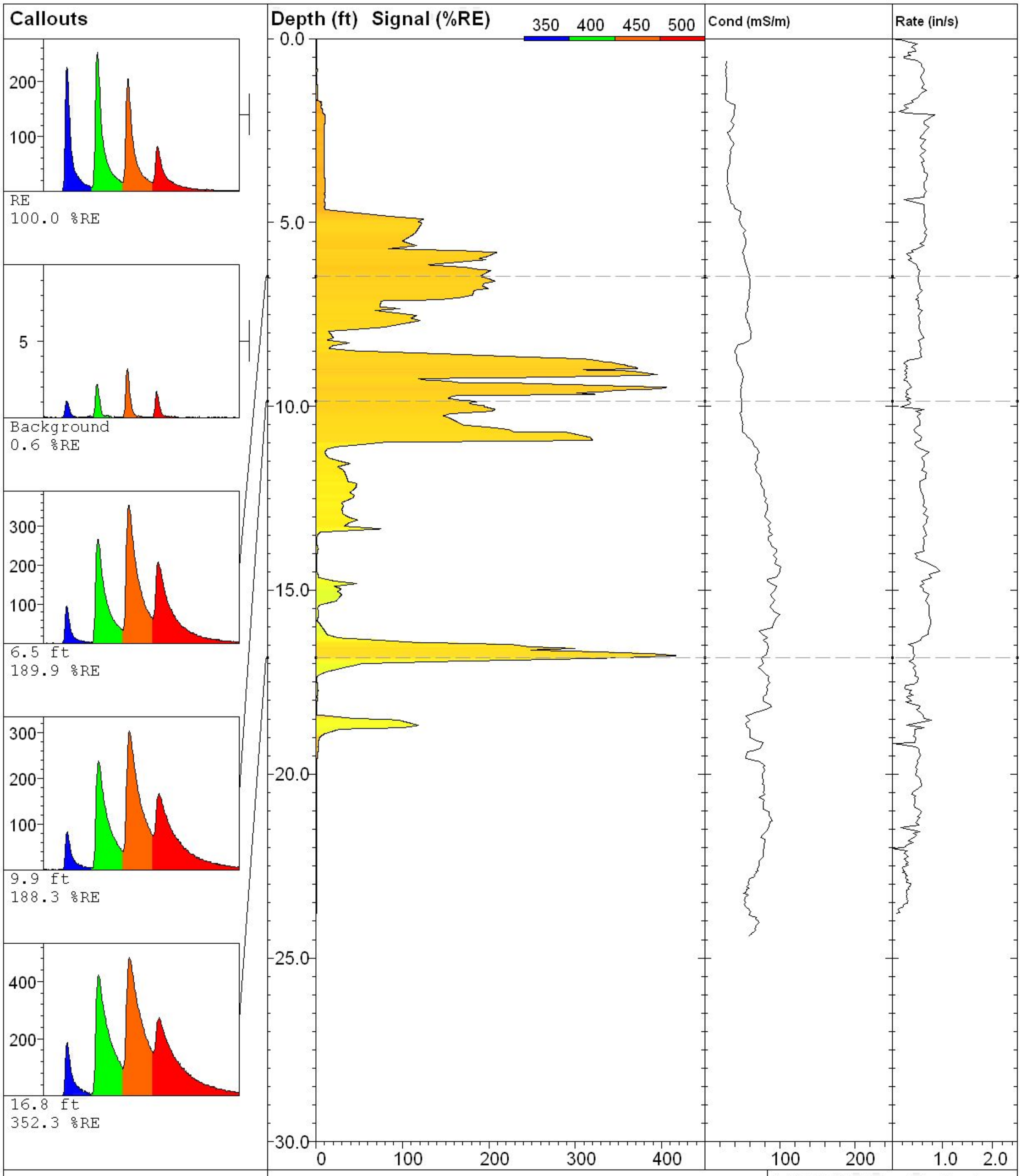
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-003**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **23.52 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **174.5 % @ 9.68 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-17 12:17 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-004**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **22.57 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **6.1 % @ 4.85 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-22 07:57 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-005**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **22.66 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **33.2 % @ 3.94 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-22 08:35 CDT**

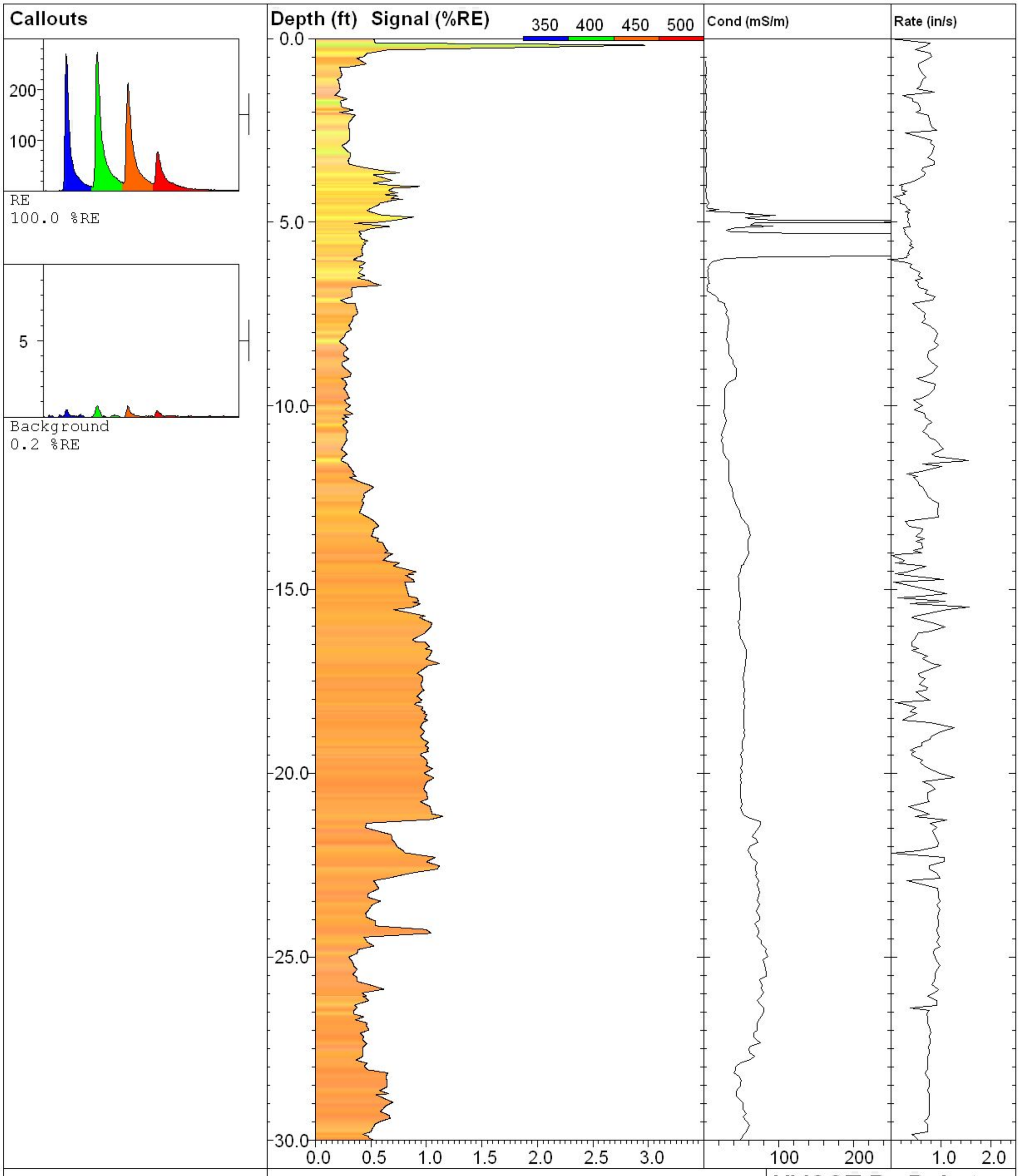


LIF-83-006

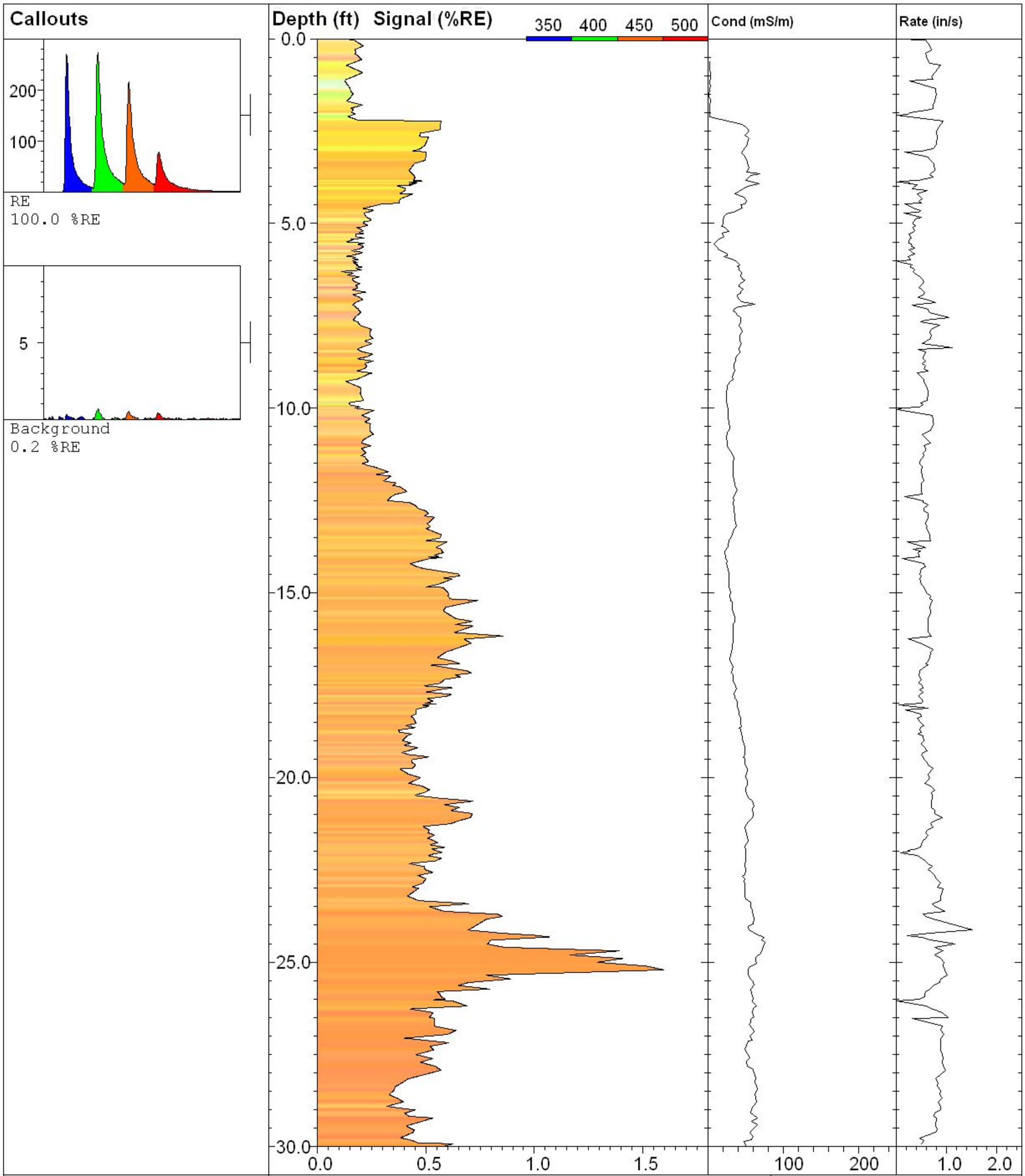
UVOST By Dakota
www.DakotaTechnologies.com

Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **23.78 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **417.6 % @ 16.78 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-22 09:14 CDT**

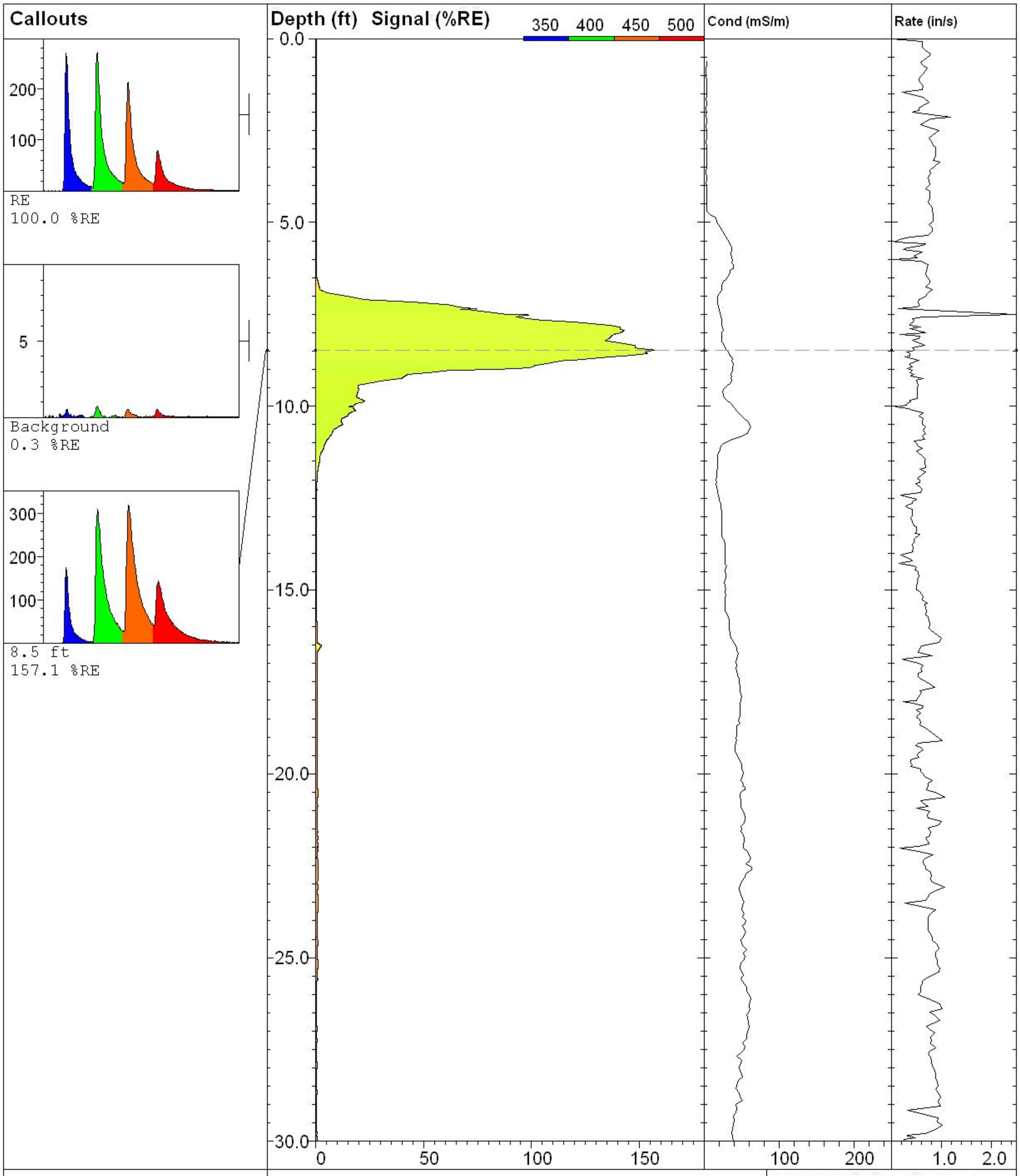
MATRIX ENVIRONMENTAL LLC
www.matrixenv.com



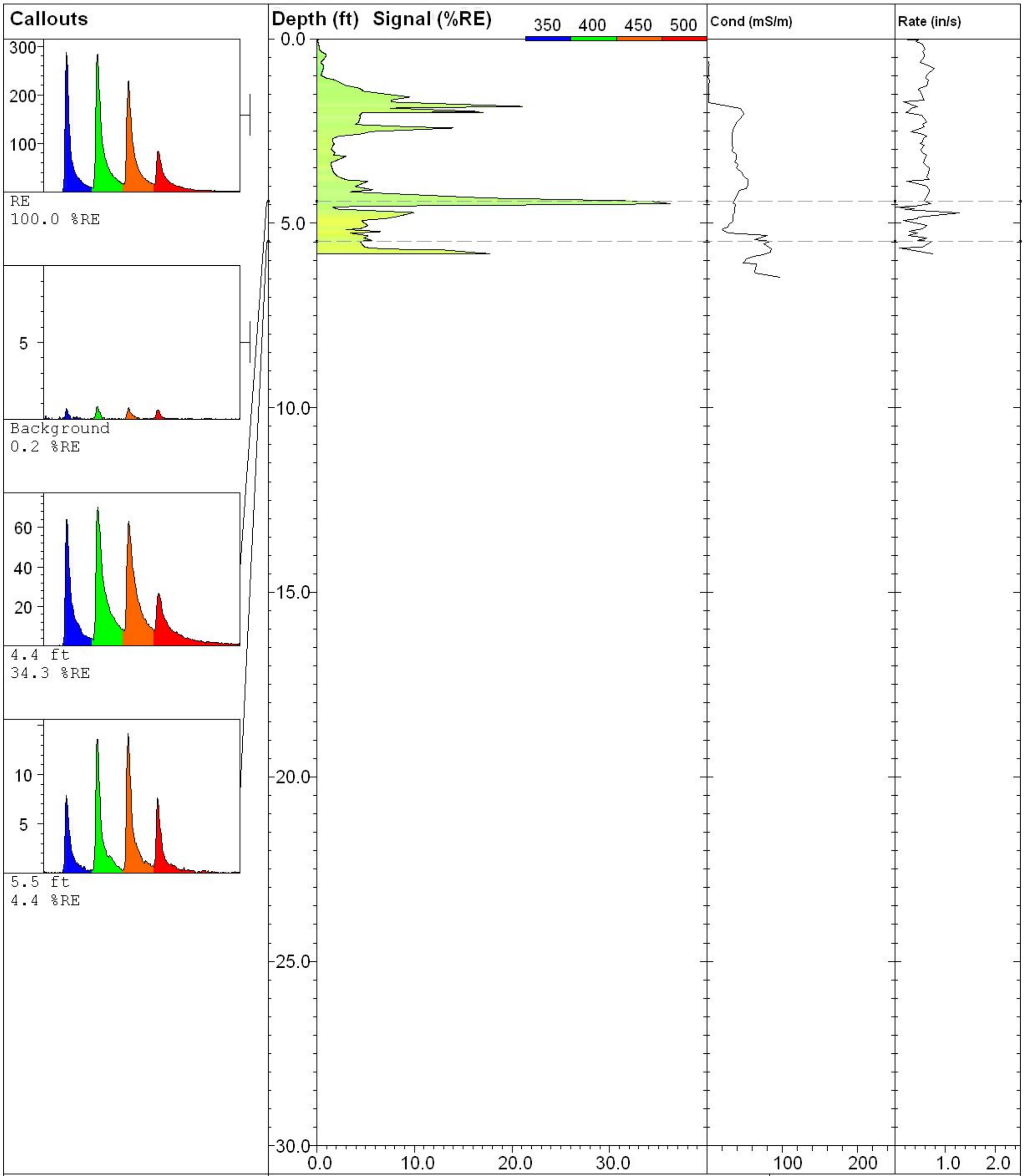
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-007**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **3.0 % @ 0.18 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-27 15:40 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-008**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.08 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.6 % @ 25.21 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-27 16:27 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-009**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **157.1 % @ 8.47 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-27 17:04 CDT**

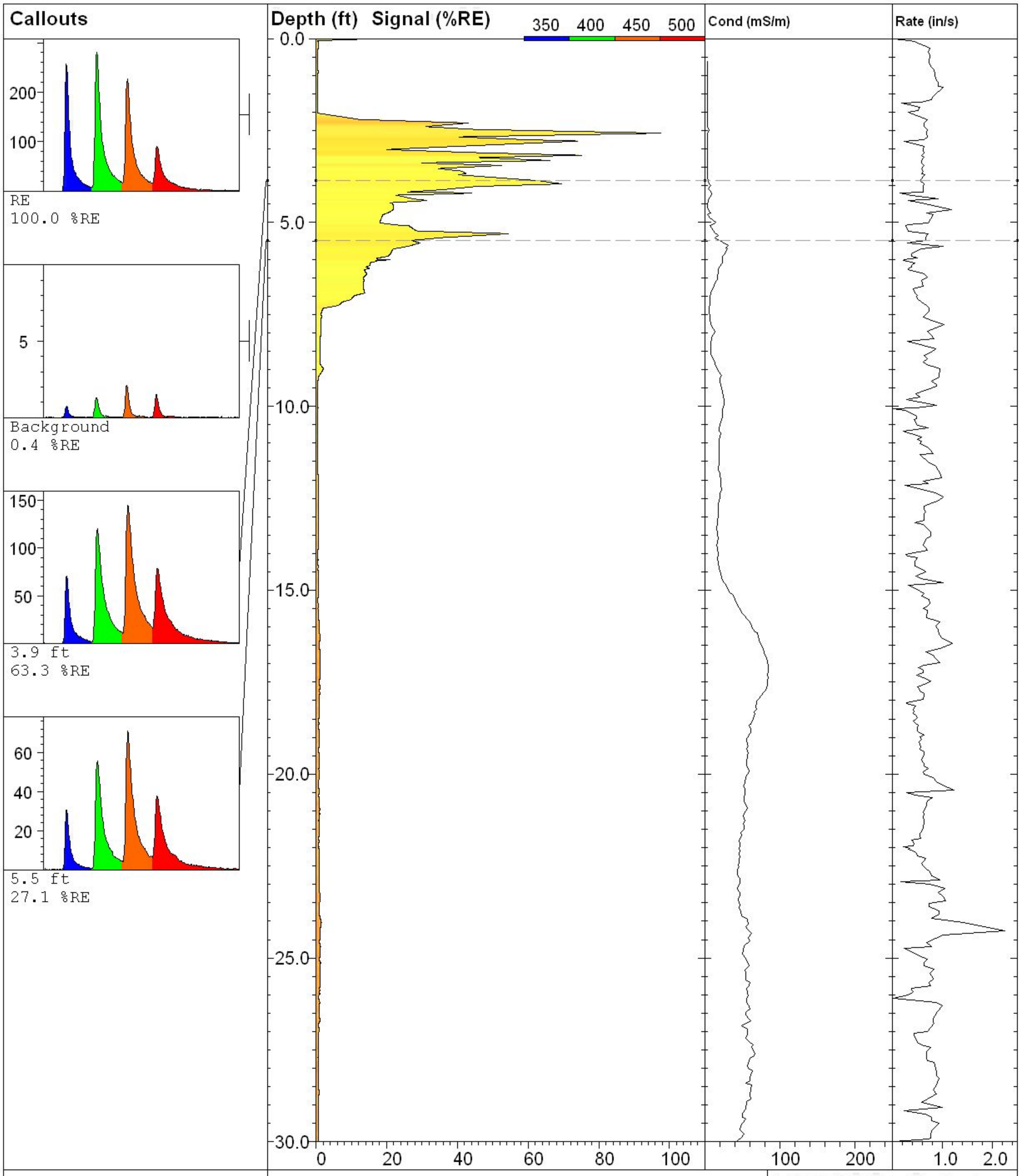


MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

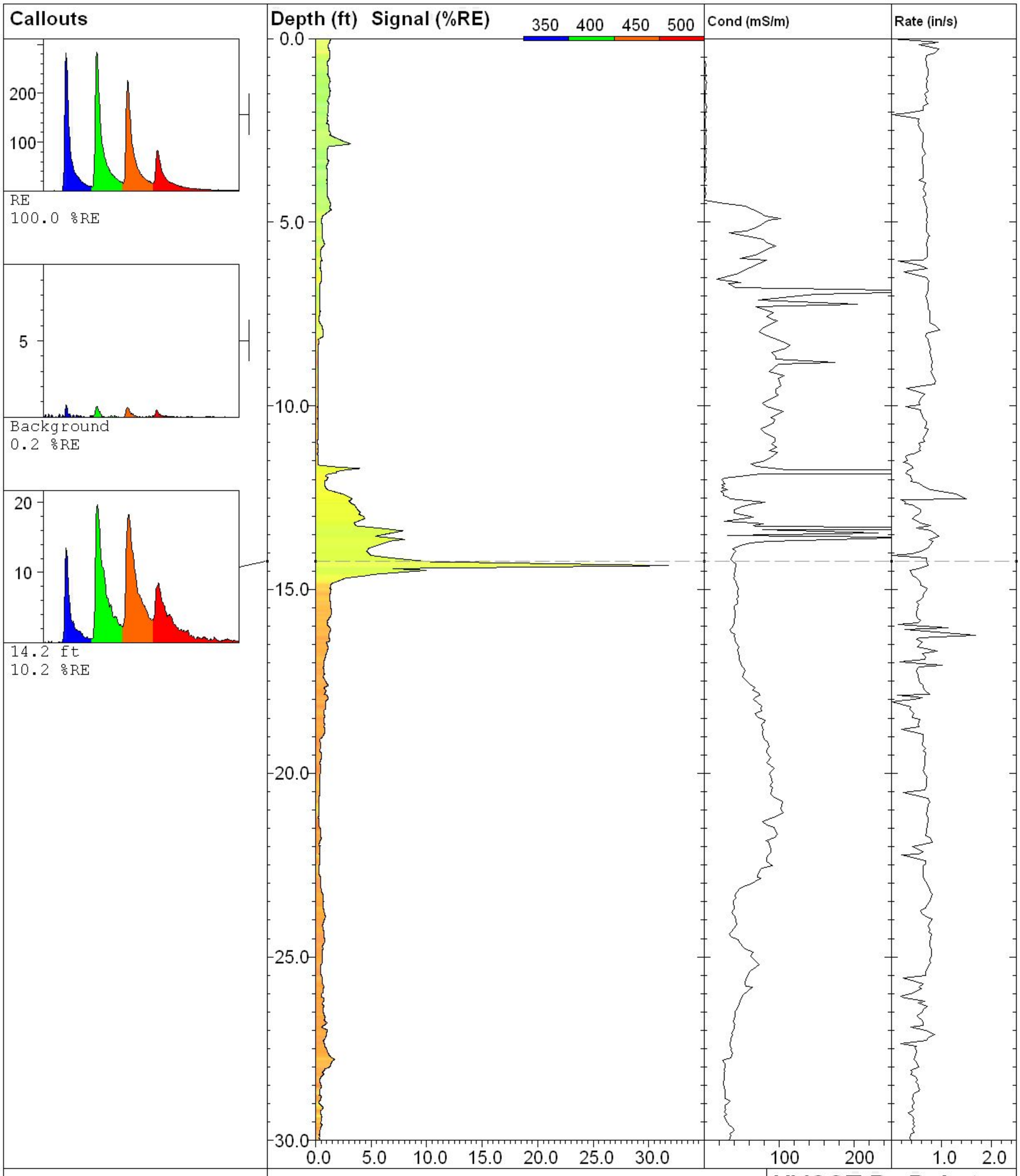
LIF-83-010

UVOST By Dakota
www.DakotaTechnologies.com

Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **5.83 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **36.3 % @ 4.47 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-28 07:22 CDT**

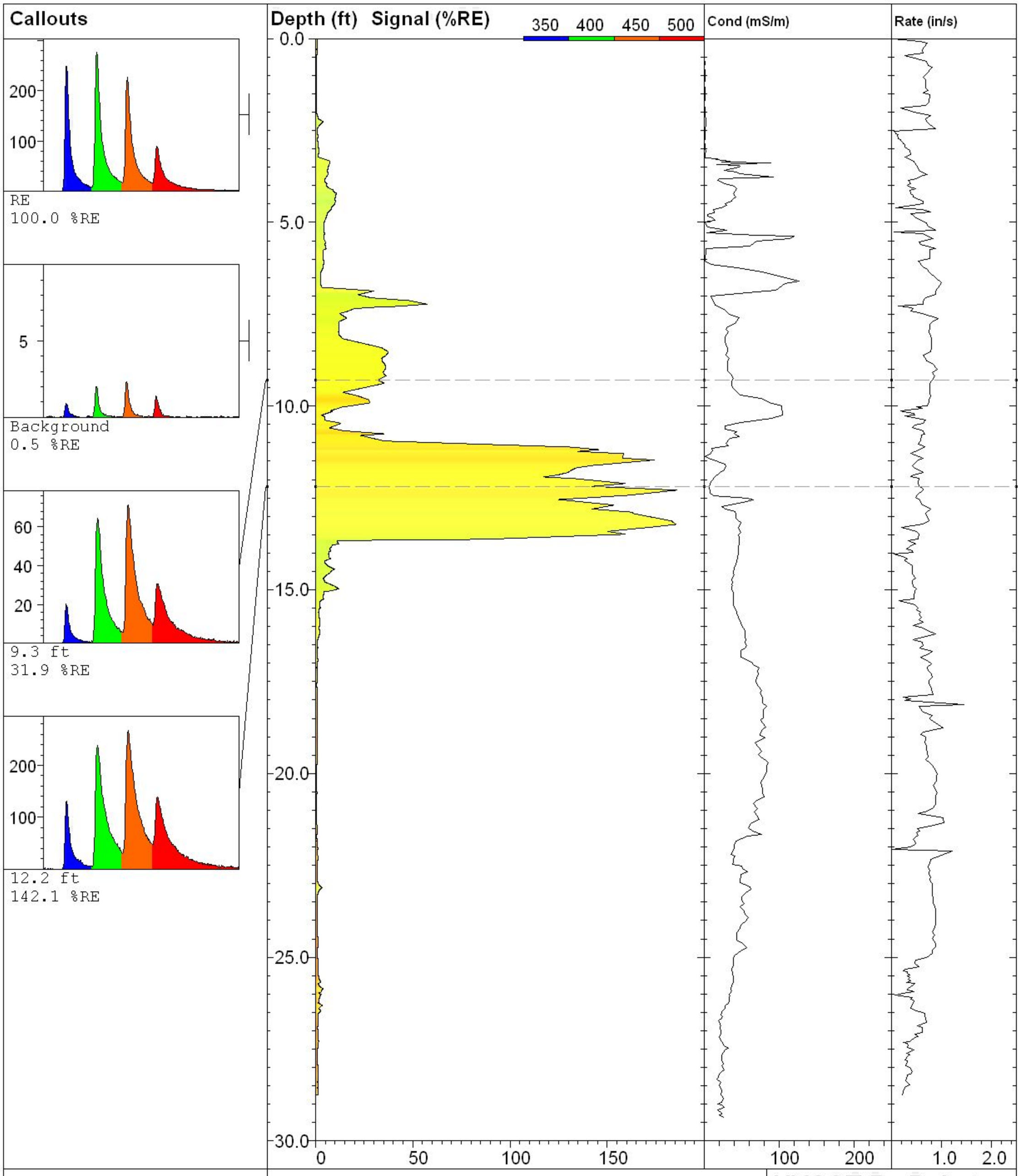


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-010A**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.02 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **98.1 % @ 2.57 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-29 15:19 CDT**

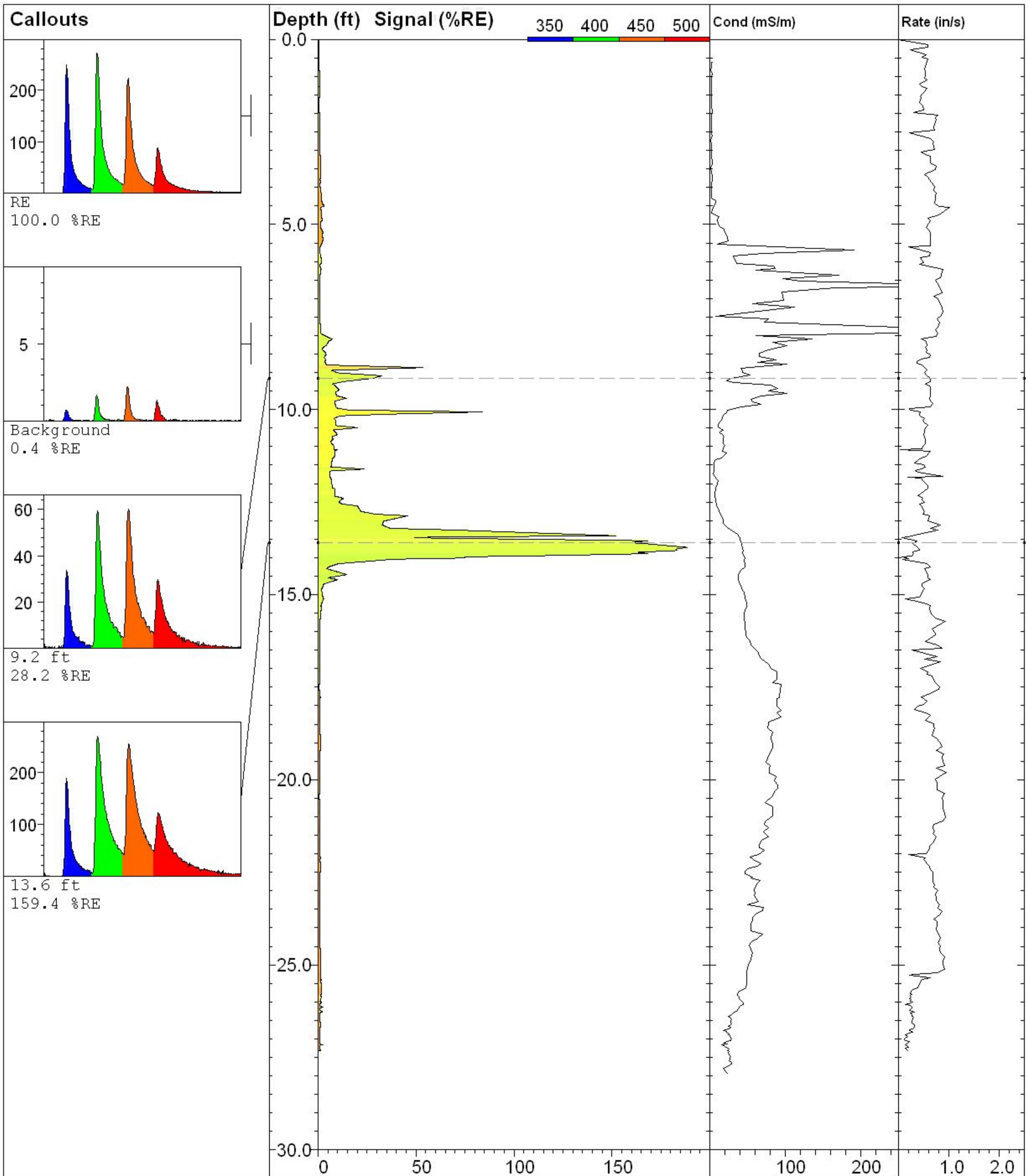


LIF-83-011		**UVOST By Dakota** www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **31.9 % @ 14.35 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-28 07:49 CDT**

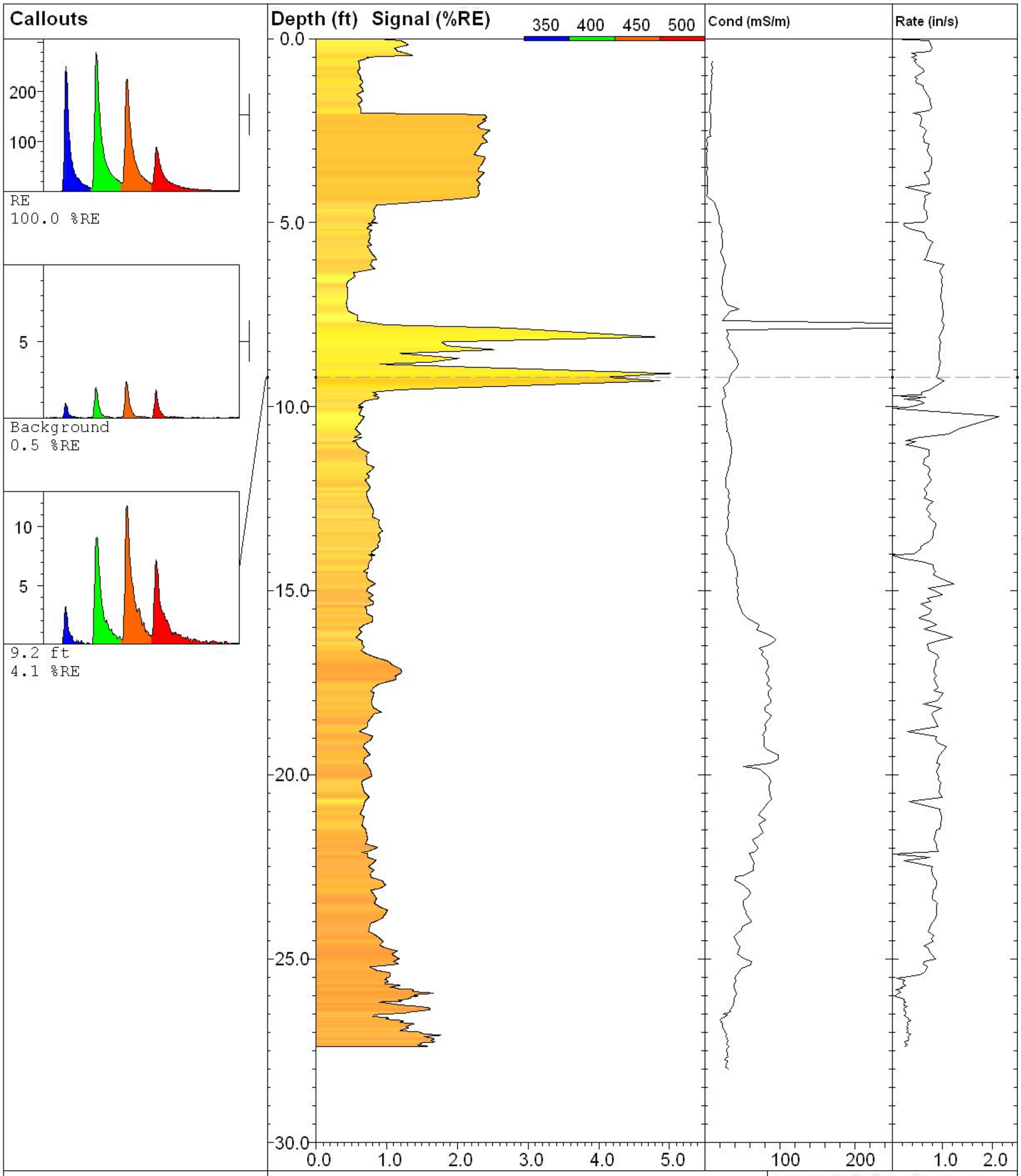
MATRIX ENVIRONMENTAL LLC
www.matrixenv.com



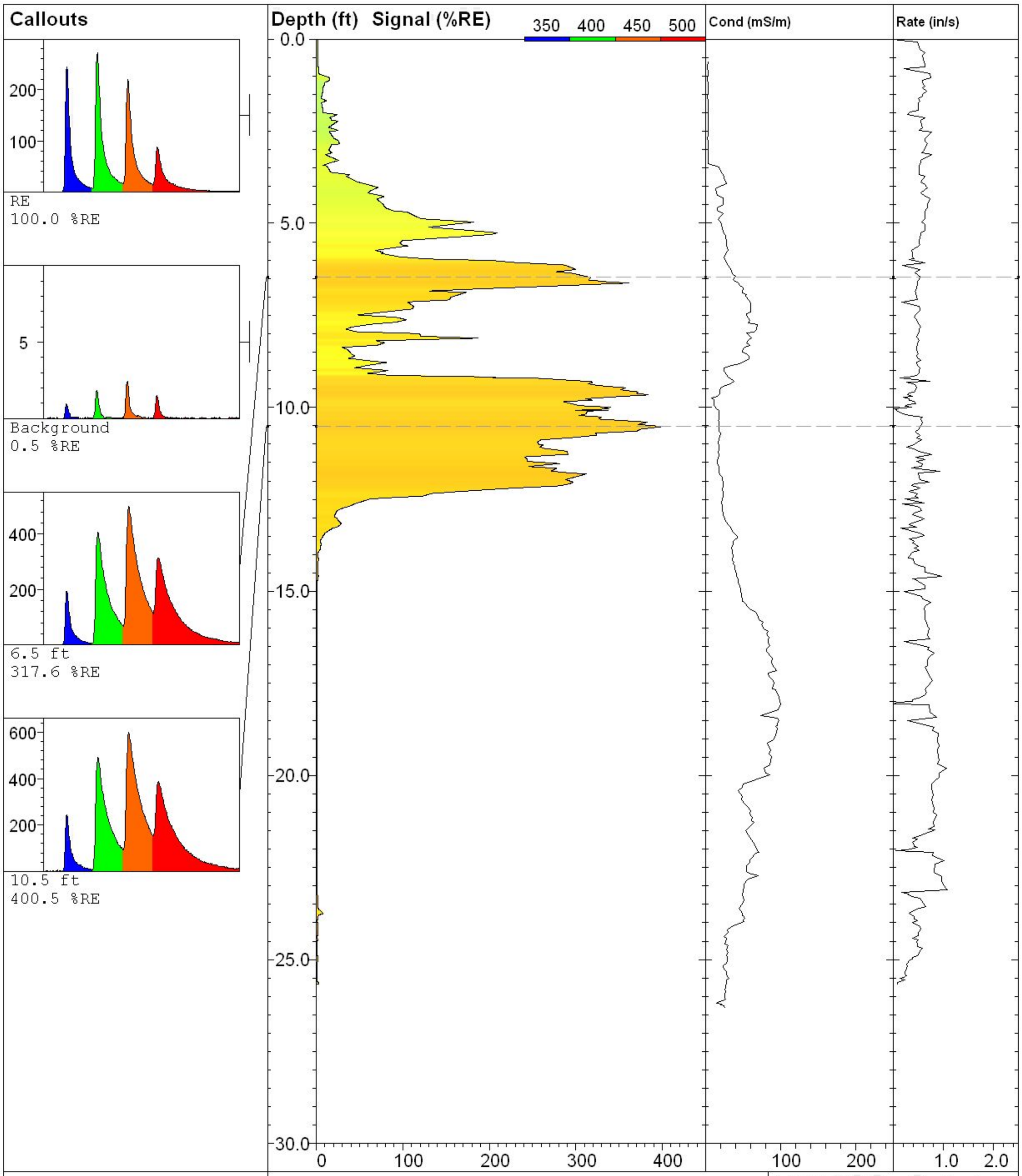
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-012**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **28.74 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **186.1 % @ 12.29 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-28 08:58 CDT**



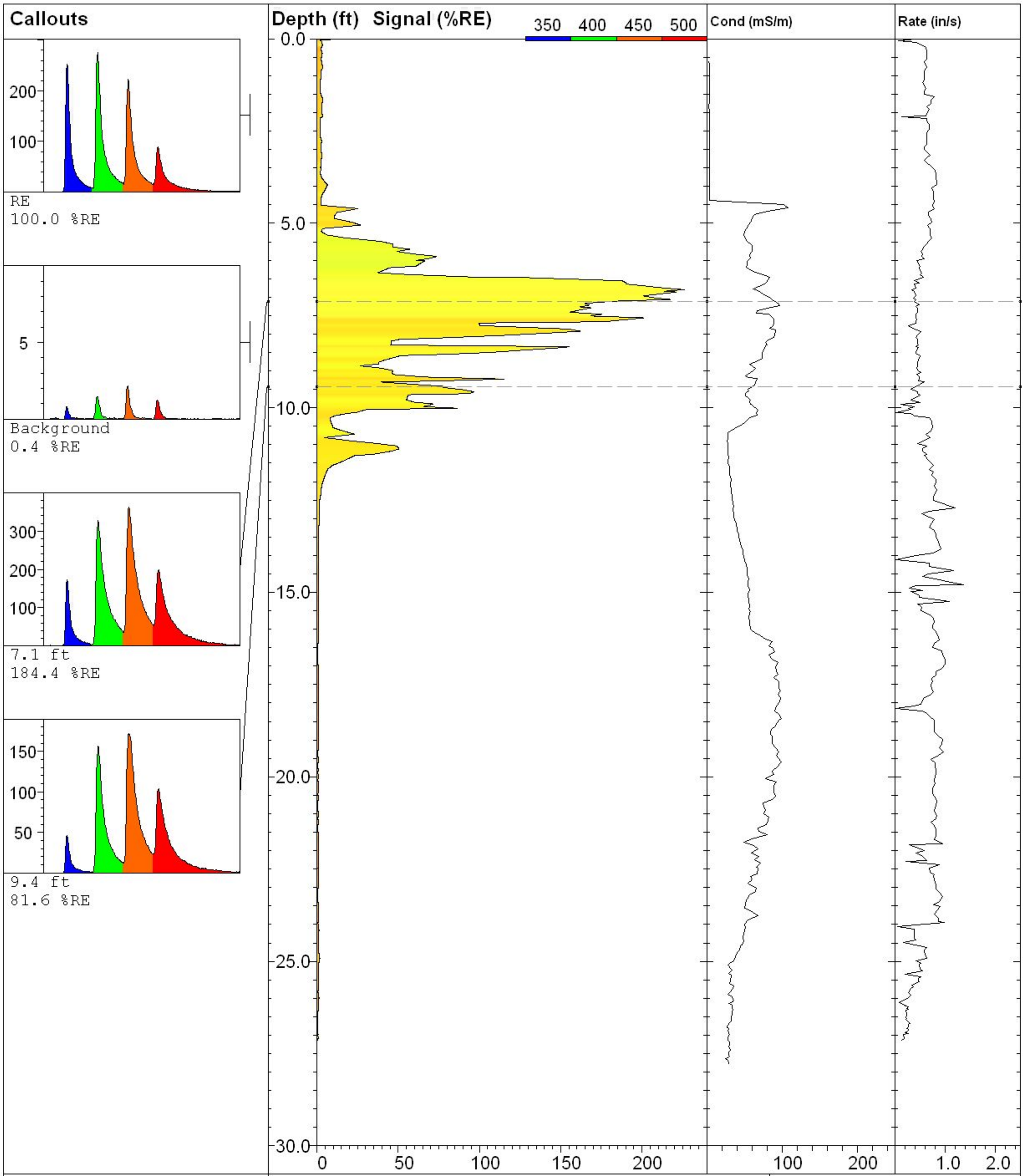
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-013**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **27.32 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **188.7 % @ 13.72 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-28 12:49 CDT**



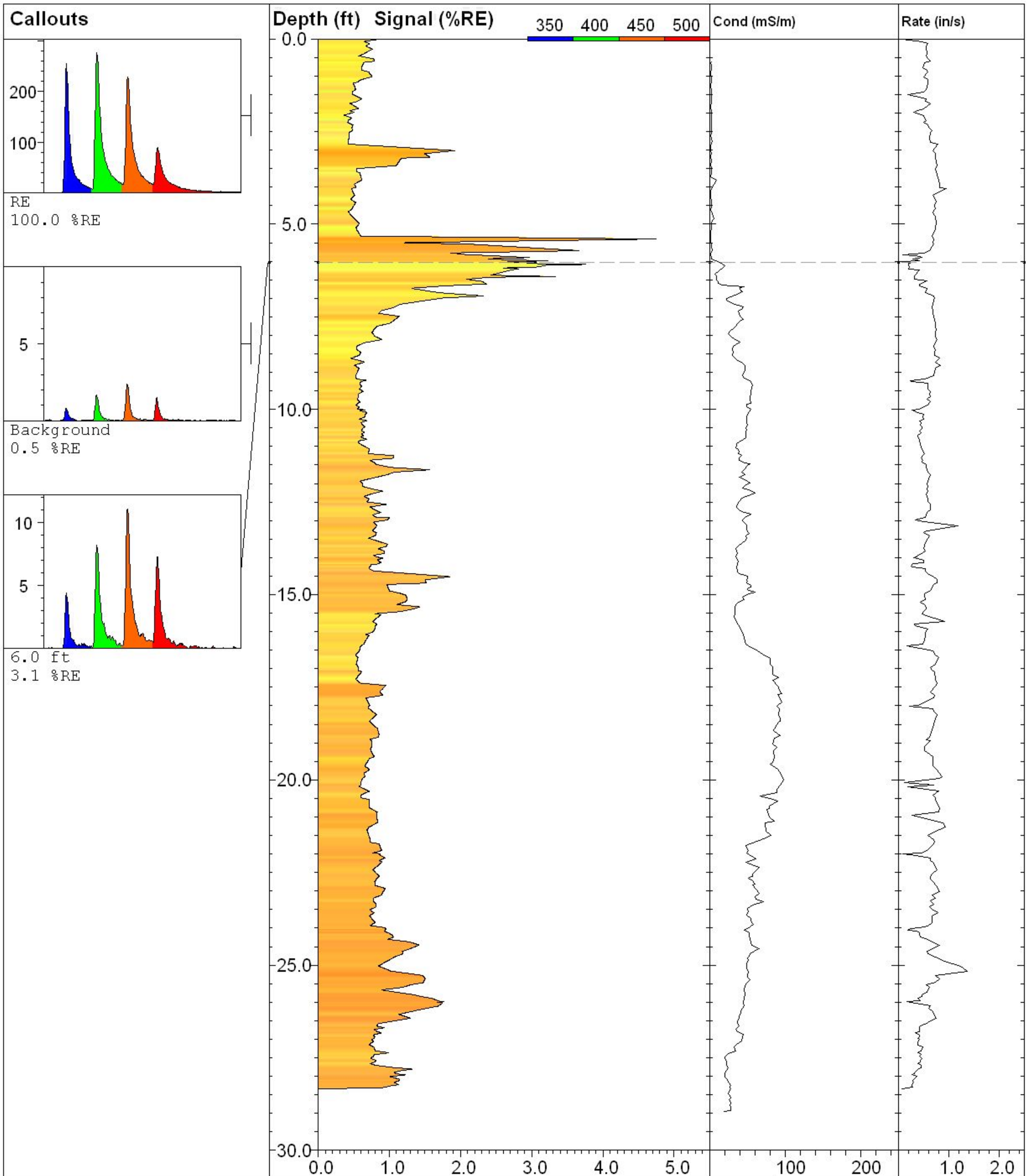
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-014**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **27.39 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **5.0 % @ 9.10 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-28 13:32 CDT**



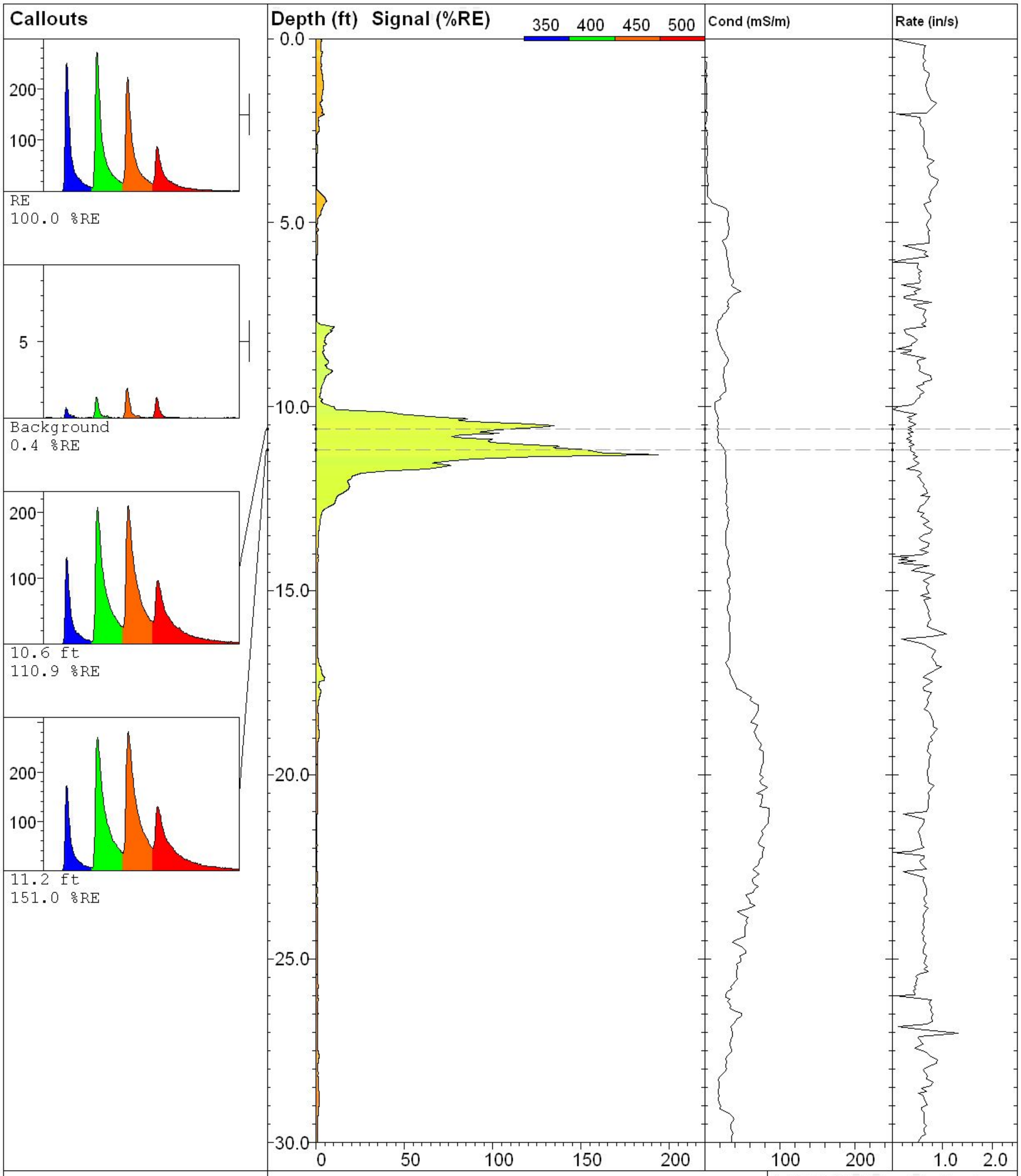
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-015**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **25.68 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **400.5 % @ 10.52 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-28 14:09 CDT**



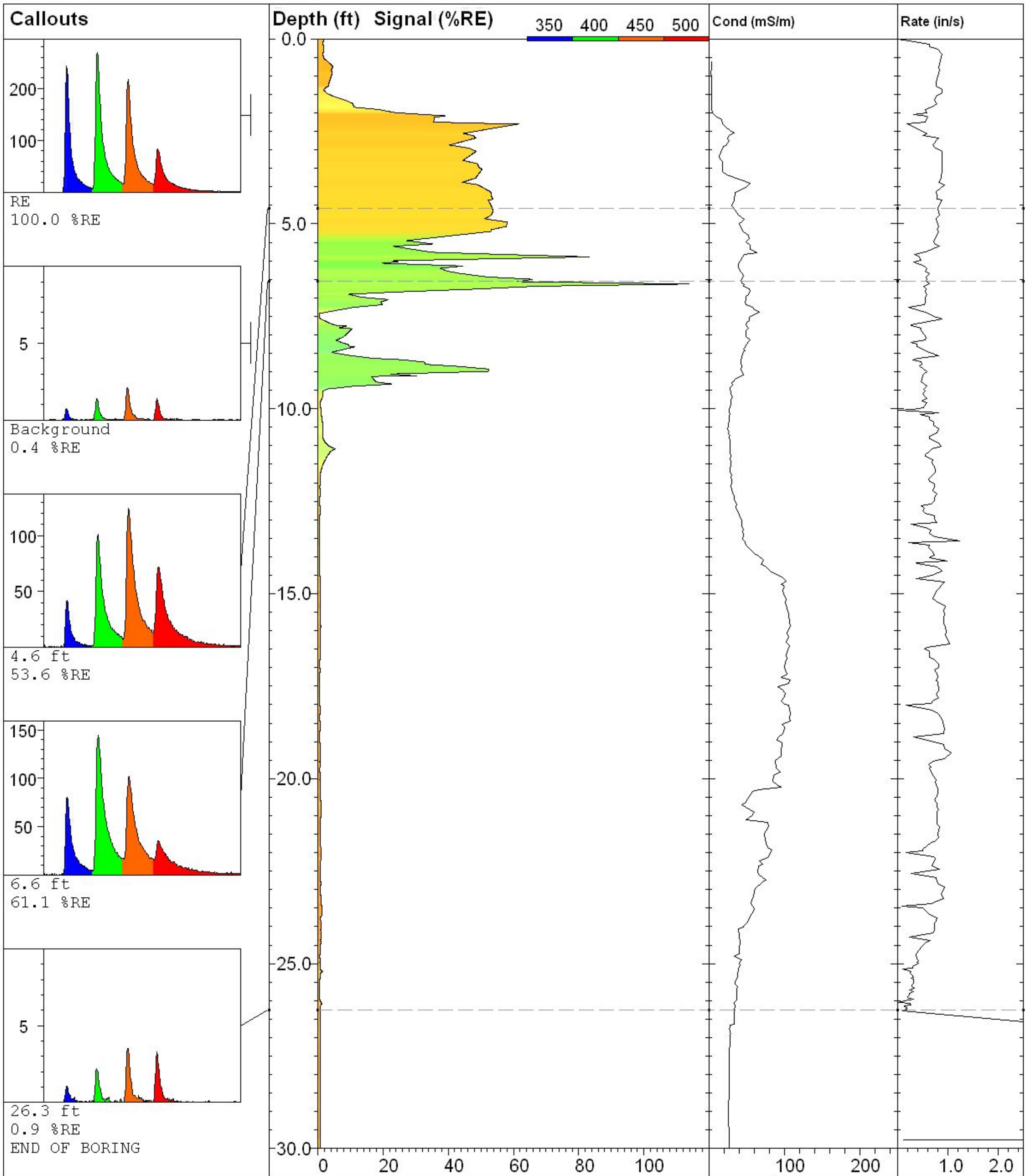
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-016**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **27.15 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **226.3 % @ 6.80 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-28 15:39 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-017**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **28.33 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **4.8 % @ 5.40 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-29 07:42 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-83-018**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.02 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **194.3 % @ 11.31 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-29 08:19 CDT**



MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

LIF-83-019		UVOST By Dakota www.DakotaTechnologies.com
Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **33.78 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **114.3 % @ 6.63 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-29 14:18 CDT**

Buick City
Area 86

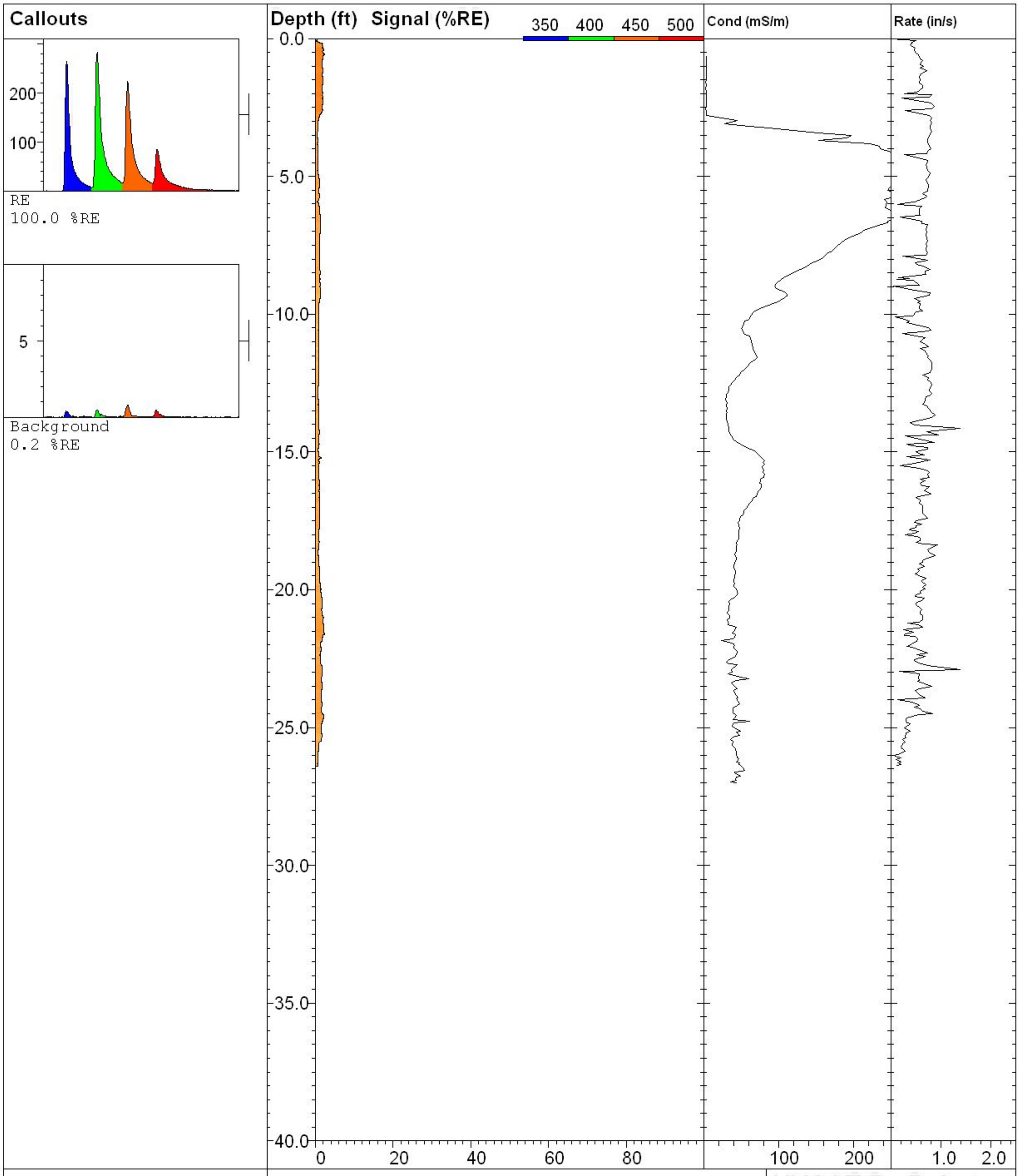
11253 91st Avenue North
Maple Grove, Minnesota
(763) 424-4803
fax (763) 424-9452

Client:	ARCADIS
Contact:	Megan Reightler
Services:	UVOST Logging
Date:	10/10/2011 - 10/29/2011
Project:	Buick City
Project #:	135-MNDS-11UV
Address:	Flint, MI

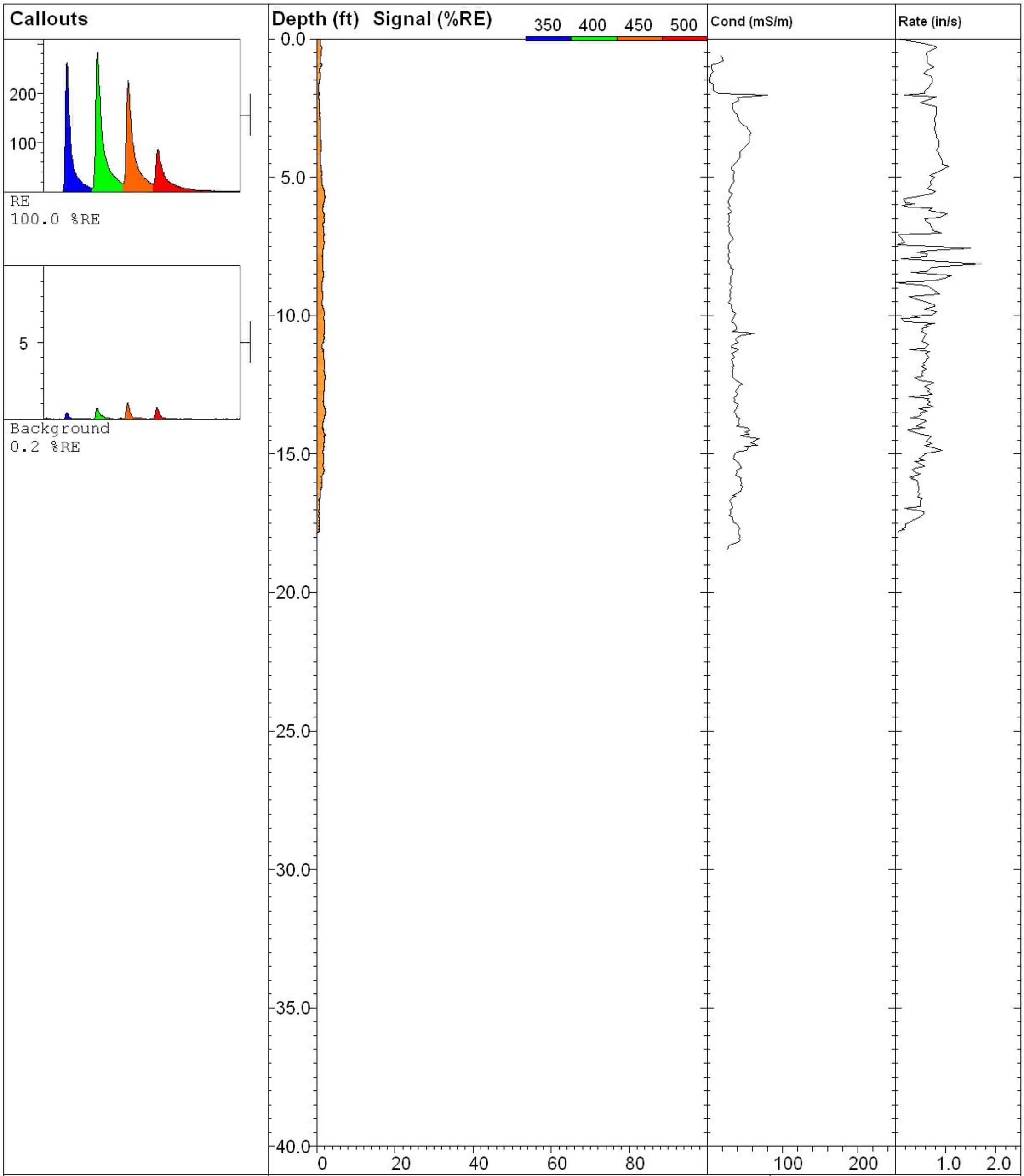
UVOST Log Summary

File	Date/Time	Latitude	Longitude	Final Depth *(ft)*	Max Signal *(%RE)*	Max. Signal Depth *(ft)*	Initial RE Area *(pVs)*	Background Area *(pVs)*	Fluorescence Top - Bottom *(ft)*
LIF-86-001	10/14/2011 9:19	NA	NA	26.4	2	0.6	11539	21	NA
LIF-86-002	10/14/2011 10:00	NA	NA	17.8	2	13.5	11849	26	NA
LIF-86-003	10/14/2011 10:59	NA	NA	30.0	4	26.0	11841	23	NA see log
LIF-86-004	10/14/2011 13:03	NA	NA	38.0	419	30.0	11763	24	13.5-23.1, 28.9-34.5
LIF-86-005	10/14/2011 15:26	NA	NA	30.0	1	28.6	11463	19	NA

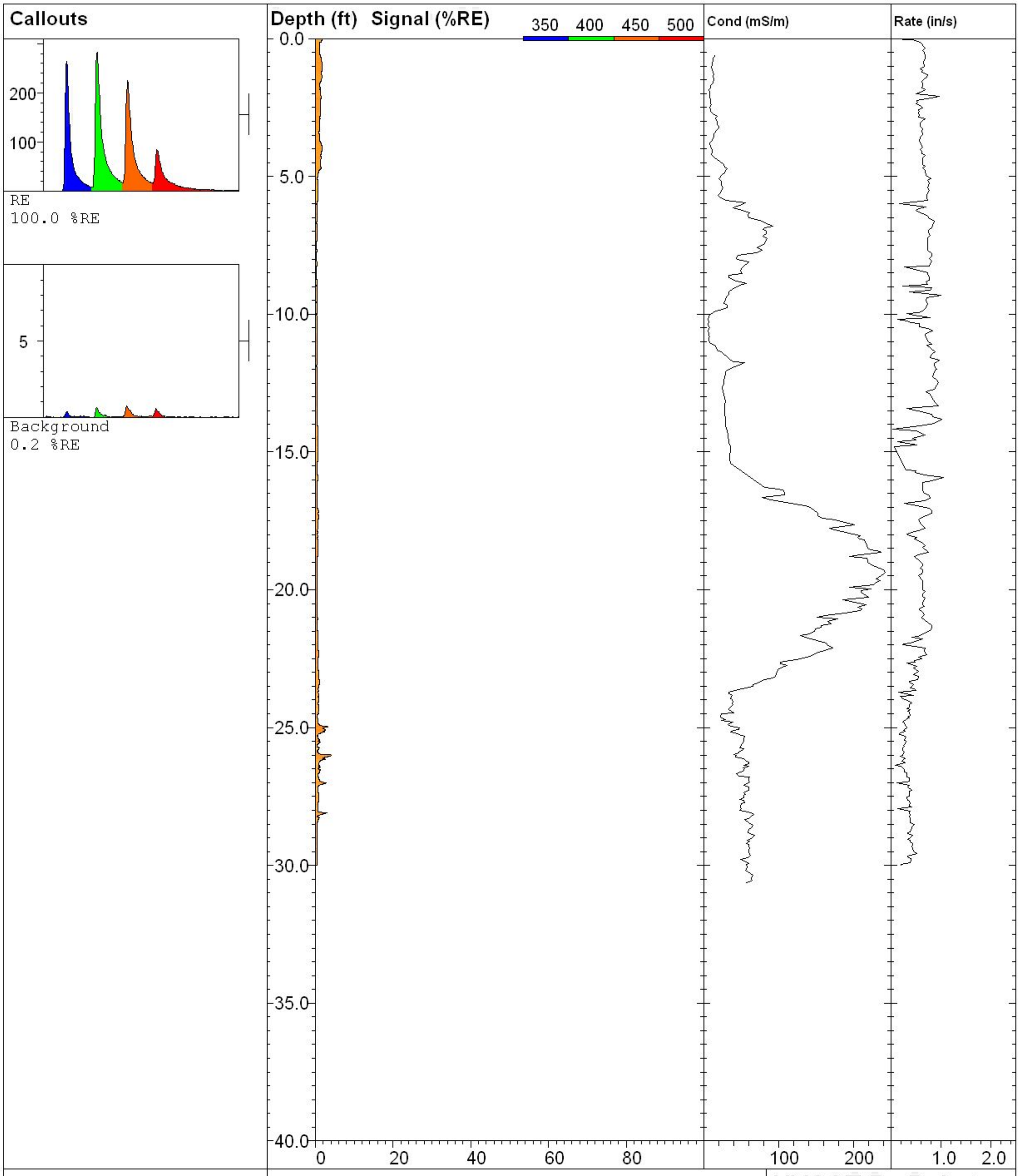
UVOST LOGS
@ 100% RE



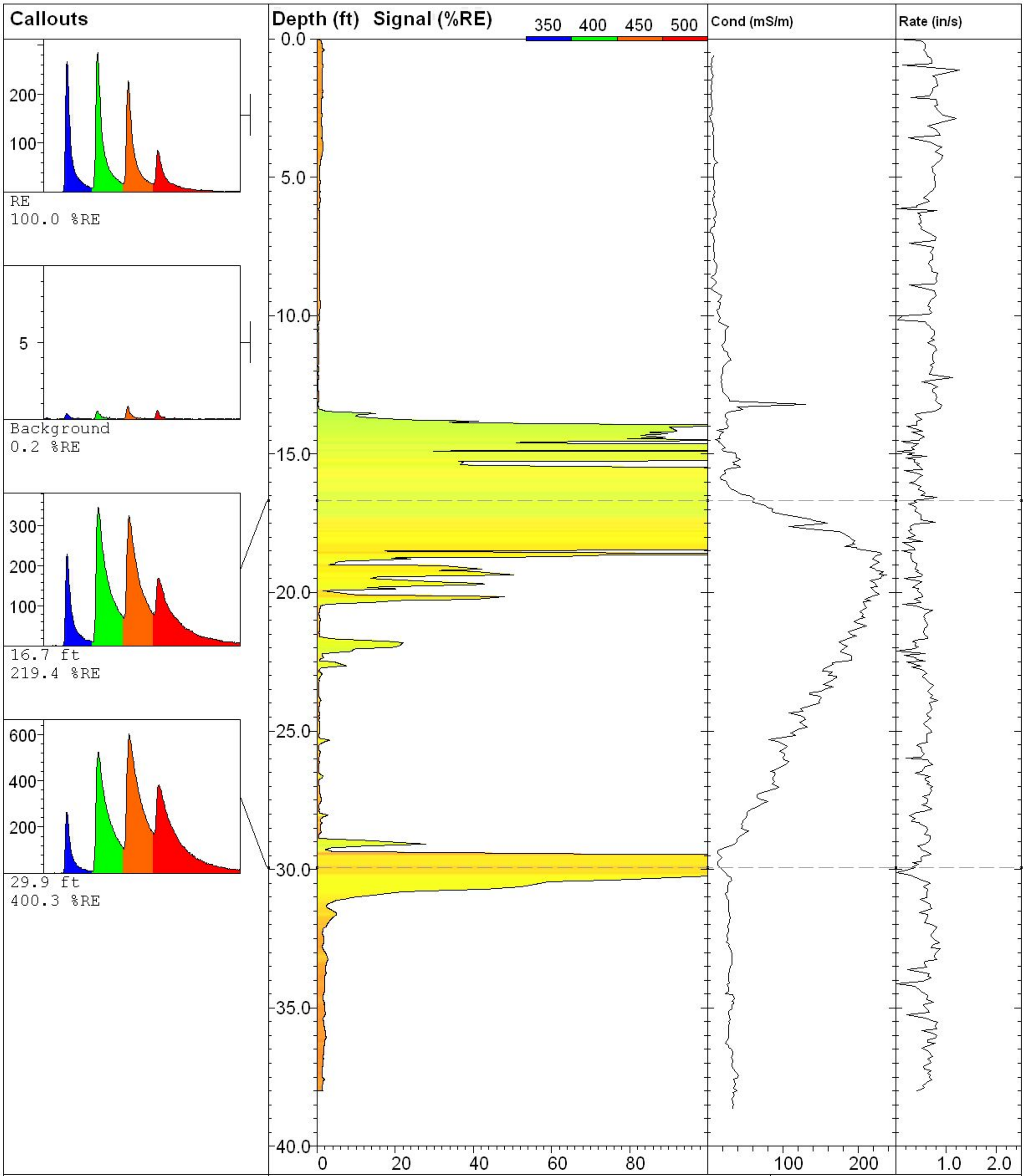
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-86-001**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **26.40 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **2.4 % @ 0.58 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-14 09:19 CDT**



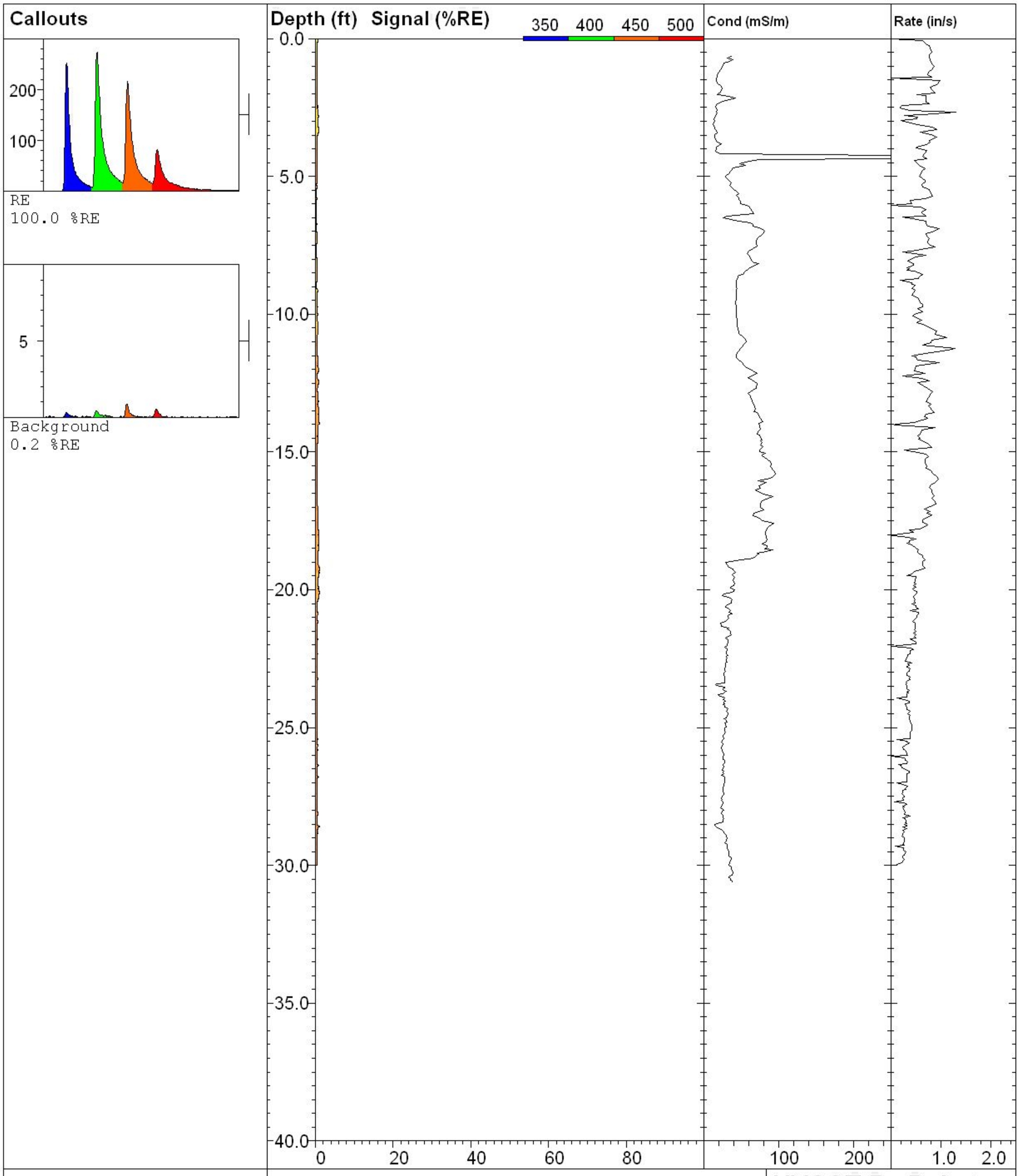
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-86-002**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **17.81 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **2.3 % @ 13.51 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-14 10:00 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-86-003**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **4.2 % @ 26.00 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-14 10:59 CDT**

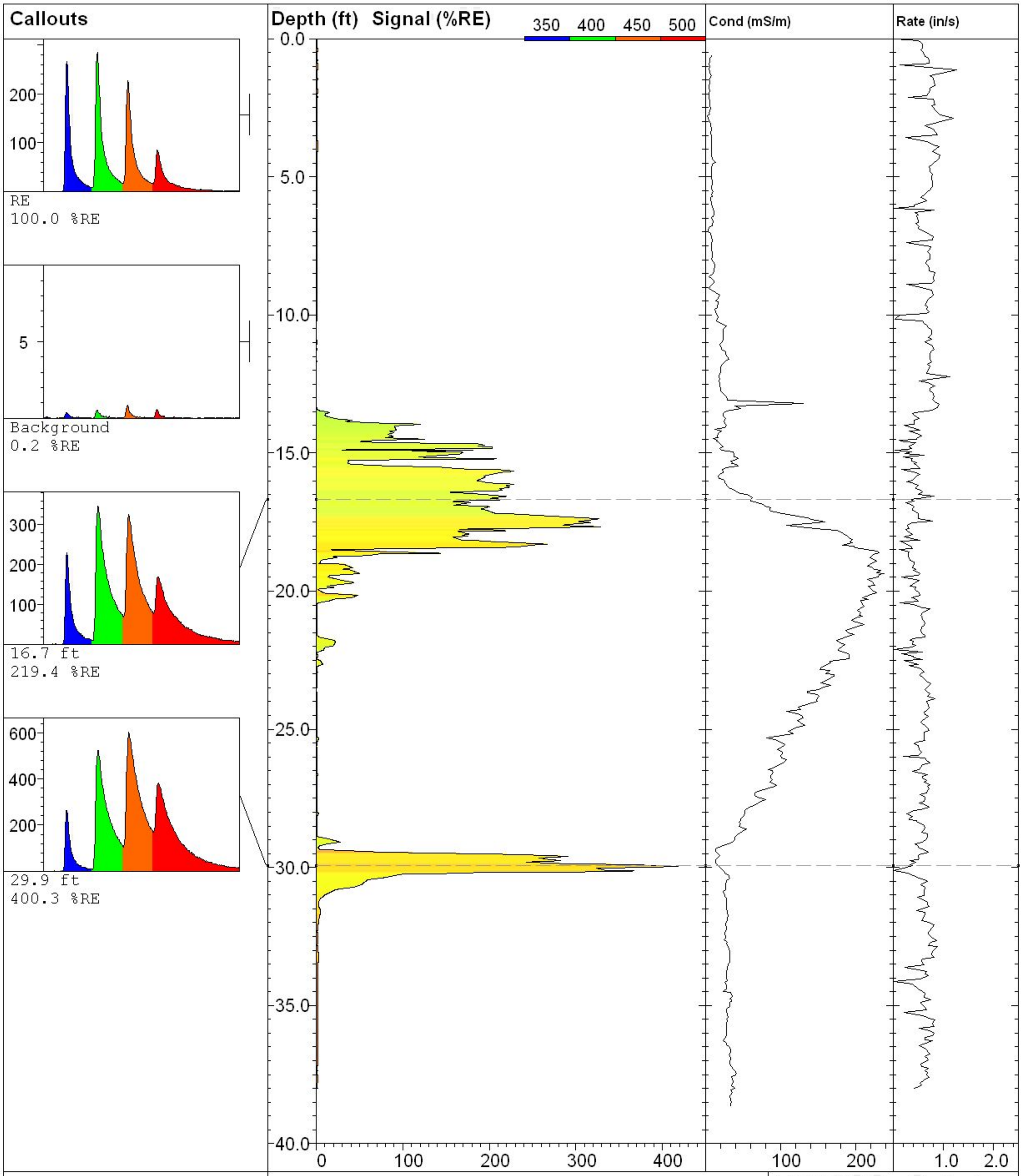


MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-86-004**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **38.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **418.6 % @ 29.97 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-14 13:03 CDT**



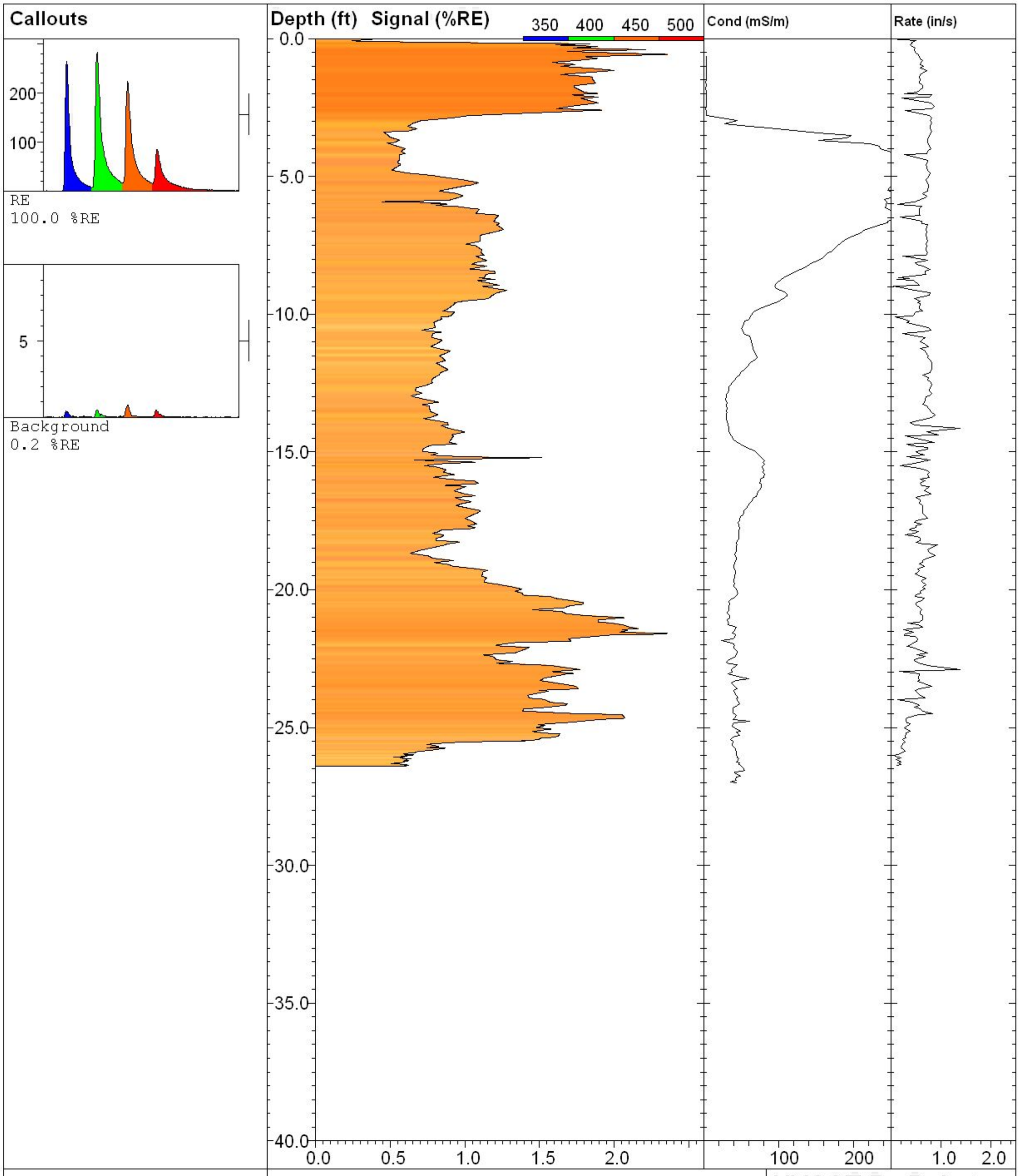
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-86-005**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.1 % @ 28.58 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-14 15:26 CDT**

UVOST LOGS
@ 450% RE



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-86-004**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **38.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **418.6 % @ 29.97 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-14 13:03 CDT**

UVOST LOGS
@ Best Fit Scale

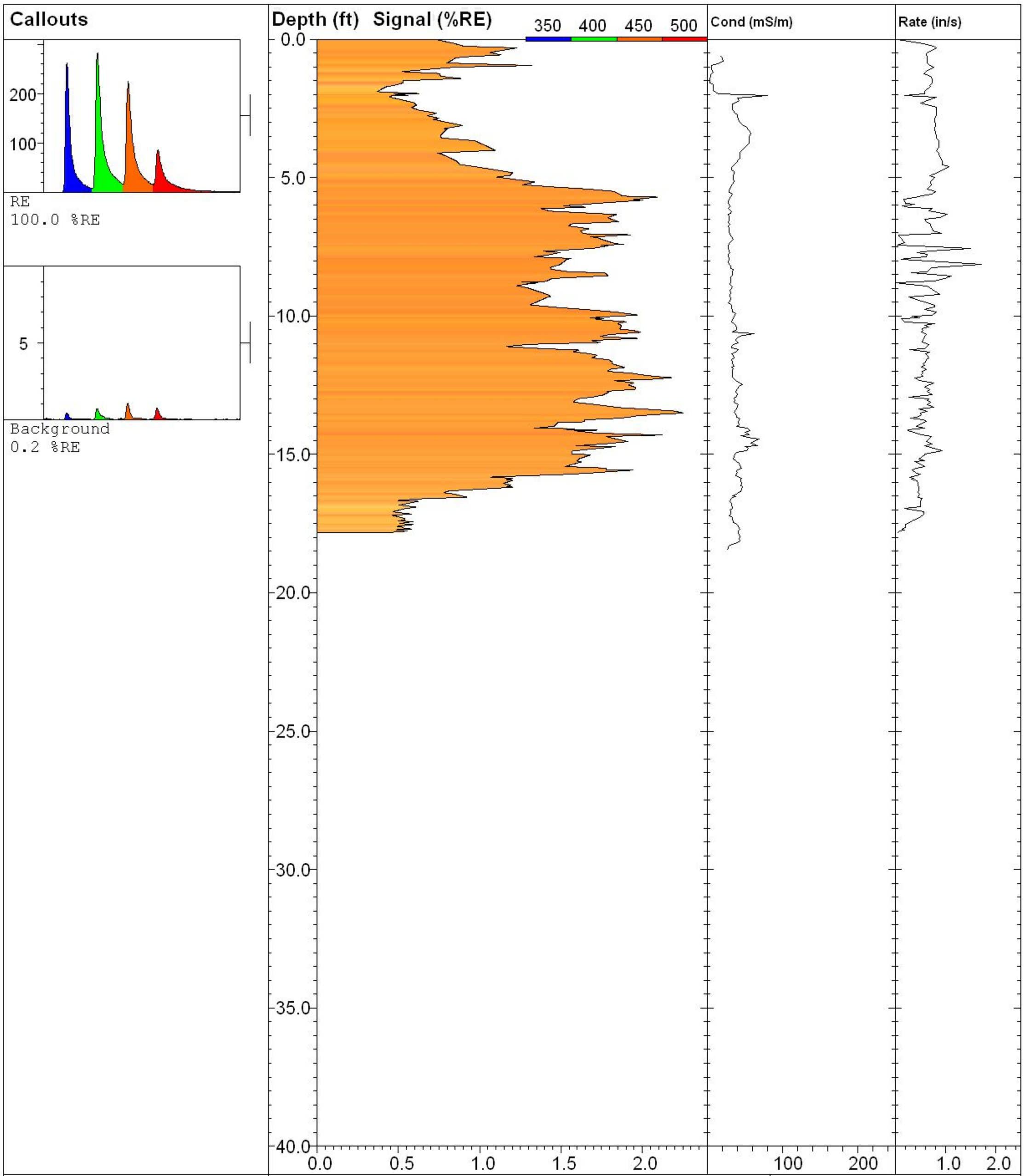


MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

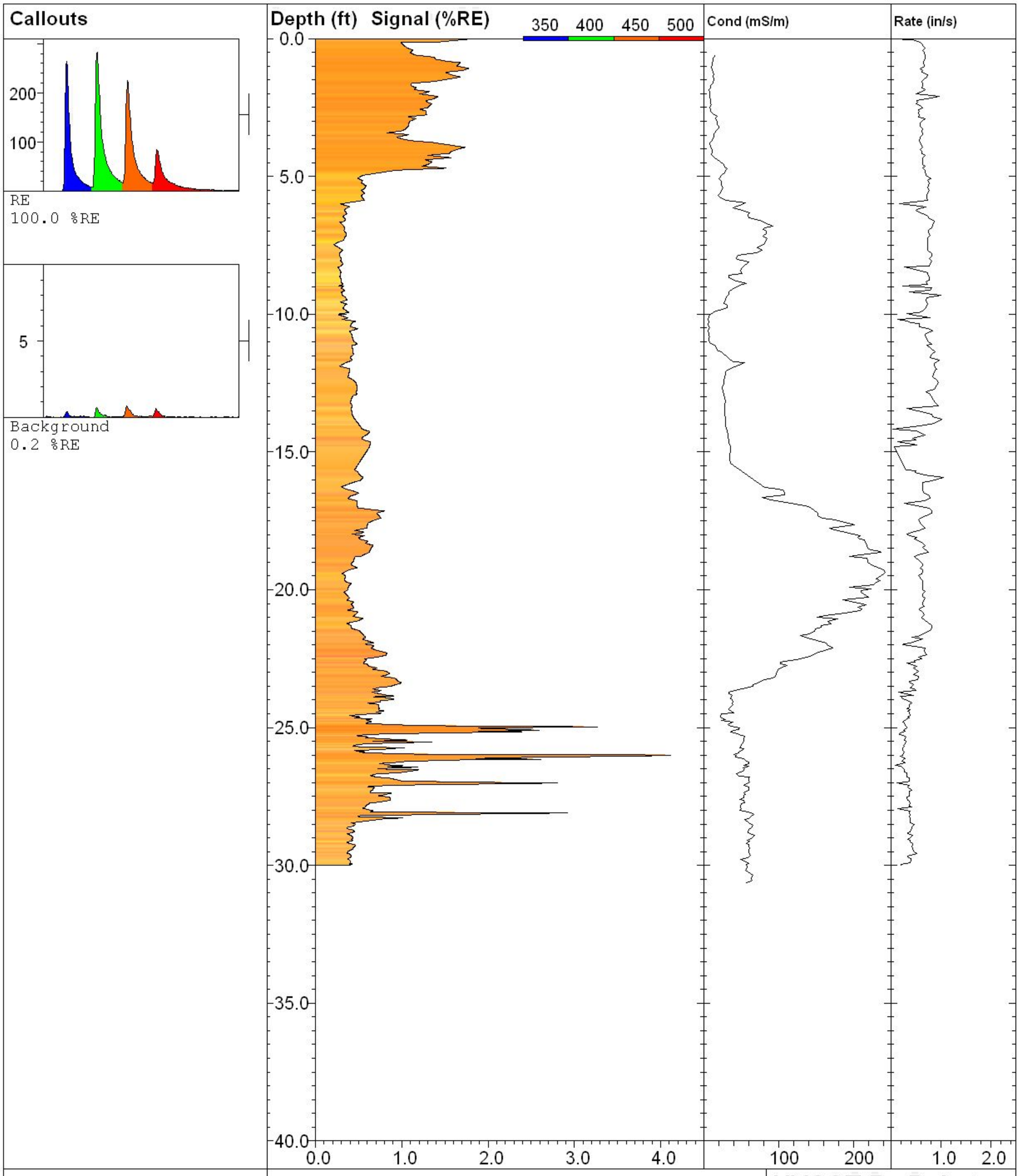
LIF-86-001

UVOST By Dakota
www.DakotaTechnologies.com

Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **26.40 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **2.4 % @ 0.58 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-14 09:19 CDT**



MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-86-002**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **17.81 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **2.3 % @ 13.51 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-14 10:00 CDT**

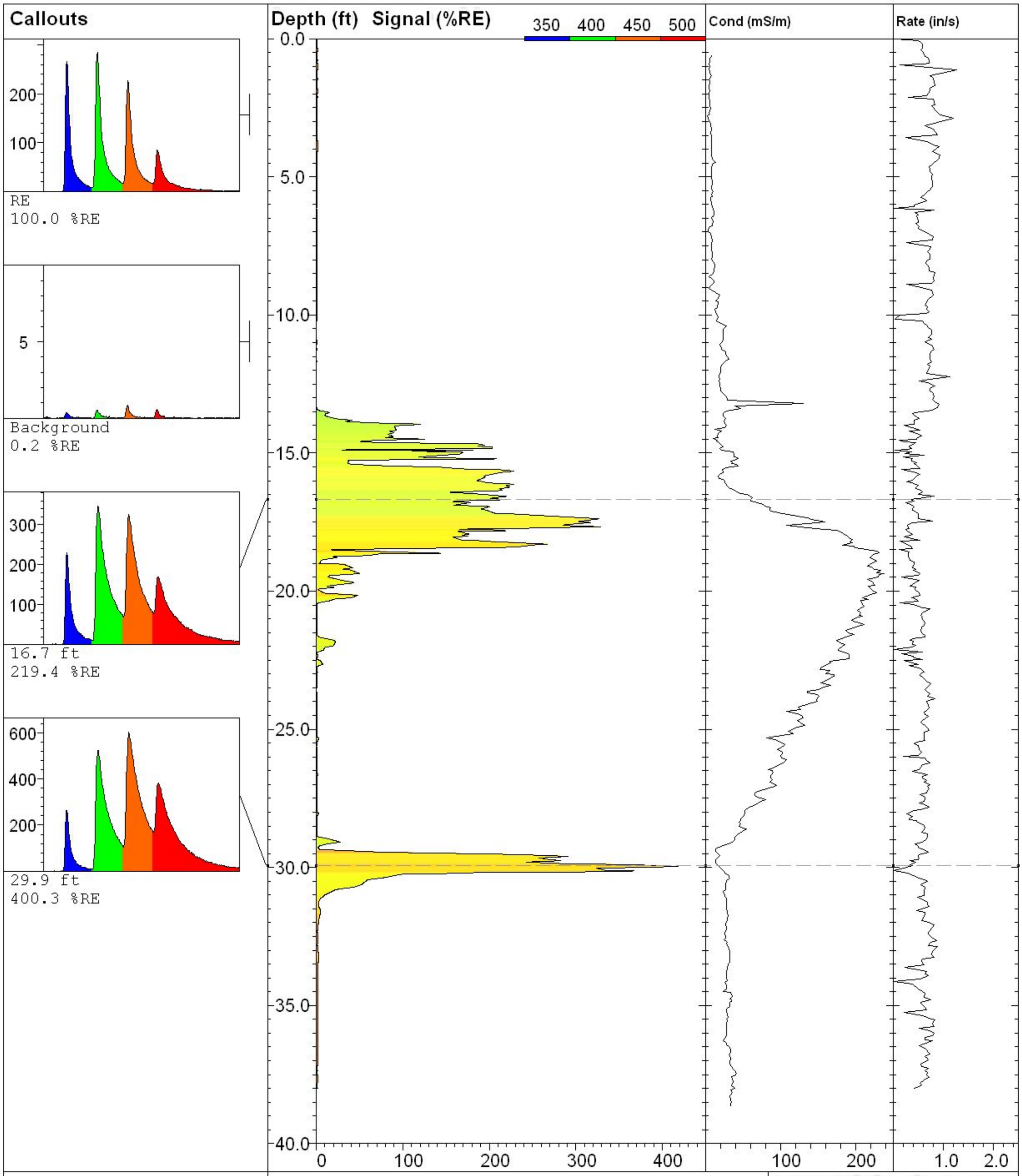


MATRIX ENVIRONMENTAL LLC
www.matrixenv.com

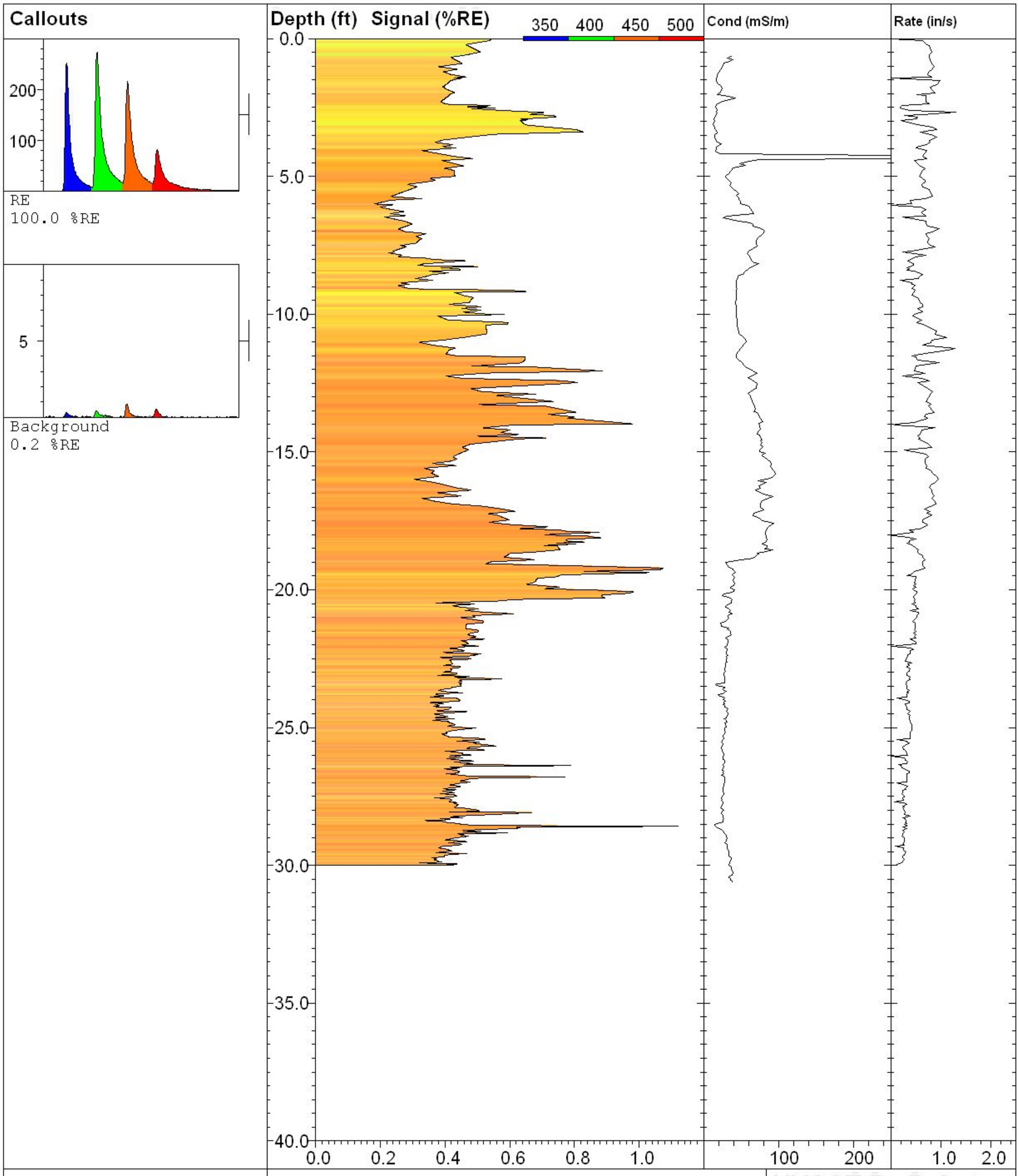
LIF-86-003

UVOST By Dakota
www.DakotaTechnologies.com

Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **4.2 % @ 26.00 ft**
Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-14 10:59 CDT**



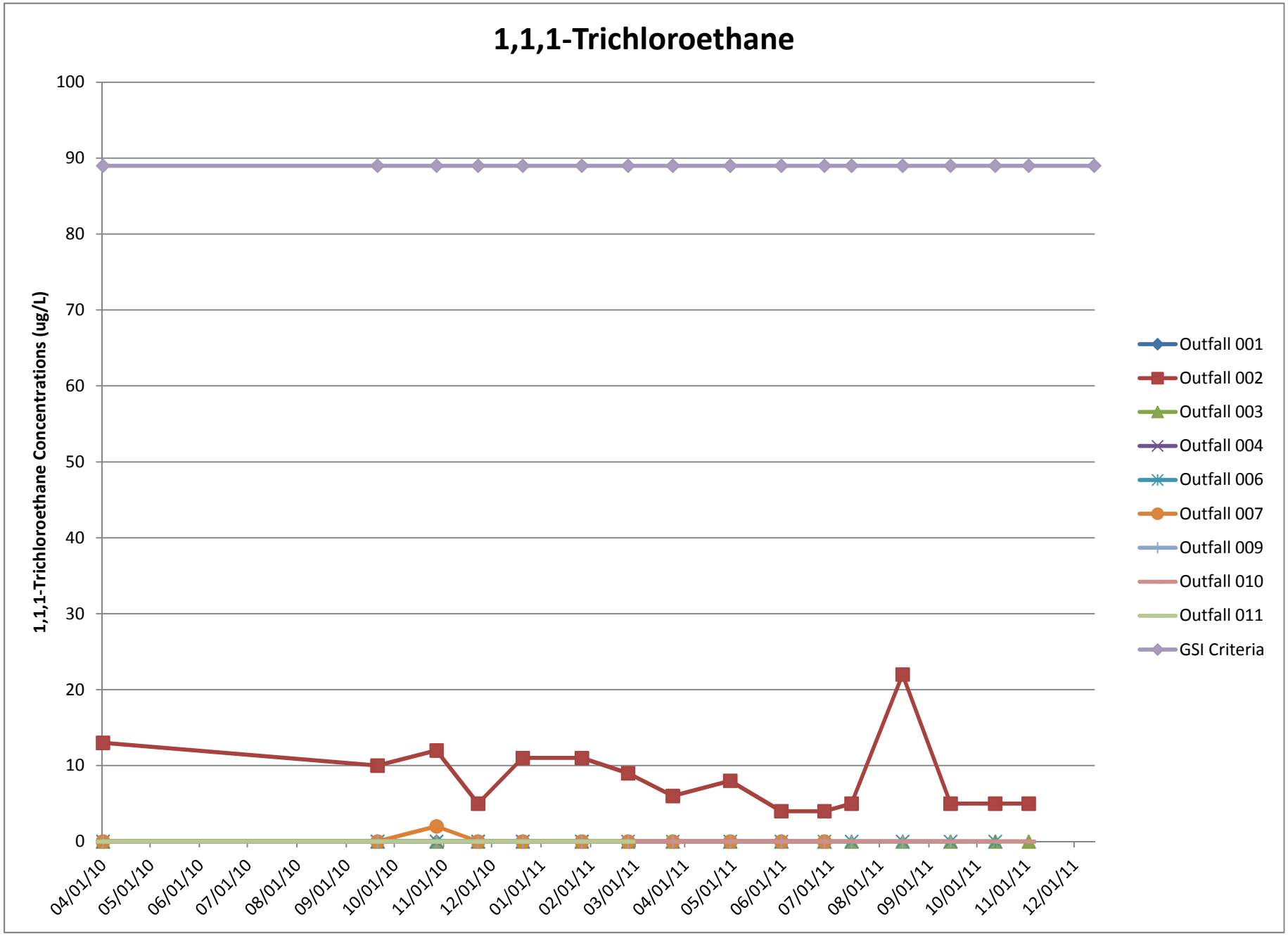
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-86-004**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **38.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **418.6 % @ 29.97 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-14 13:03 CDT**

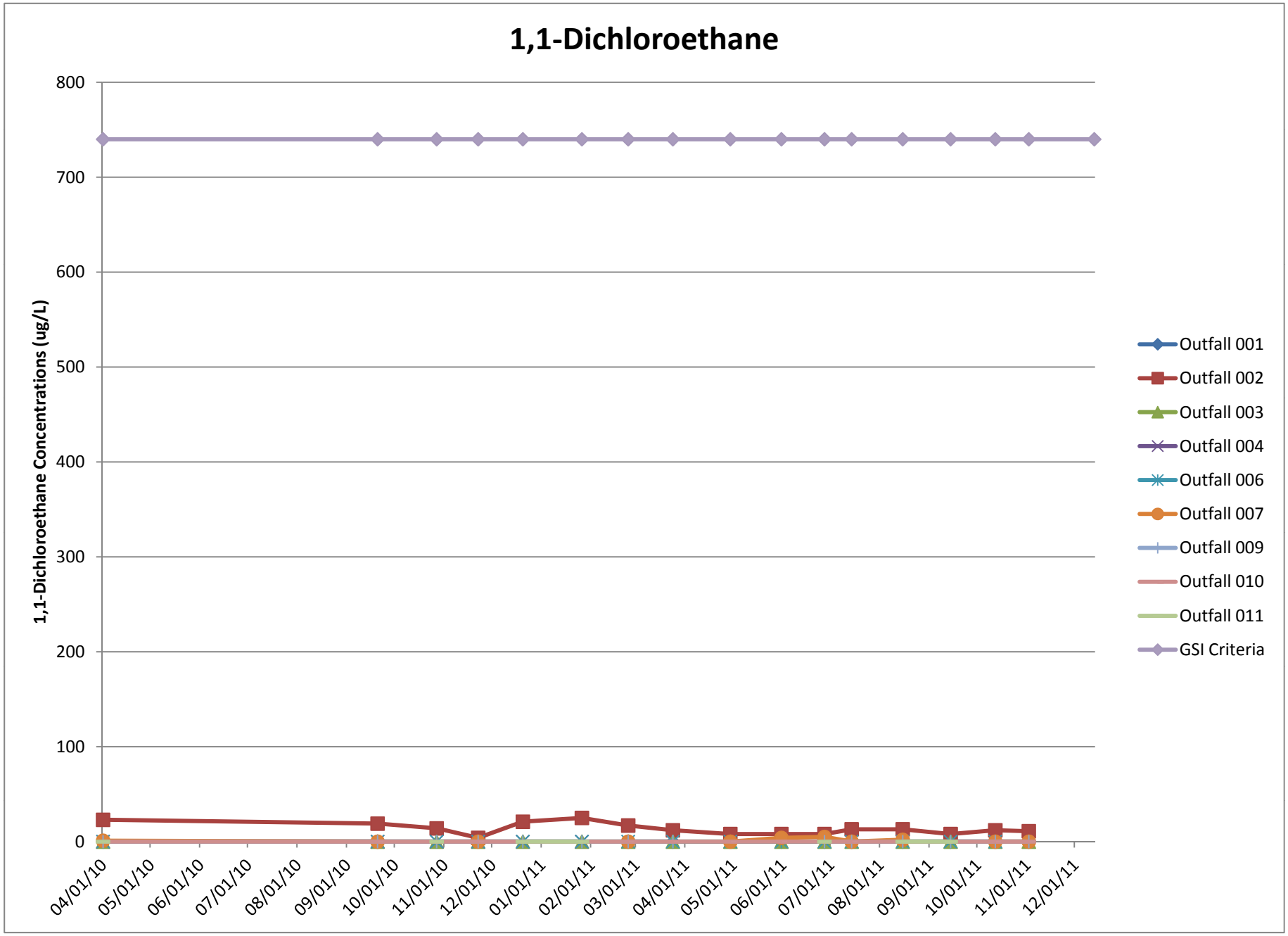


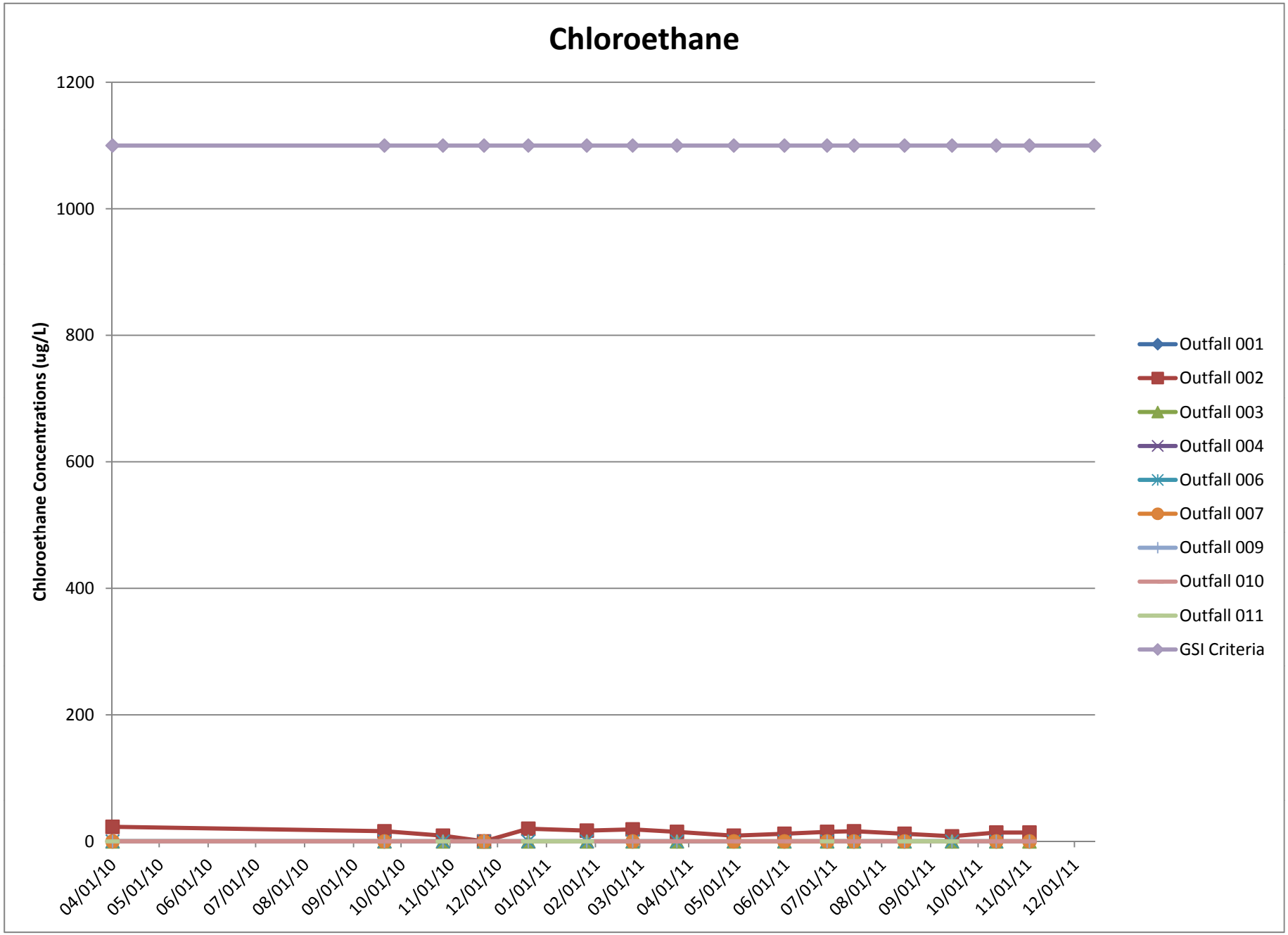
MATRIX ENVIRONMENTAL LLC www.matrixenv.com	**LIF-86-005**		**UVOST By Dakota** www.DakotaTechnologies.com
	Site: **Buick City**	*Latitude / Datum:* **Unavailable / NA**	*Final depth:* **30.00 ft**
	Client: **ARCADIS**	*Longitude / Fix:* **Unavailable / NA**	*Max signal:* **1.1 % @ 28.58 ft**
	Job: **135-MNDS-11UV**	*Operator/Unit:* **DT/UVOST1003**	*Date & Time:* **2011-10-14 15:26 CDT**

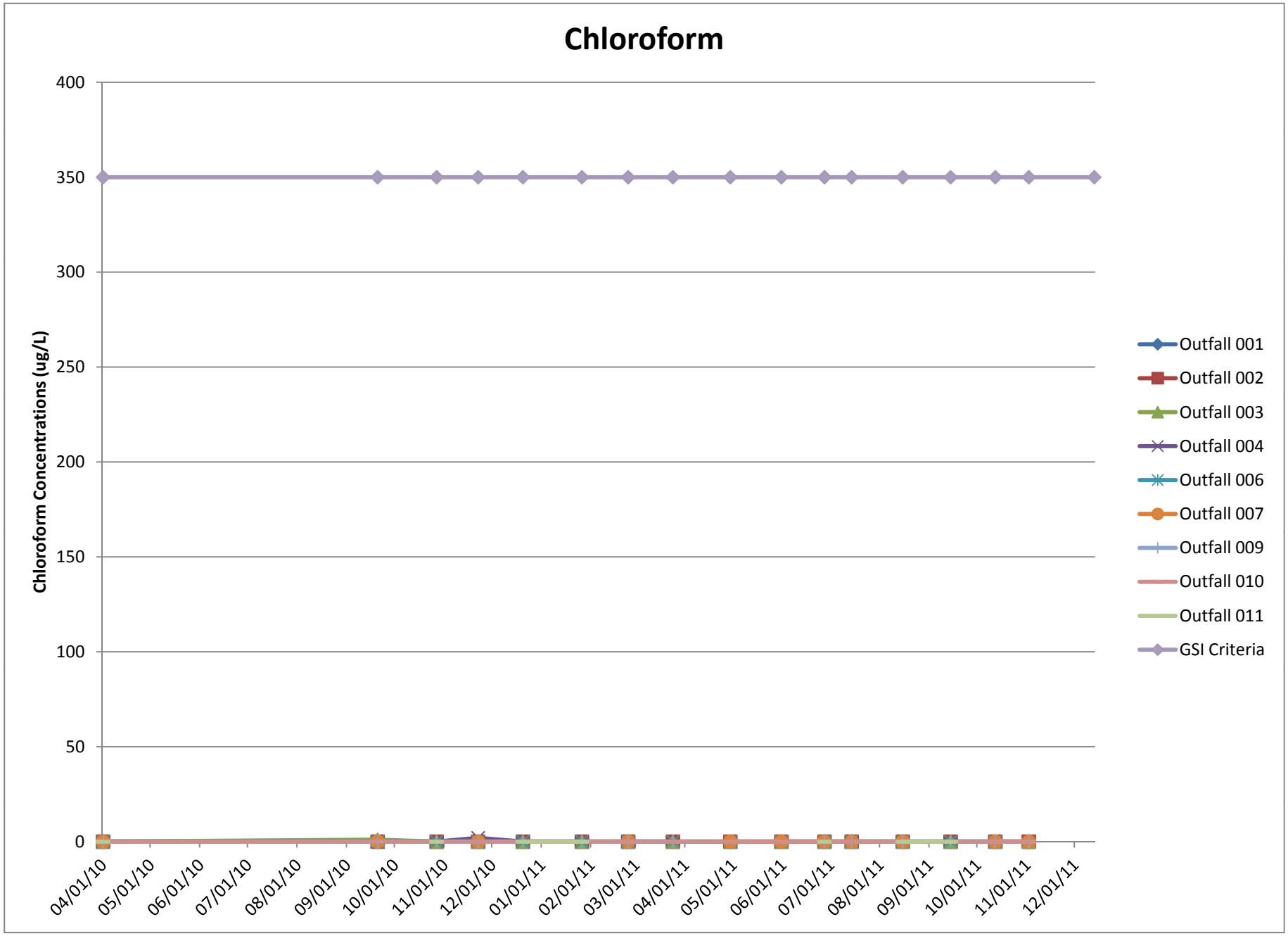
ARCADIS

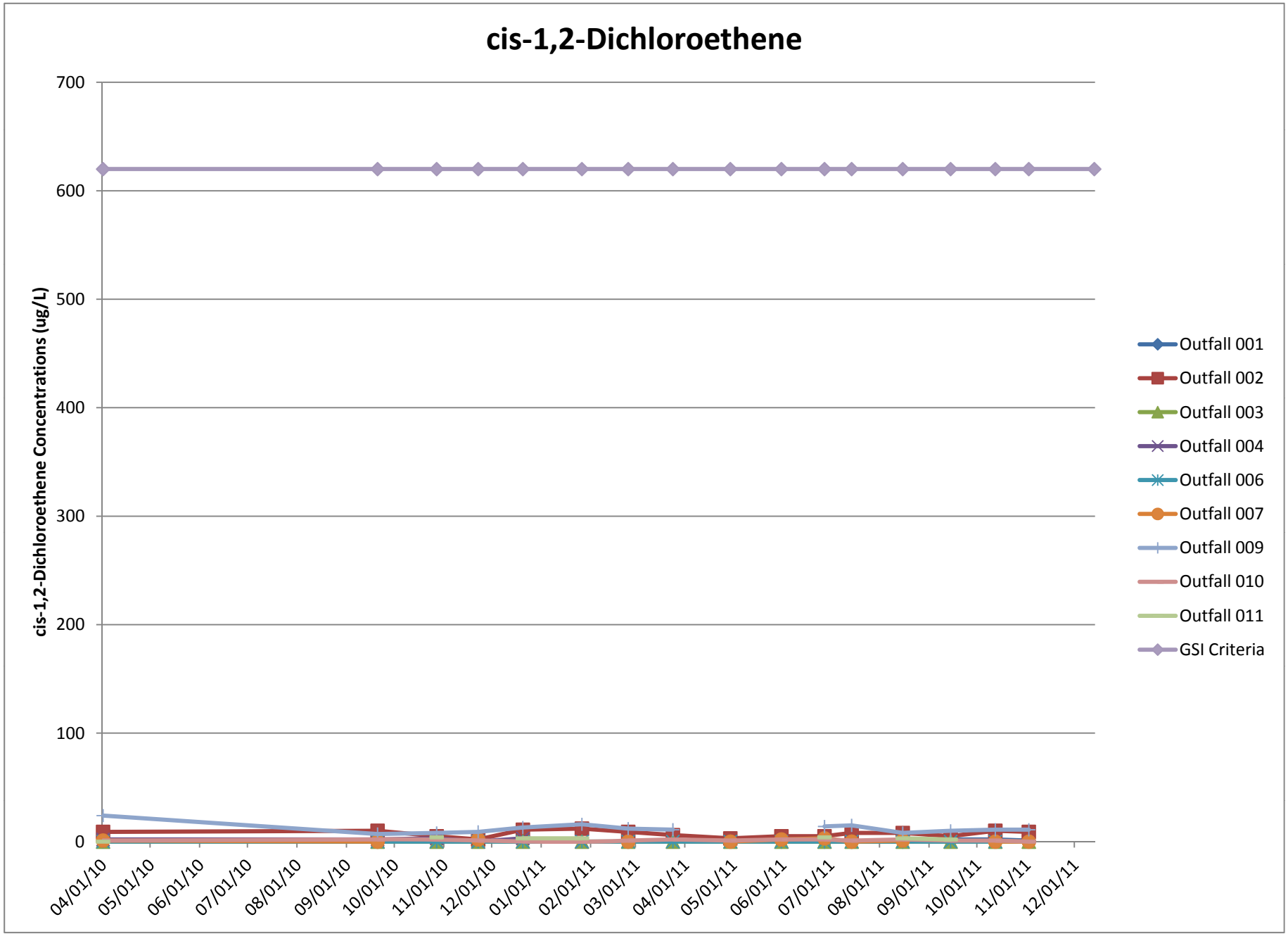
Appendix B

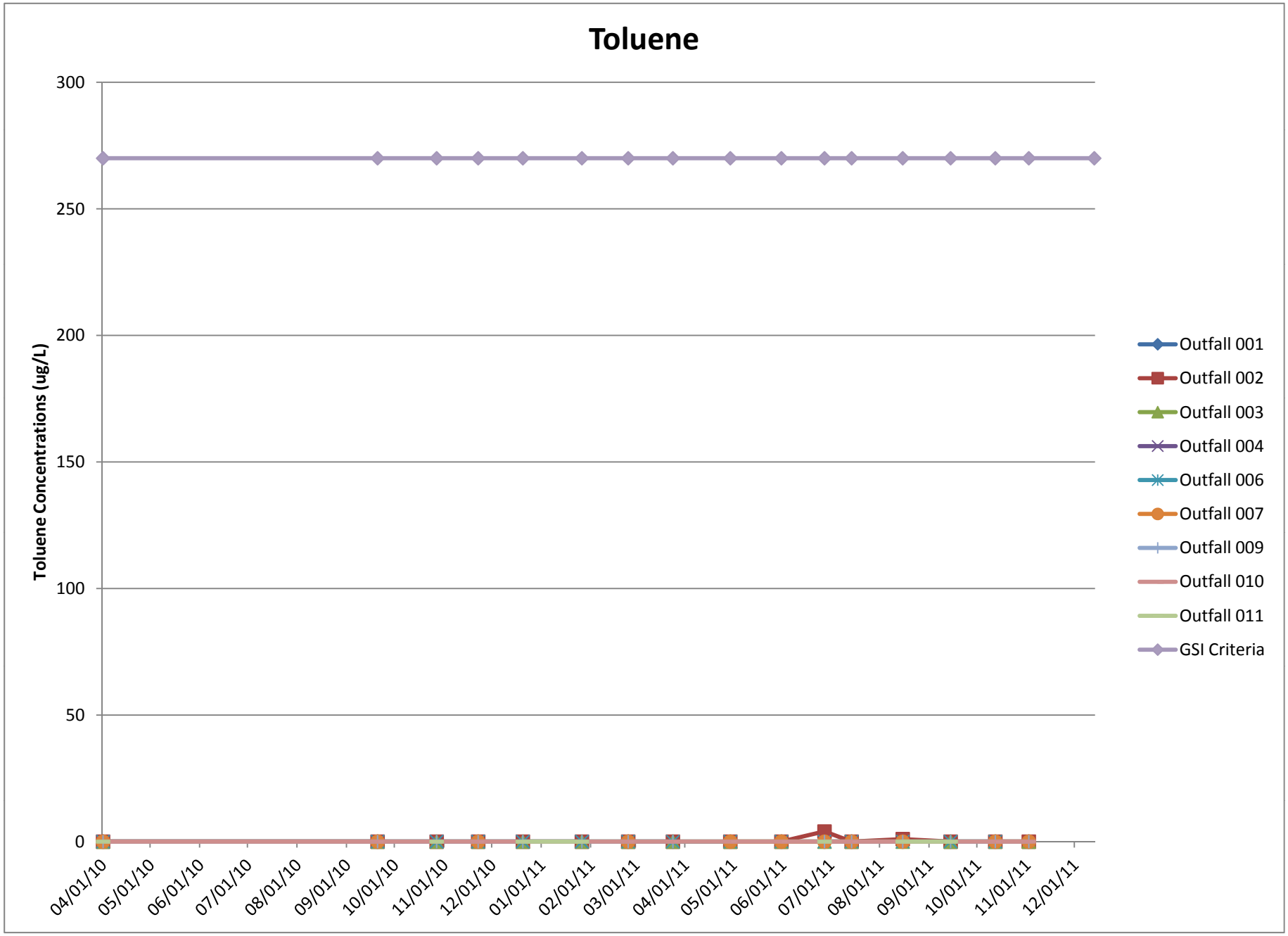

1,1,1-Trichloroethane
1,1,1-Trichloroethane Concentrations (ug/L)
100
90
80
70
60
50
40
30
20
10
0
04/01/10
05/01/10
06/01/10
07/01/10
08/01/10
09/01/10
10/01/10
11/01/10
12/01/10
01/01/11
02/01/11
03/01/11
04/01/11
05/01/11
06/01/11
07/01/11
08/01/11
09/01/11
10/01/11
11/01/11
12/01/11
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 006
Outfall 007
Outfall 009
Outfall 010
Outfall 011
GSI Criteria

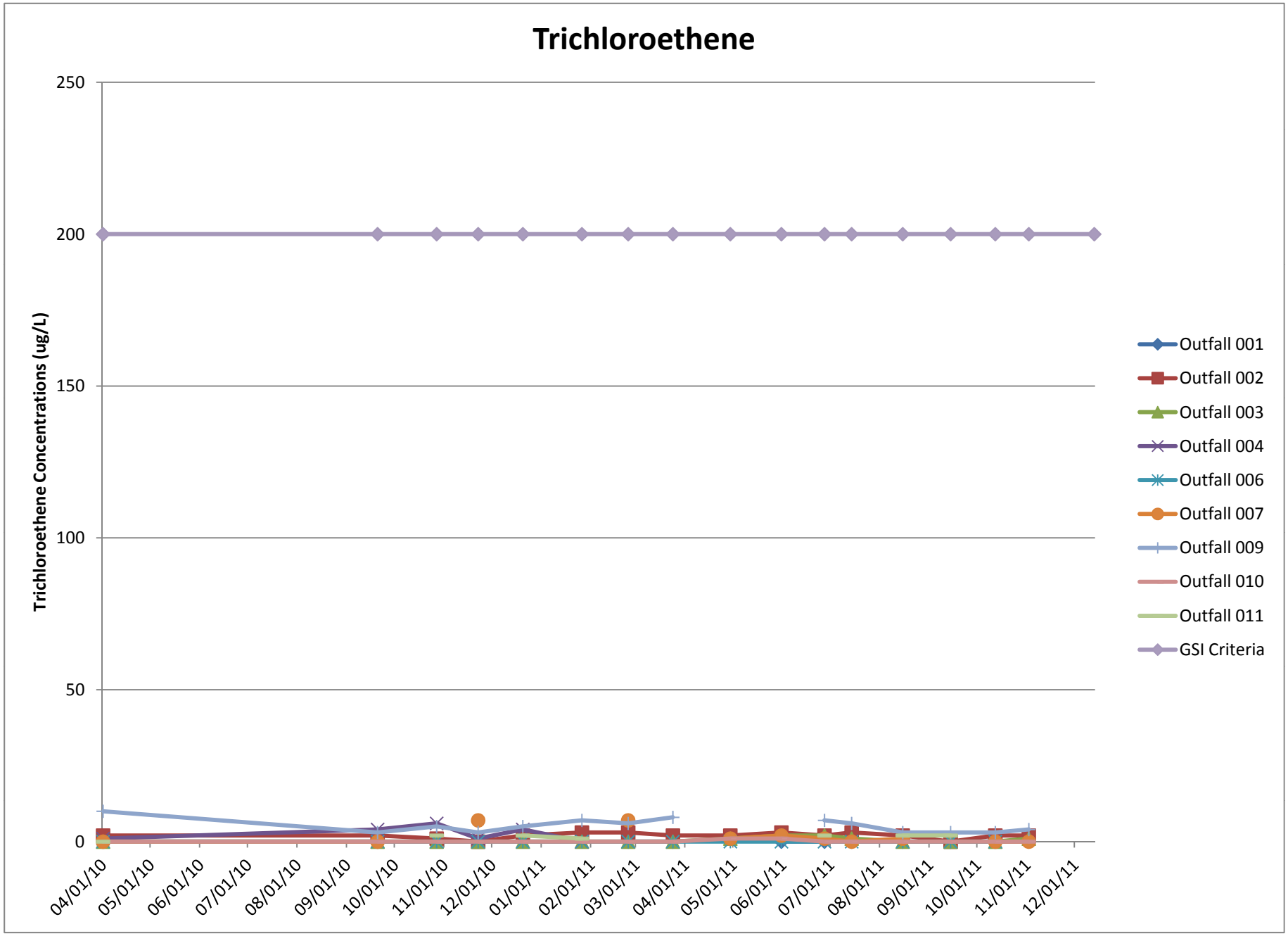

1,1-Dichloroethane
1,1-Dichloroethane Concentrations (ug/L)
800
700
600
500
400
300
200
100
0
04/01/10
05/01/10
06/01/10
07/01/10
08/01/10
09/01/10
10/01/10
11/01/10
12/01/10
01/01/11
02/01/11
03/01/11
04/01/11
05/01/11
06/01/11
07/01/11
08/01/11
09/01/11
10/01/11
11/01/11
12/01/11
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 006
Outfall 007
Outfall 009
Outfall 010
Outfall 011
GSI Criteria

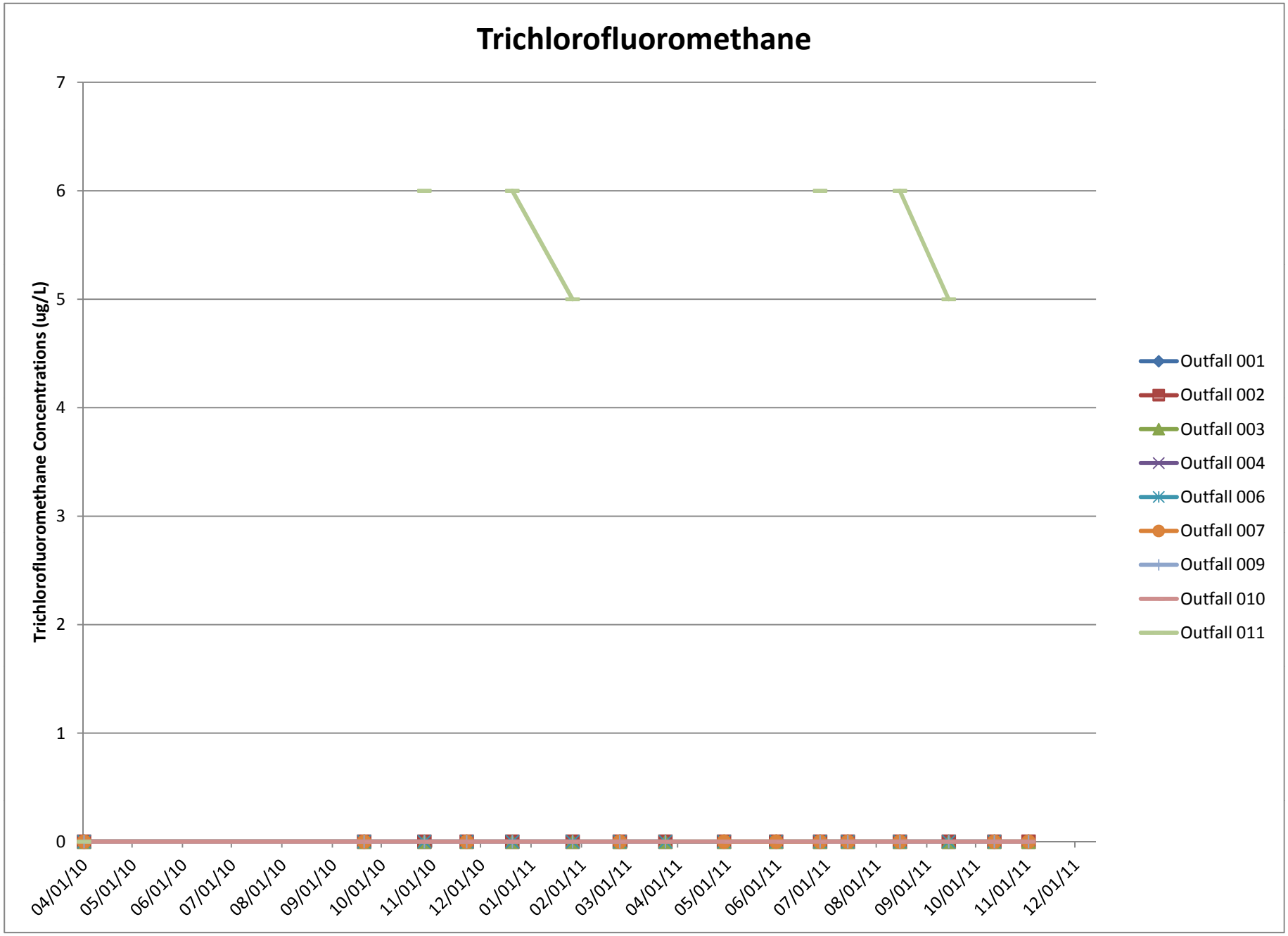

Chloroethane
Chloroethane Concentrations (ug/L)
1200
1000
800
600
400
200
0
04/01/10
05/01/10
06/01/10
07/01/10
08/01/10
09/01/10
10/01/10
11/01/10
12/01/10
01/01/11
02/01/11
03/01/11
04/01/11
05/01/11
06/01/11
07/01/11
08/01/11
09/01/11
10/01/11
11/01/11
12/01/11
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 006
Outfall 007
Outfall 009
Outfall 010
Outfall 011
GSI Criteria

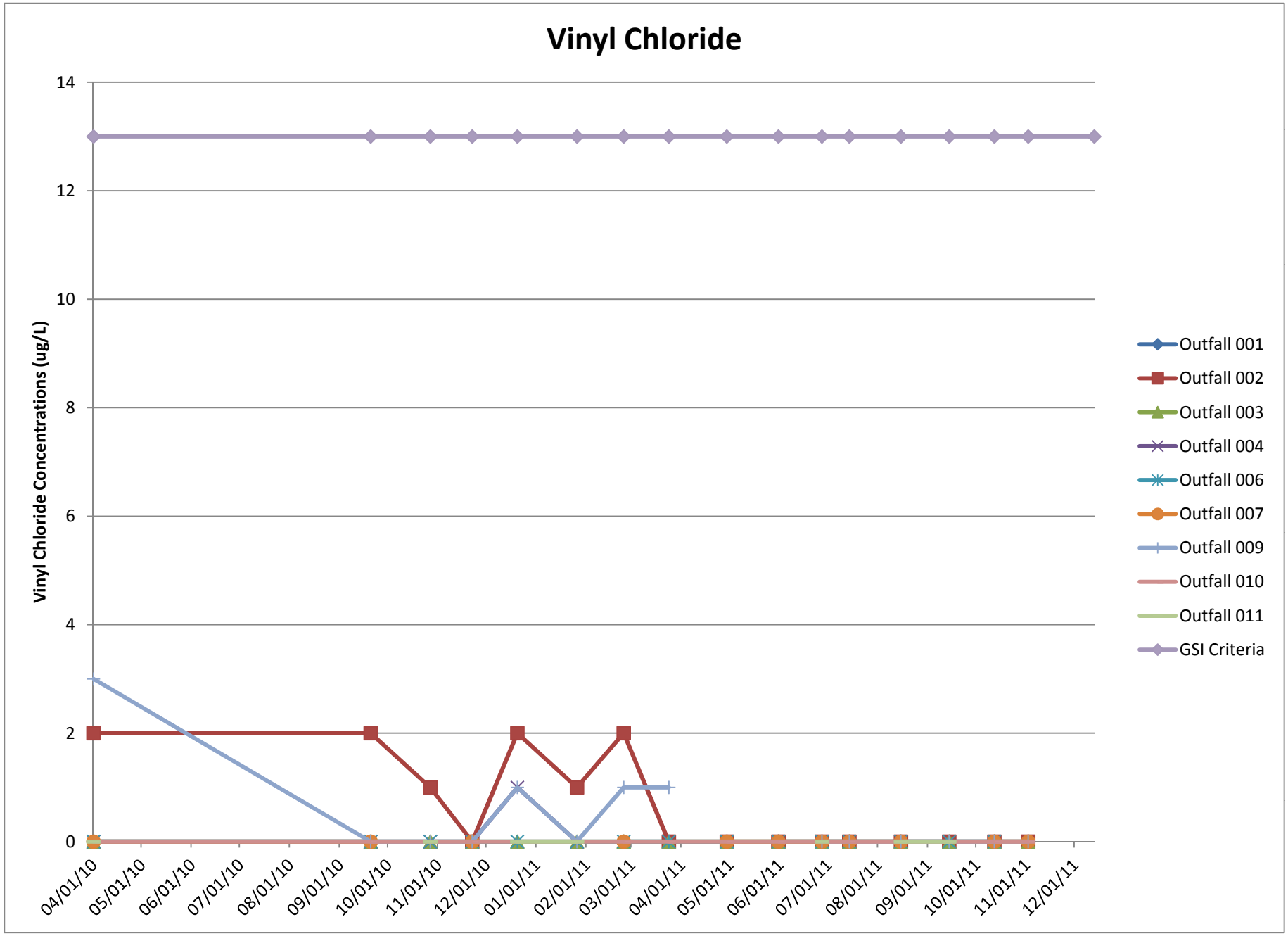

Chloroform
Chloroform Concentrations (ug/L)
400
350
300
250
200
150
100
50
0
04/01/10
05/01/10
06/01/10
07/01/10
08/01/10
09/01/10
10/01/10
11/01/10
12/01/10
01/01/11
02/01/11
03/01/11
04/01/11
05/01/11
06/01/11
07/01/11
08/01/11
09/01/11
10/01/11
11/01/11
12/01/11
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 006
Outfall 007
Outfall 009
Outfall 010
Outfall 011
GSI Criteria

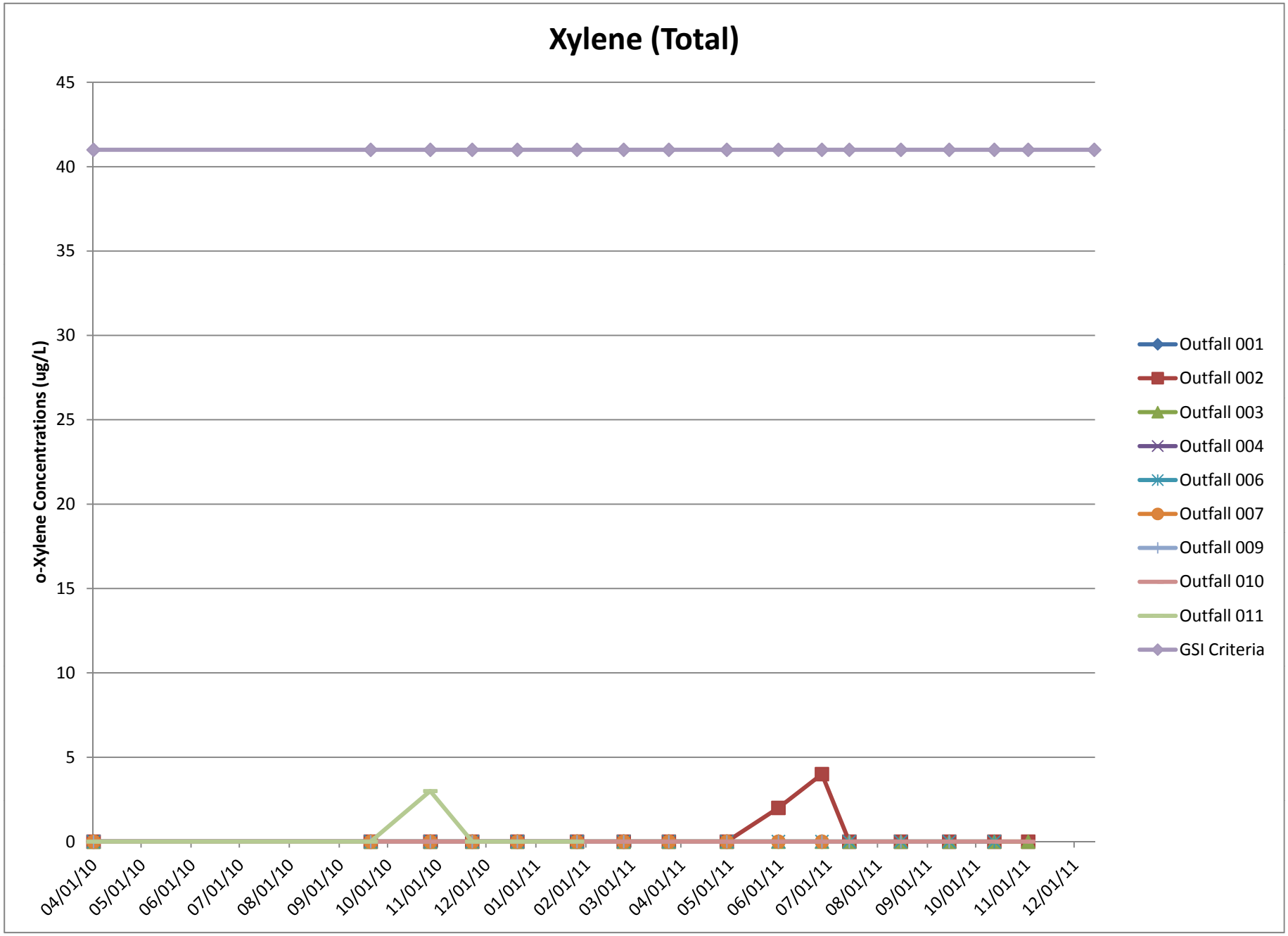

cis-1,2-Dichloroethene
cis-1,2-Dichloroethene Concentrations (ug/L)
700
600
500
400
300
200
100
0
04/01/10
05/01/10
06/01/10
07/01/10
08/01/10
09/01/10
10/01/10
11/01/10
12/01/10
01/01/11
02/01/11
03/01/11
04/01/11
05/01/11
06/01/11
07/01/11
08/01/11
09/01/11
10/01/11
11/01/11
12/01/11
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 006
Outfall 007
Outfall 009
Outfall 010
Outfall 011
GSI Criteria

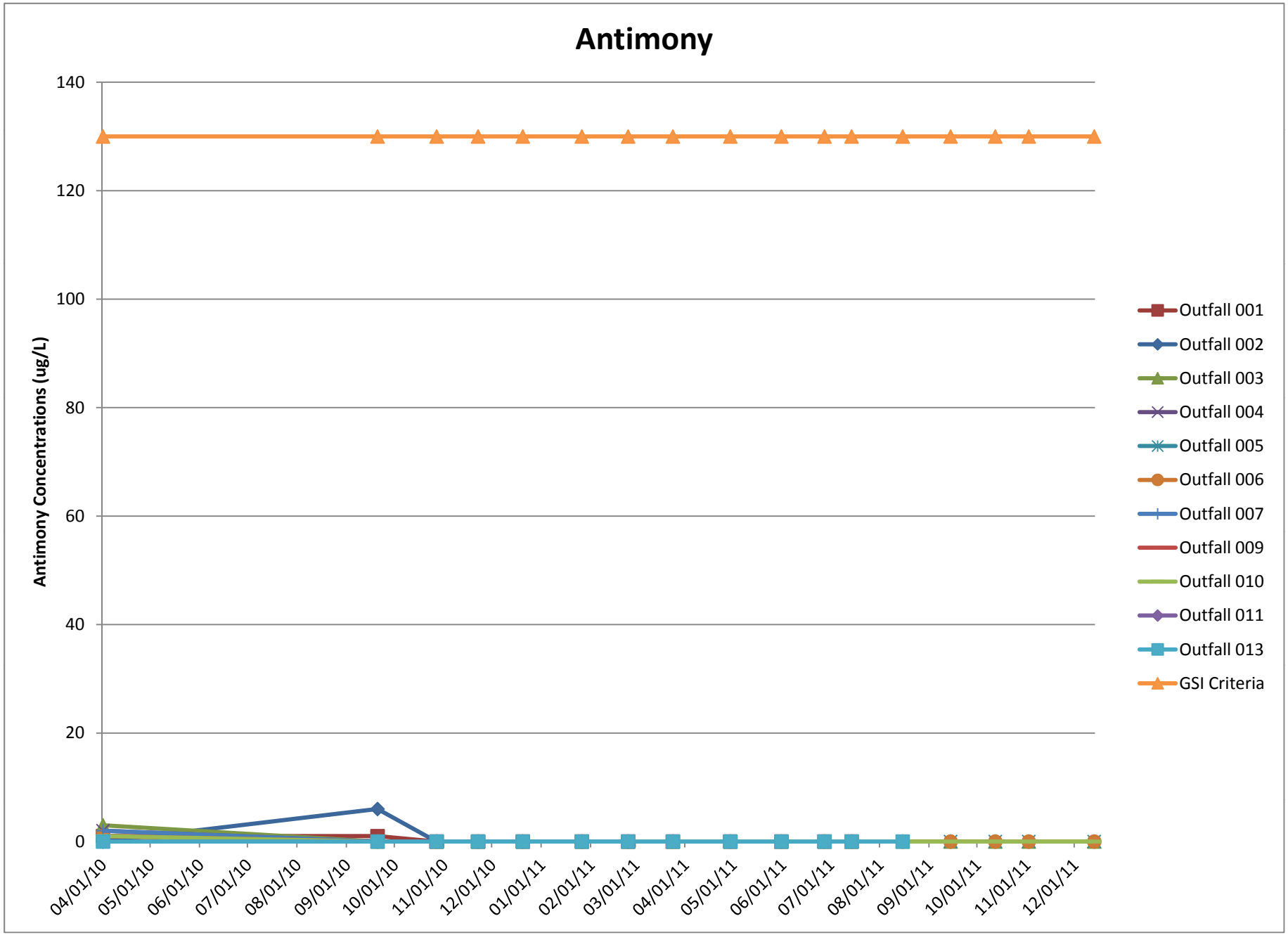

Toluene
Toluene Concentrations (ug/L)
300
250
200
150
100
50
0
04/01/10
05/01/10
06/01/10
07/01/10
08/01/10
09/01/10
10/01/10
11/01/10
12/01/10
01/01/11
02/01/11
03/01/11
04/01/11
05/01/11
06/01/11
07/01/11
08/01/11
09/01/11
10/01/11
11/01/11
12/01/11
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 006
Outfall 007
Outfall 009
Outfall 010
Outfall 011
GSI Criteria

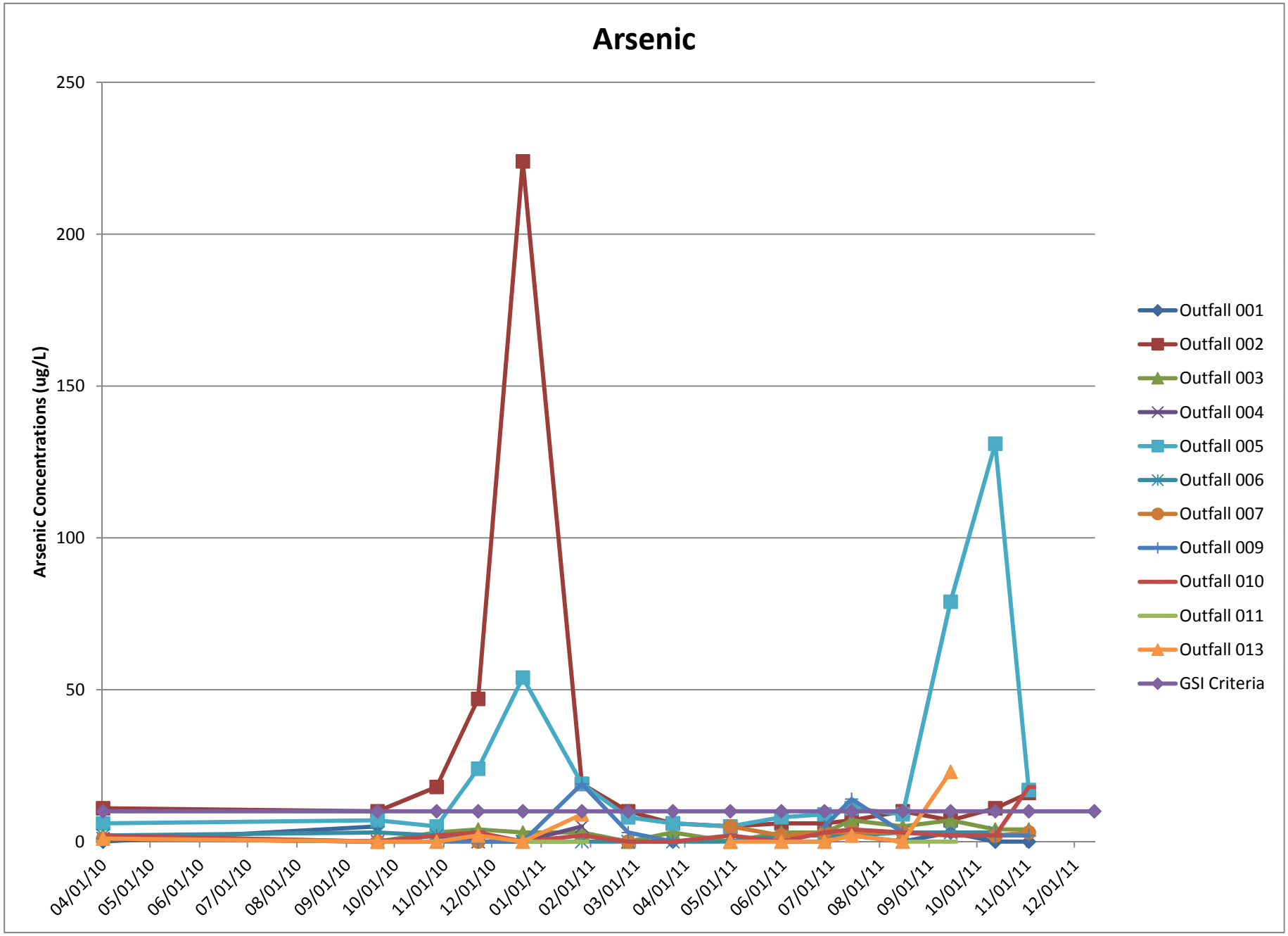

Trichloroethene
Trichloroethene Concentrations (ug/L)
250
200
150
100
50
0
04/01/10
05/01/10
06/01/10
07/01/10
08/01/10
09/01/10
10/01/10
11/01/10
12/01/10
01/01/11
02/01/11
03/01/11
04/01/11
05/01/11
06/01/11
07/01/11
08/01/11
09/01/11
10/01/11
11/01/11
12/01/11
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 006
Outfall 007
Outfall 009
Outfall 010
Outfall 011
GSI Criteria

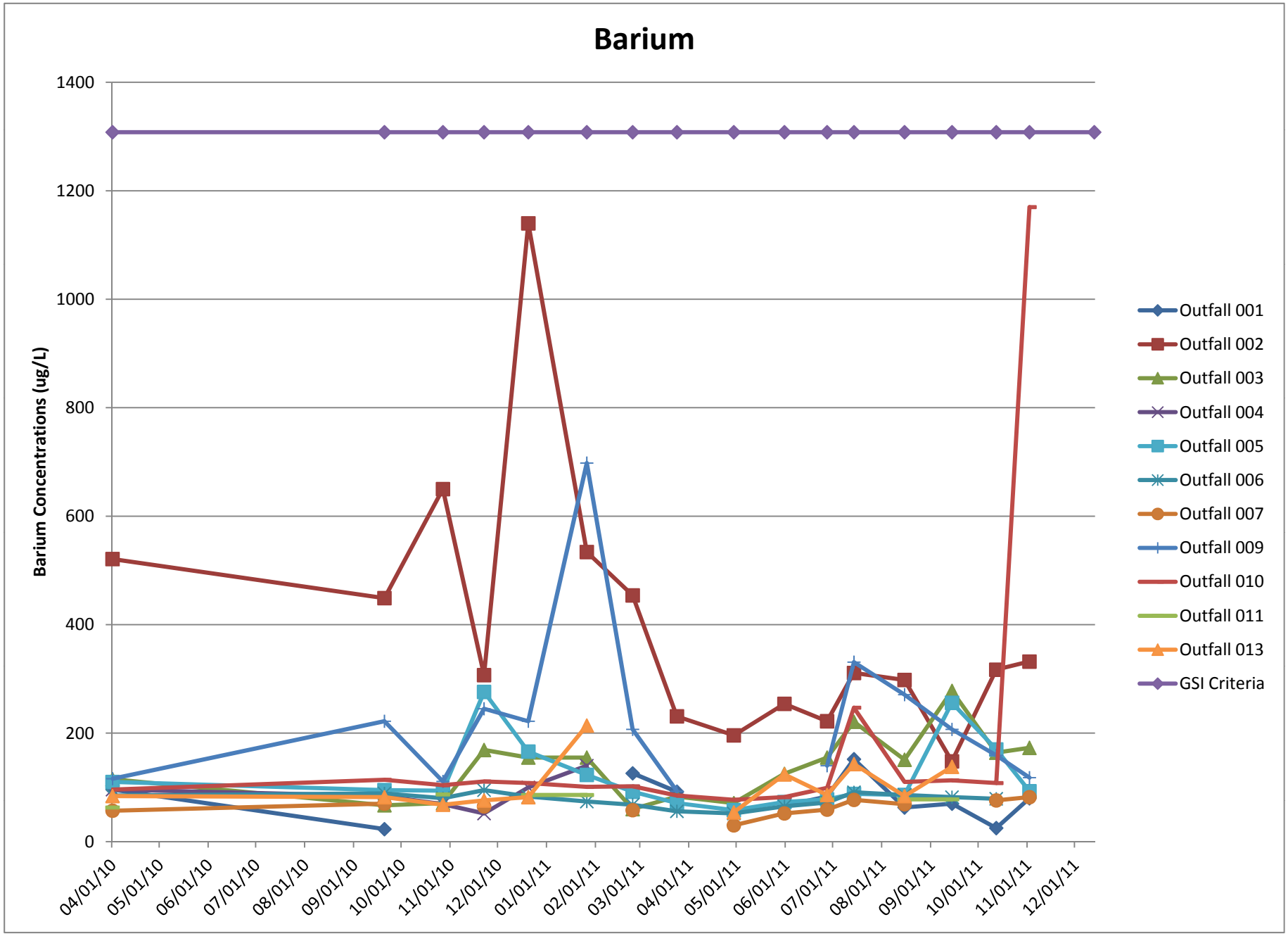

Trichlorofluoromethane
Trichlorofluoromethane Concentrations (ug/L)
7
6
5
4
3
2
1
0
04/01/10
05/01/10
06/01/10
07/01/10
08/01/10
09/01/10
10/01/10
11/01/10
12/01/10
01/01/11
02/01/11
03/01/11
04/01/11
05/01/11
06/01/11
07/01/11
08/01/11
09/01/11
10/01/11
11/01/11
12/01/11
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 006
Outfall 007
Outfall 009
Outfall 010
Outfall 011

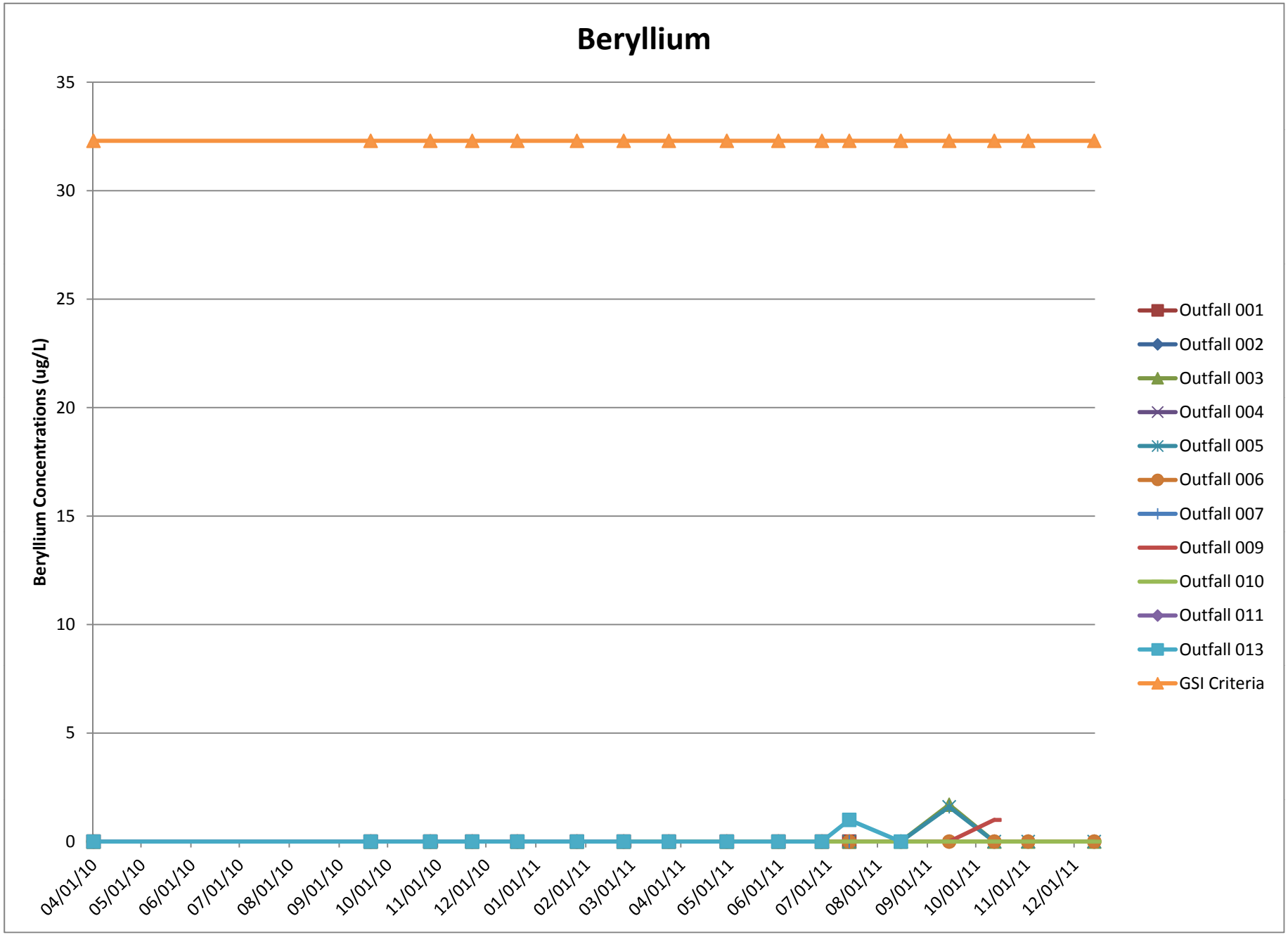

Vinyl Chloride
Vinyl Chloride Concentrations (ug/L)
14
12
10
8
6
4
2
0
04/01/10
05/01/10
06/01/10
07/01/10
08/01/10
09/01/10
10/01/10
11/01/10
12/01/10
01/01/11
02/01/11
03/01/11
04/01/11
05/01/11
06/01/11
07/01/11
08/01/11
09/01/11
10/01/11
11/01/11
12/01/11
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 006
Outfall 007
Outfall 009
Outfall 010
Outfall 011
GSI Criteria

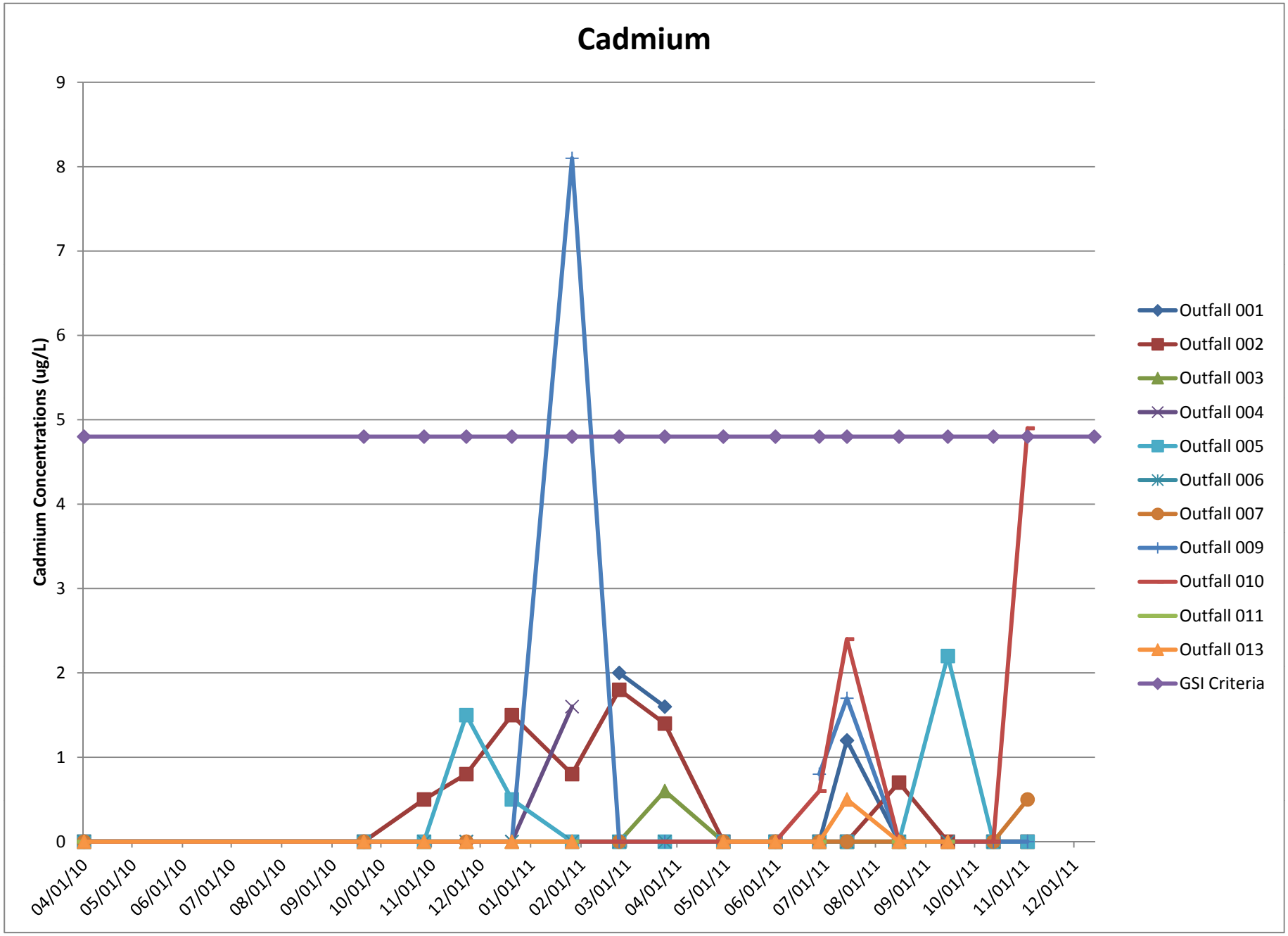

Xylene (Total)
o-Xylene Concentrations (ug/L)
45
40
35
30
25
20
15
10
5
0
04/01/10
05/01/10
06/01/10
07/01/10
08/01/10
09/01/10
10/01/10
11/01/10
12/01/10
01/01/11
02/01/11
03/01/11
04/01/11
05/01/11
06/01/11
07/01/11
08/01/11
09/01/11
10/01/11
11/01/11
12/01/11
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 006
Outfall 007
Outfall 009
Outfall 010
Outfall 011
GSI Criteria

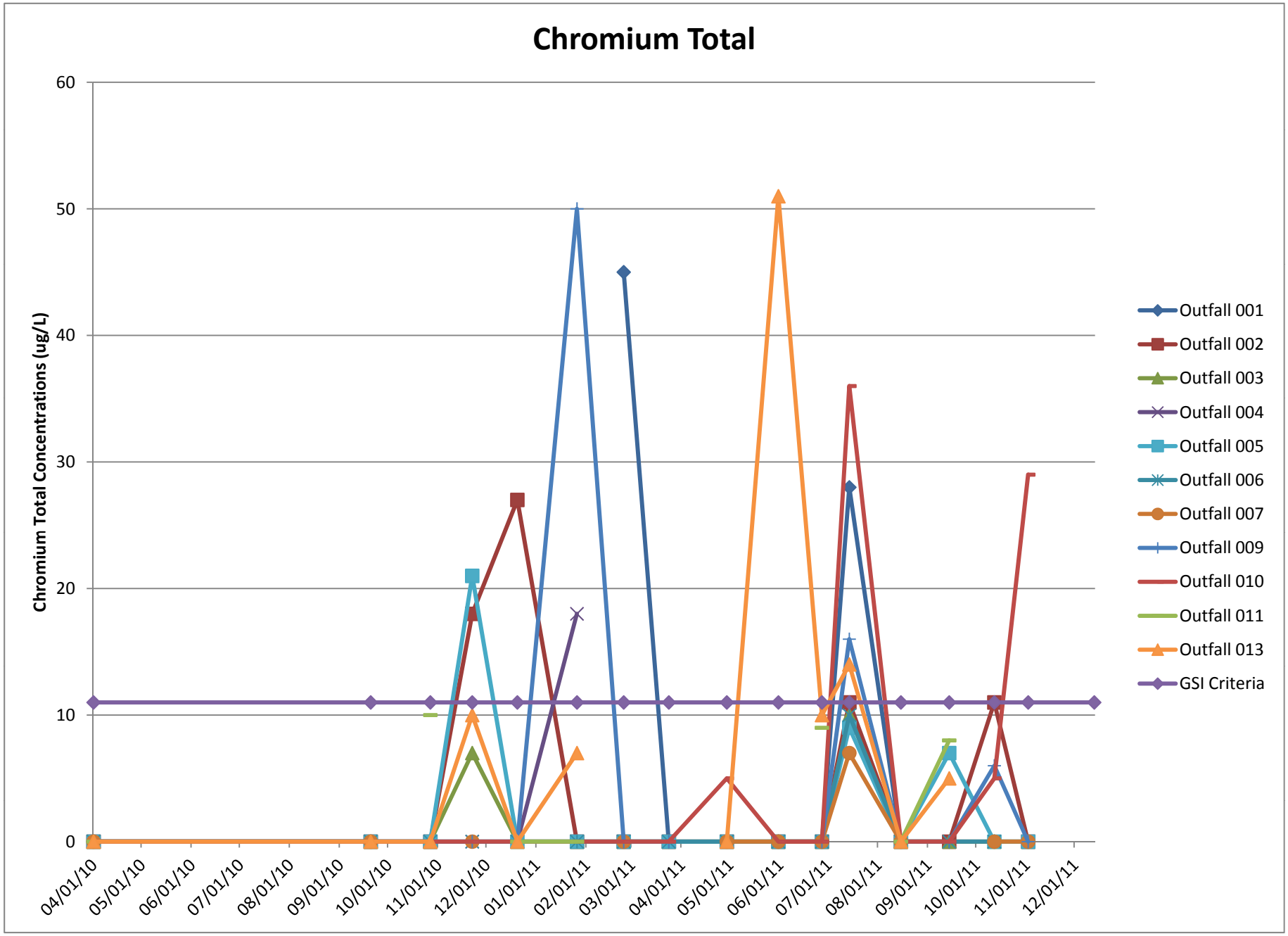

Antimony
Antimony Concentrations (ug/L)
140
120
100
80
60
40
20
0
04/01/10
05/01/10
06/01/10
07/01/10
08/01/10
09/01/10
10/01/10
11/01/10
12/01/10
01/01/11
02/01/11
03/01/11
04/01/11
05/01/11
06/01/11
07/01/11
08/01/11
09/01/11
10/01/11
11/01/11
12/01/11
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 005
Outfall 006
Outfall 007
Outfall 009
Outfall 010
Outfall 011
Outfall 013
GSI Criteria

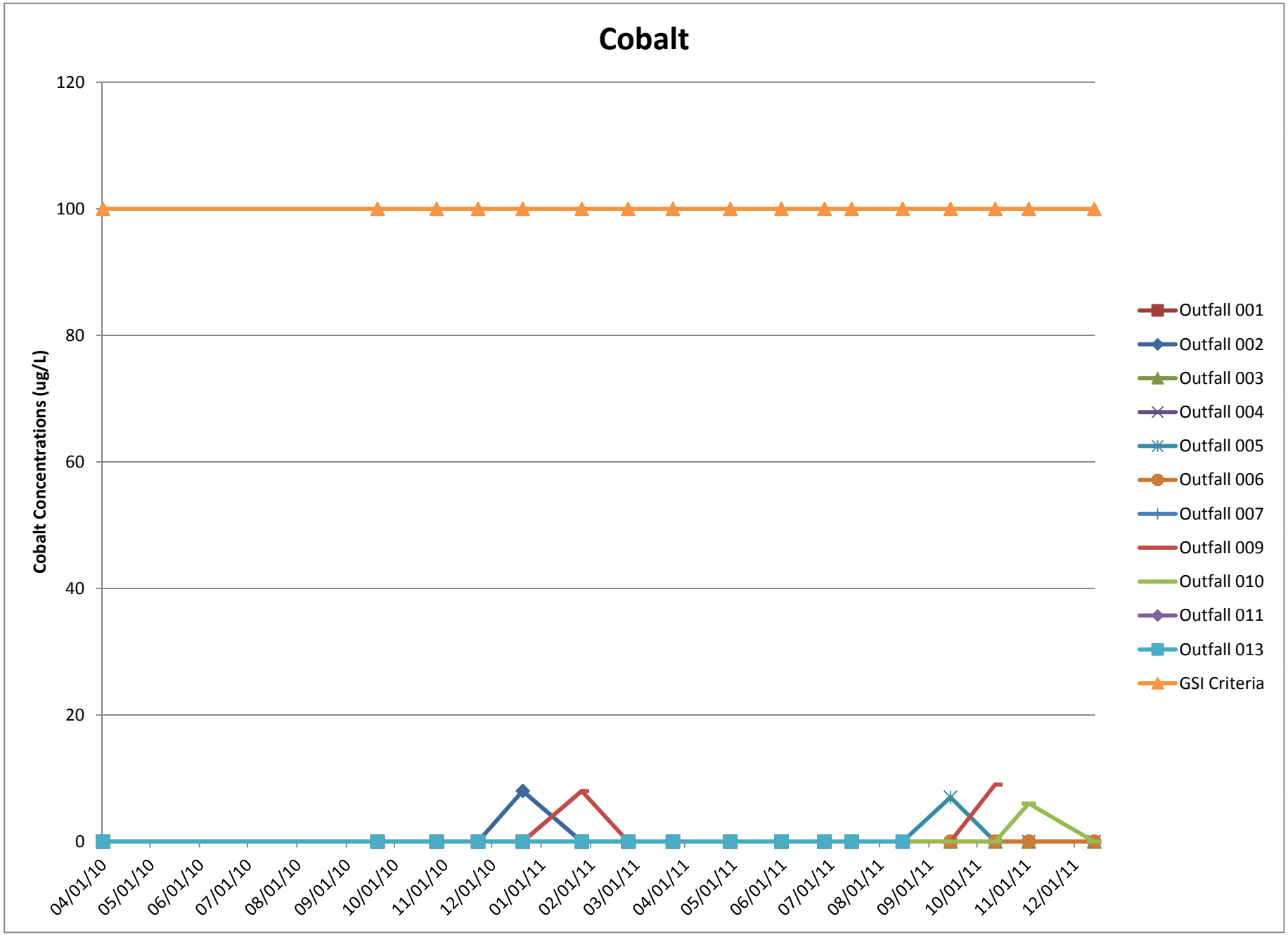

Arsenic
Arsenic Concentrations (ug/L)
250
200
150
100
50
0
04/01/10
05/01/10
06/01/10
07/01/10
08/01/10
09/01/10
10/01/10
11/01/10
12/01/10
01/01/11
02/01/11
03/01/11
04/01/11
05/01/11
06/01/11
07/01/11
08/01/11
09/01/11
10/01/11
11/01/11
12/01/11
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 005
Outfall 006
Outfall 007
Outfall 009
Outfall 010
Outfall 011
Outfall 013
GSI Criteria

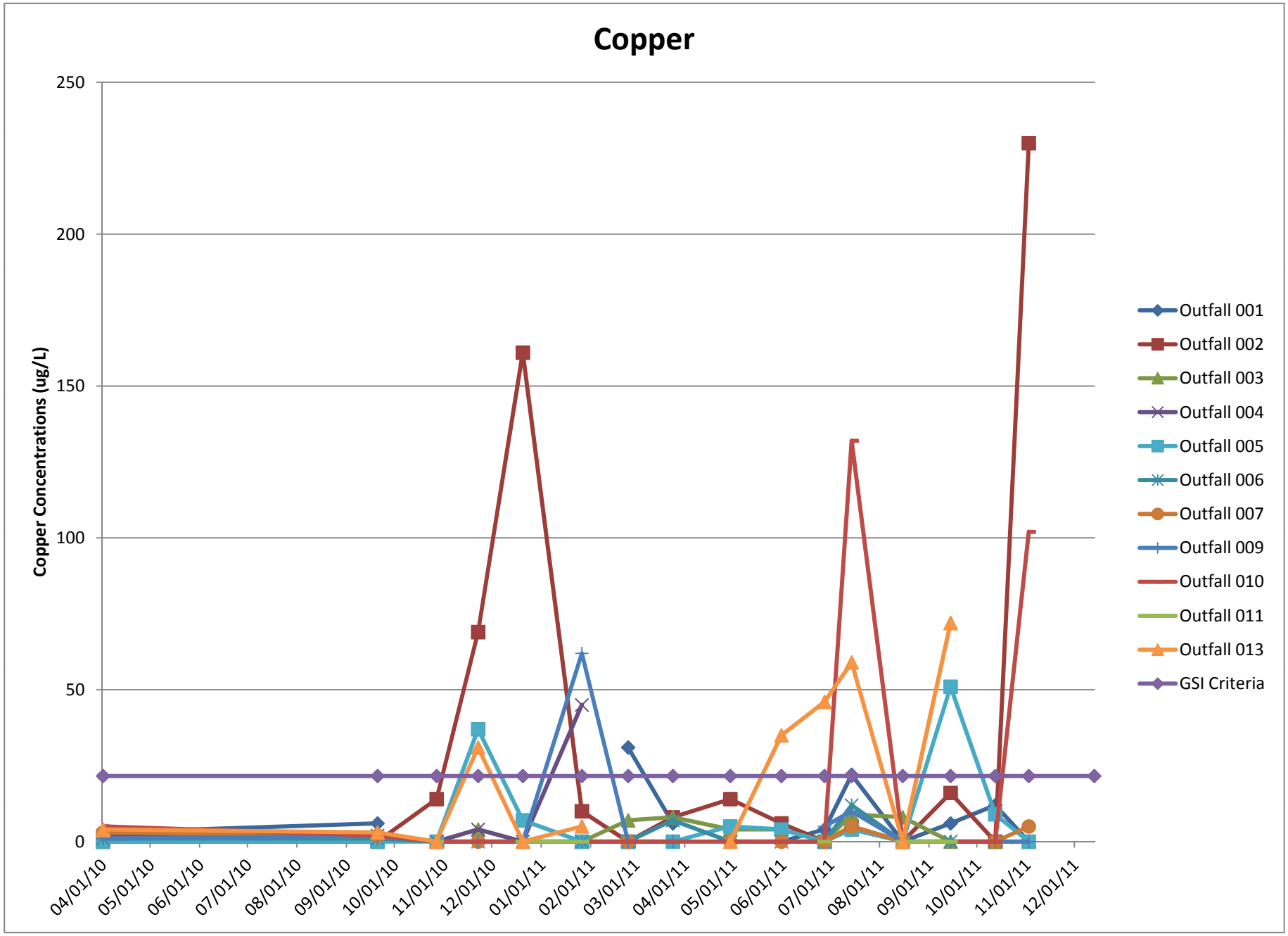

Barium
Barium Concentrations (ug/L)
1400
1200
1000
800
600
400
200
0
04/01/10
05/01/10
06/01/10
07/01/10
08/01/10
09/01/10
10/01/10
11/01/10
12/01/10
01/01/11
02/01/11
03/01/11
04/01/11
05/01/11
06/01/11
07/01/11
08/01/11
09/01/11
10/01/11
11/01/11
12/01/11
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 005
Outfall 006
Outfall 007
Outfall 009
Outfall 010
Outfall 011
Outfall 013
GSI Criteria

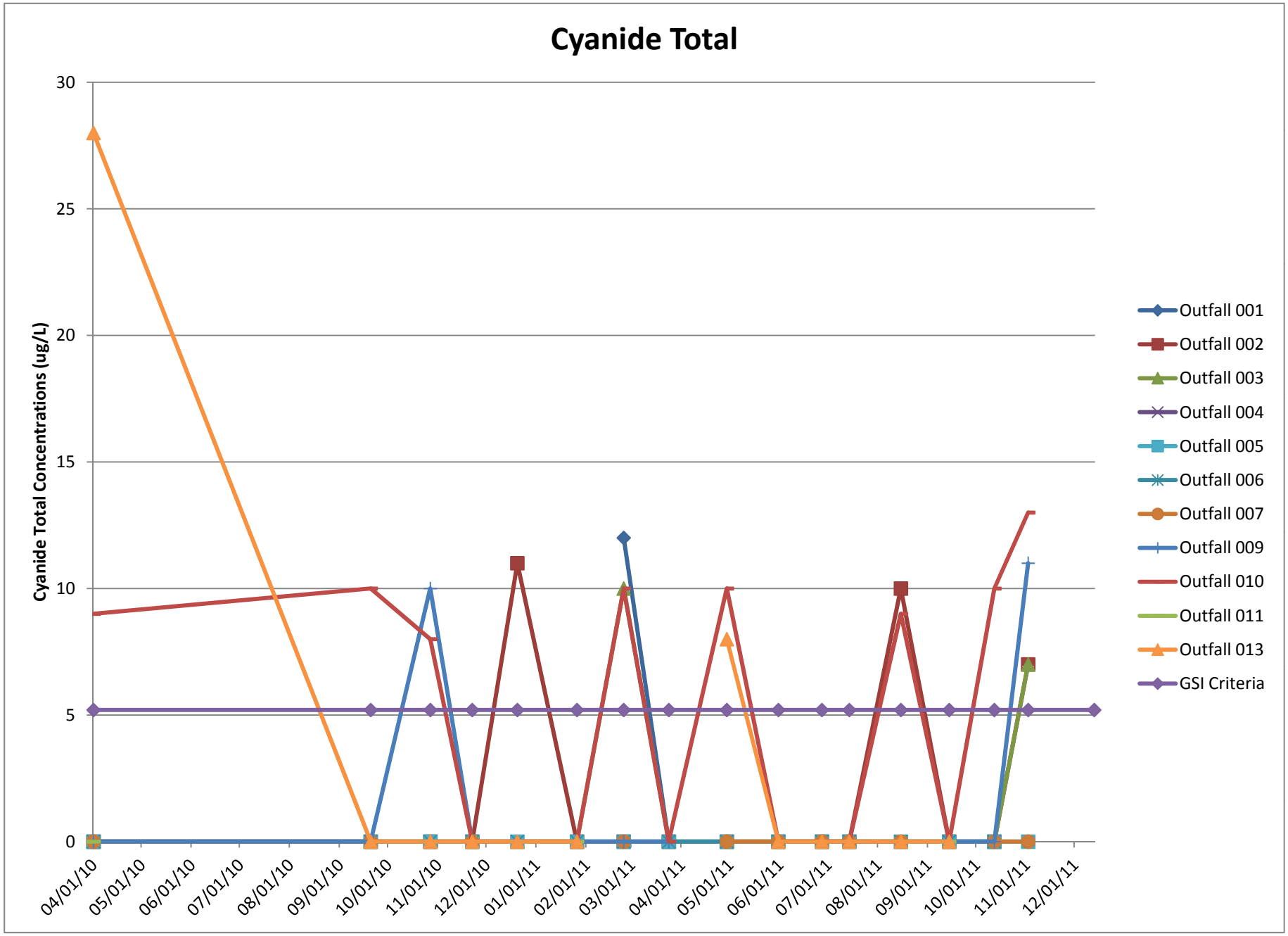

Beryllium
Beryllium Concentrations (ug/L)
35
30
25
20
15
10
5
0
04/01/10
05/01/10
06/01/10
07/01/10
08/01/10
09/01/10
10/01/10
11/01/10
12/01/10
01/01/11
02/01/11
03/01/11
04/01/11
05/01/11
06/01/11
07/01/11
08/01/11
09/01/11
10/01/11
11/01/11
12/01/11
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 005
Outfall 006
Outfall 007
Outfall 009
Outfall 010
Outfall 011
Outfall 013
GSI Criteria

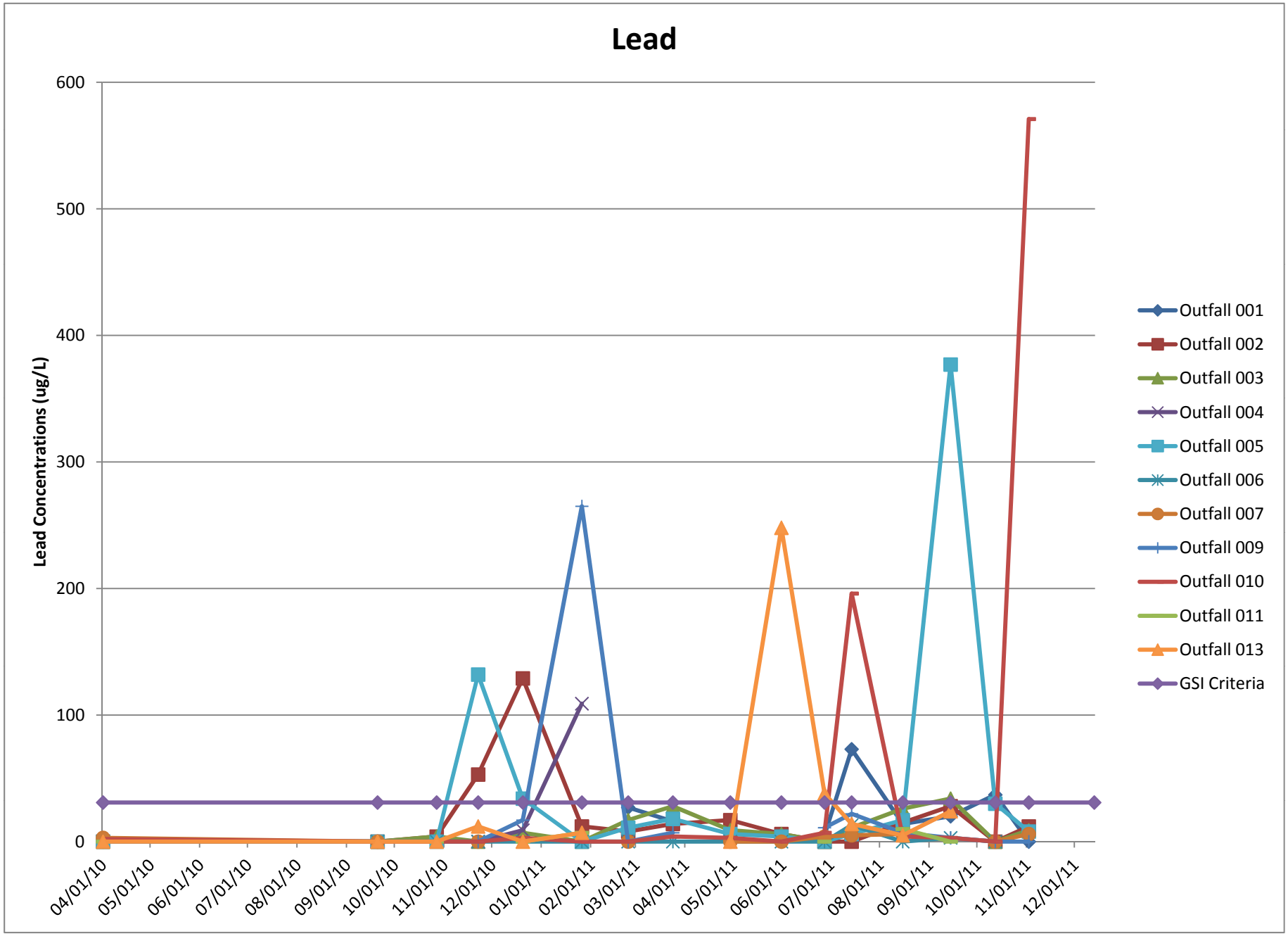

Cadmium
Cadmium Concentrations (ug/L)
9
8
7
6
5
4
3
2
1
0
04/01/10
05/01/10
06/01/10
07/01/10
08/01/10
09/01/10
10/01/10
11/01/10
12/01/10
01/01/11
02/01/11
03/01/11
04/01/11
05/01/11
06/01/11
07/01/11
08/01/11
09/01/11
10/01/11
11/01/11
12/01/11
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 005
Outfall 006
Outfall 007
Outfall 009
Outfall 010
Outfall 011
Outfall 013
GSI Criteria

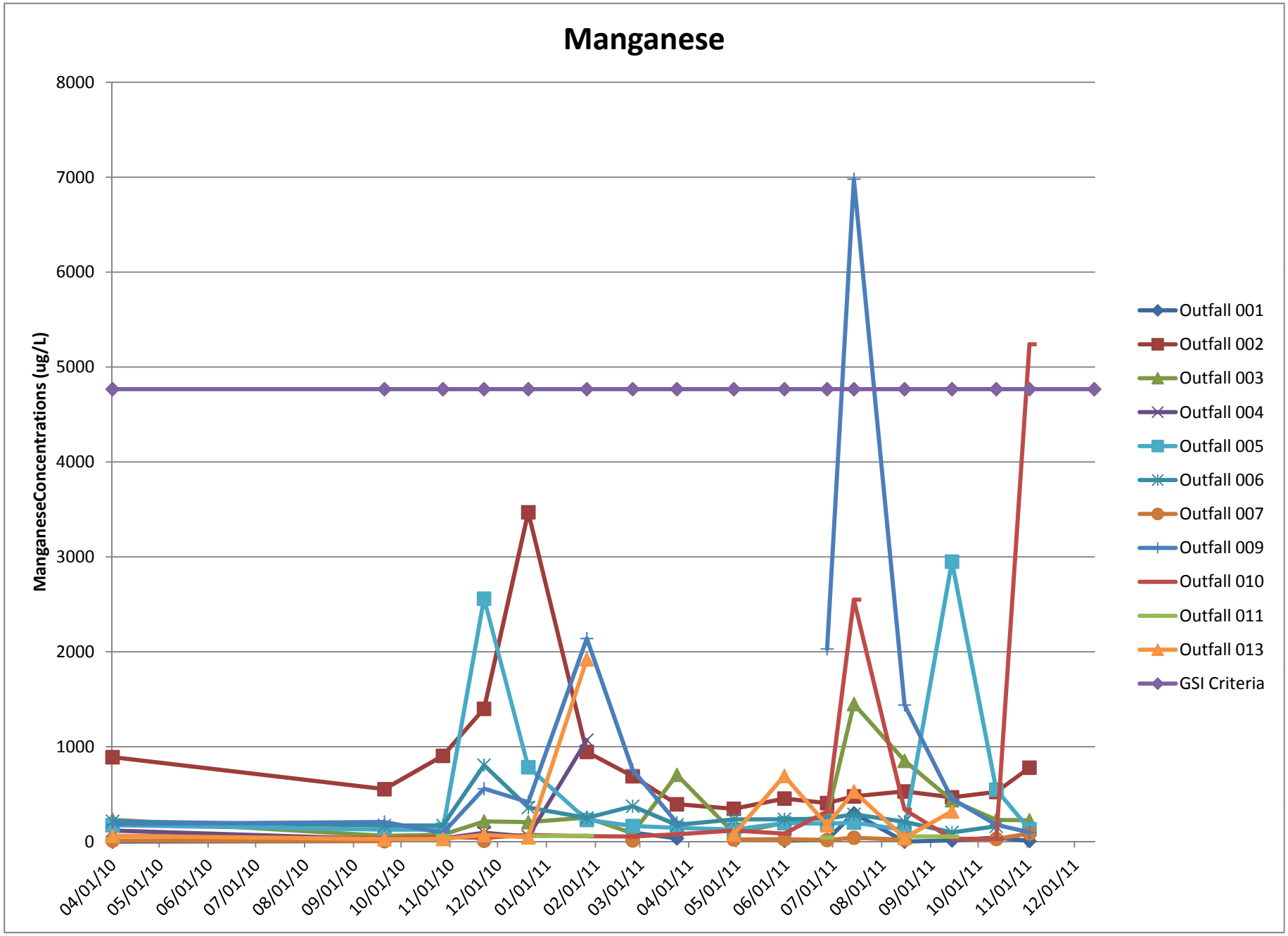

Chromium Total
Chromium Total Concentrations (ug/L)
60
50
40
30
20
10
0
04/01/10
05/01/10
06/01/10
07/01/10
08/01/10
09/01/10
10/01/10
11/01/10
12/01/10
01/01/11
02/01/11
03/01/11
04/01/11
05/01/11
06/01/11
07/01/11
08/01/11
09/01/11
10/01/11
11/01/11
12/01/11
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 005
Outfall 006
Outfall 007
Outfall 009
Outfall 010
Outfall 011
Outfall 013
GSI Criteria

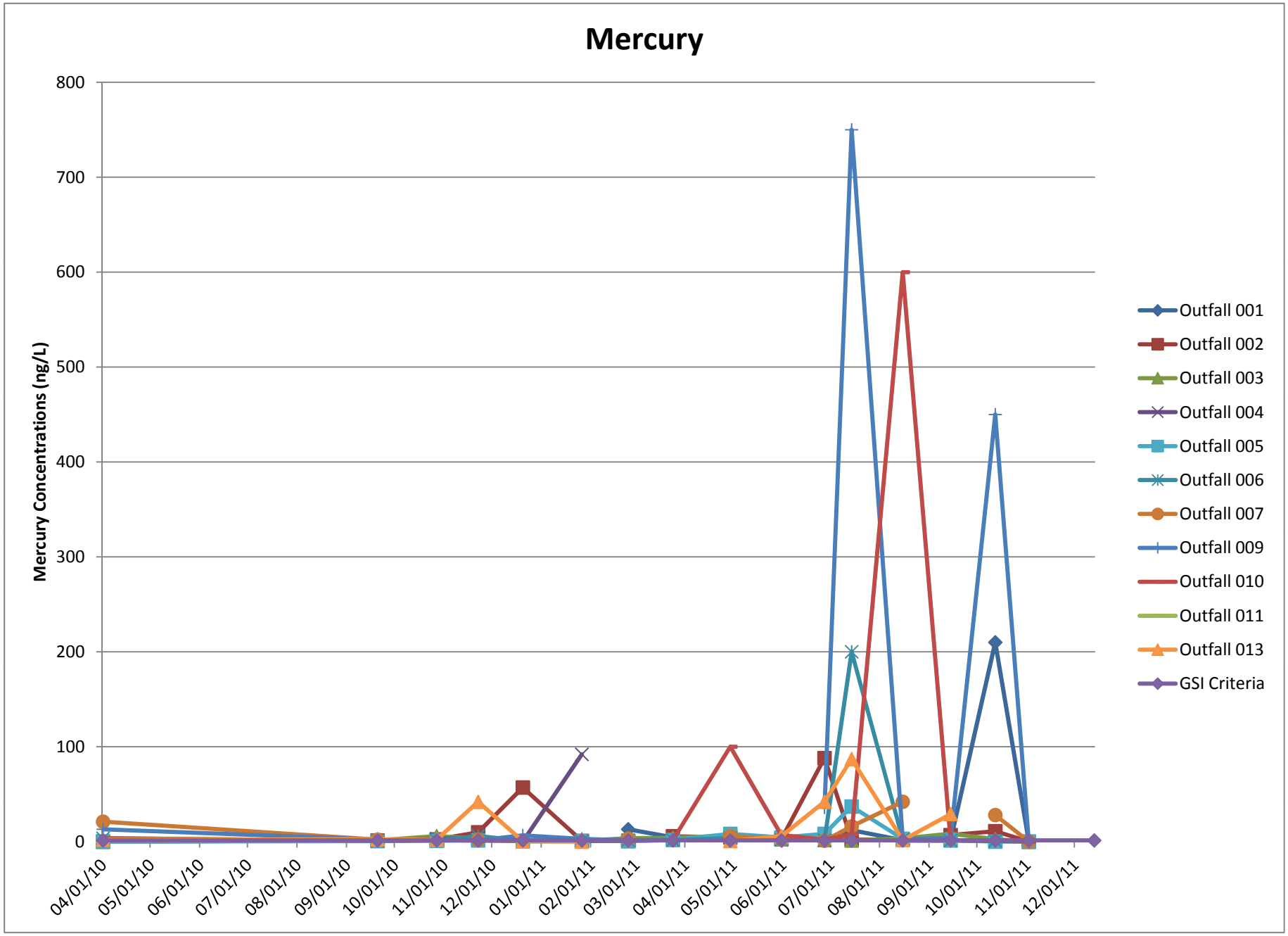

Cobalt
Cobalt Concentrations (ug/L)
120
100
80
60
40
20
0
04/01/10
05/01/10
06/01/10
07/01/10
08/01/10
09/01/10
10/01/10
11/01/10
12/01/10
01/01/11
02/01/11
03/01/11
04/01/11
05/01/11
06/01/11
07/01/11
08/01/11
09/01/11
10/01/11
11/01/11
12/01/11
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 005
Outfall 006
Outfall 007
Outfall 009
Outfall 010
Outfall 011
Outfall 013
GSI Criteria

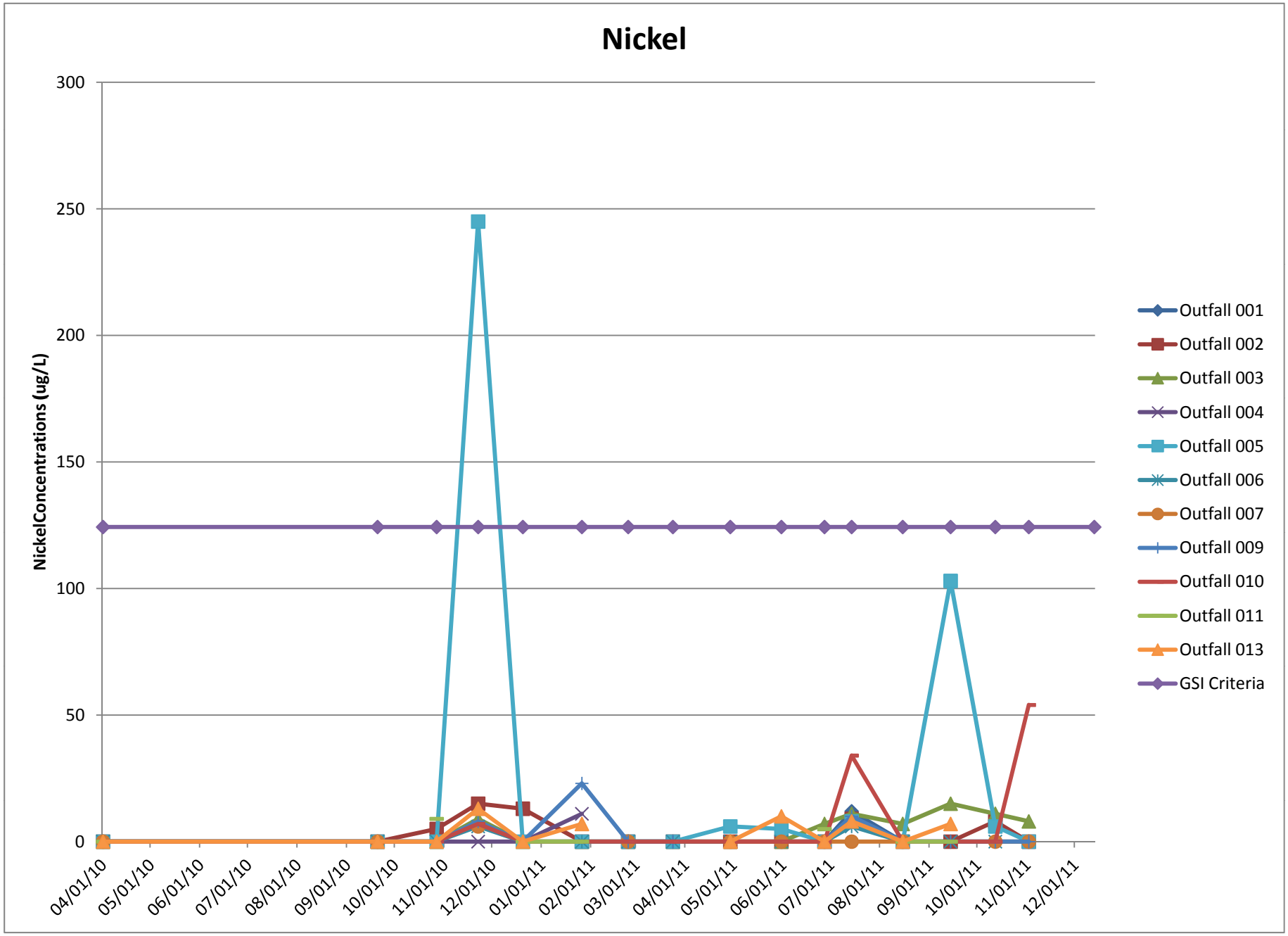

Copper
Copper Concentrations (ug/L)
250
200
150
100
50
0
04/01/10
05/01/10
06/01/10
07/01/10
08/01/10
09/01/10
10/01/10
11/01/10
12/01/10
01/01/11
02/01/11
03/01/11
04/01/11
05/01/11
06/01/11
07/01/11
08/01/11
09/01/11
10/01/11
11/01/11
12/01/11
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 005
Outfall 006
Outfall 007
Outfall 009
Outfall 010
Outfall 011
Outfall 013
GSI Criteria

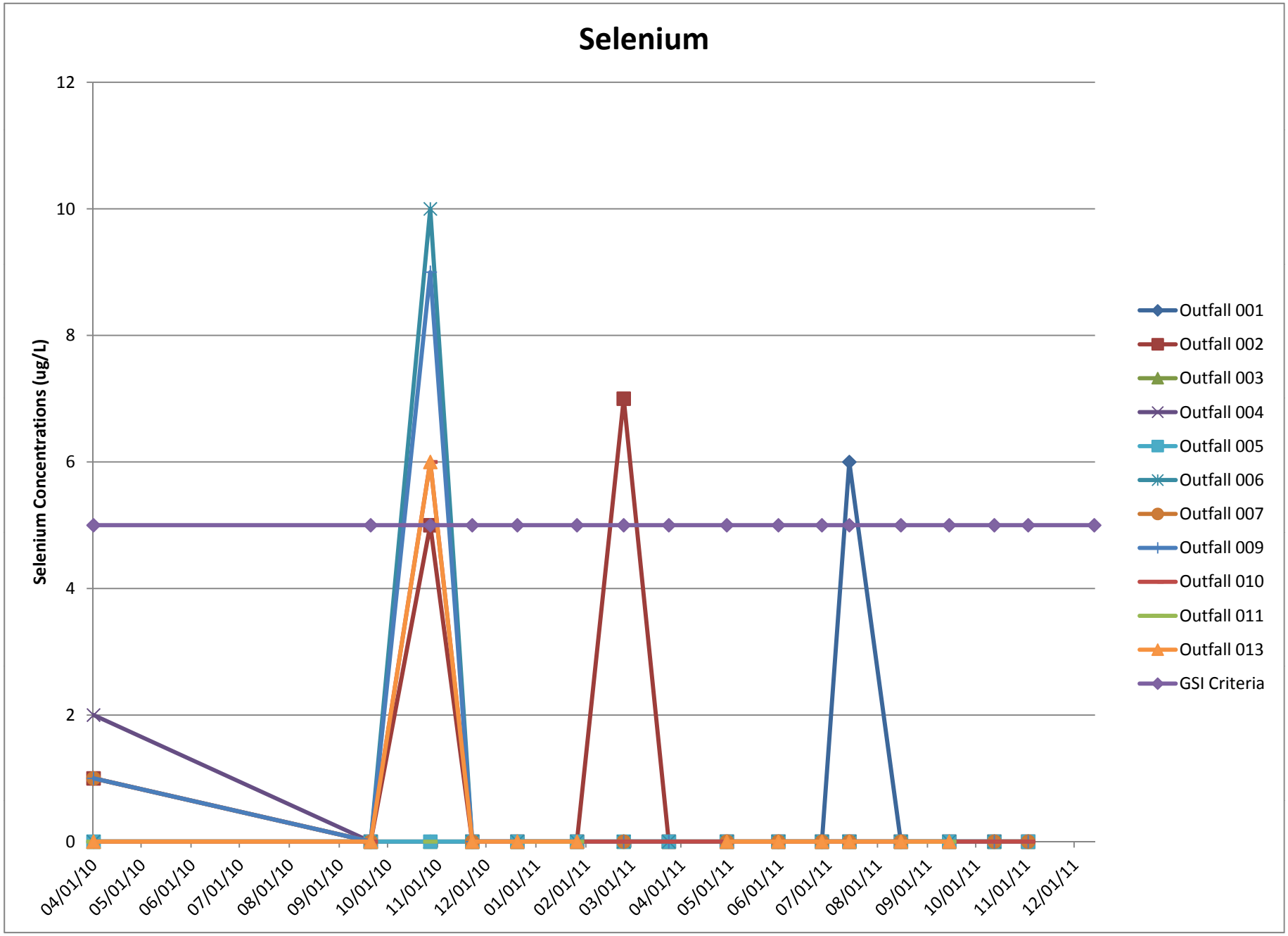

Cyanide Total
Cyanide Total Concentrations (ug/L)
30
25
20
15
10
5
0
04/01/10
05/01/10
06/01/10
07/01/10
08/01/10
09/01/10
10/01/10
11/01/10
12/01/10
01/01/11
02/01/11
03/01/11
04/01/11
05/01/11
06/01/11
07/01/11
08/01/11
09/01/11
10/01/11
11/01/11
12/01/11
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 005
Outfall 006
Outfall 007
Outfall 009
Outfall 010
Outfall 011
Outfall 013
GSI Criteria

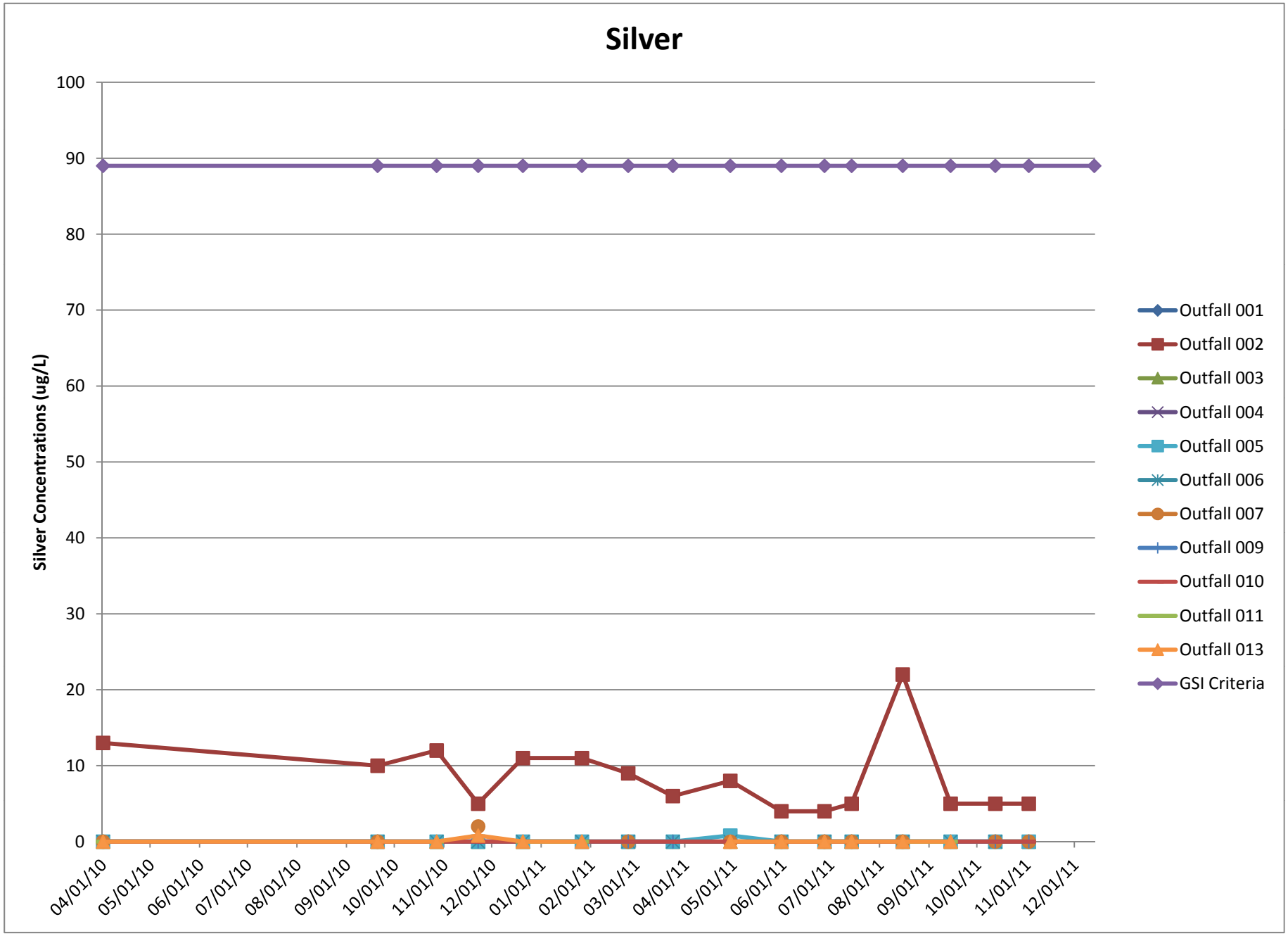

Lead
Lead Concentrations (ug/L)
600
500
400
300
200
100
0
04/01/10
05/01/10
06/01/10
07/01/10
08/01/10
09/01/10
10/01/10
11/01/10
12/01/10
01/01/11
02/01/11
03/01/11
04/01/11
05/01/11
06/01/11
07/01/11
08/01/11
09/01/11
10/01/11
11/01/11
12/01/11
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 005
Outfall 006
Outfall 007
Outfall 009
Outfall 010
Outfall 011
Outfall 013
GSI Criteria

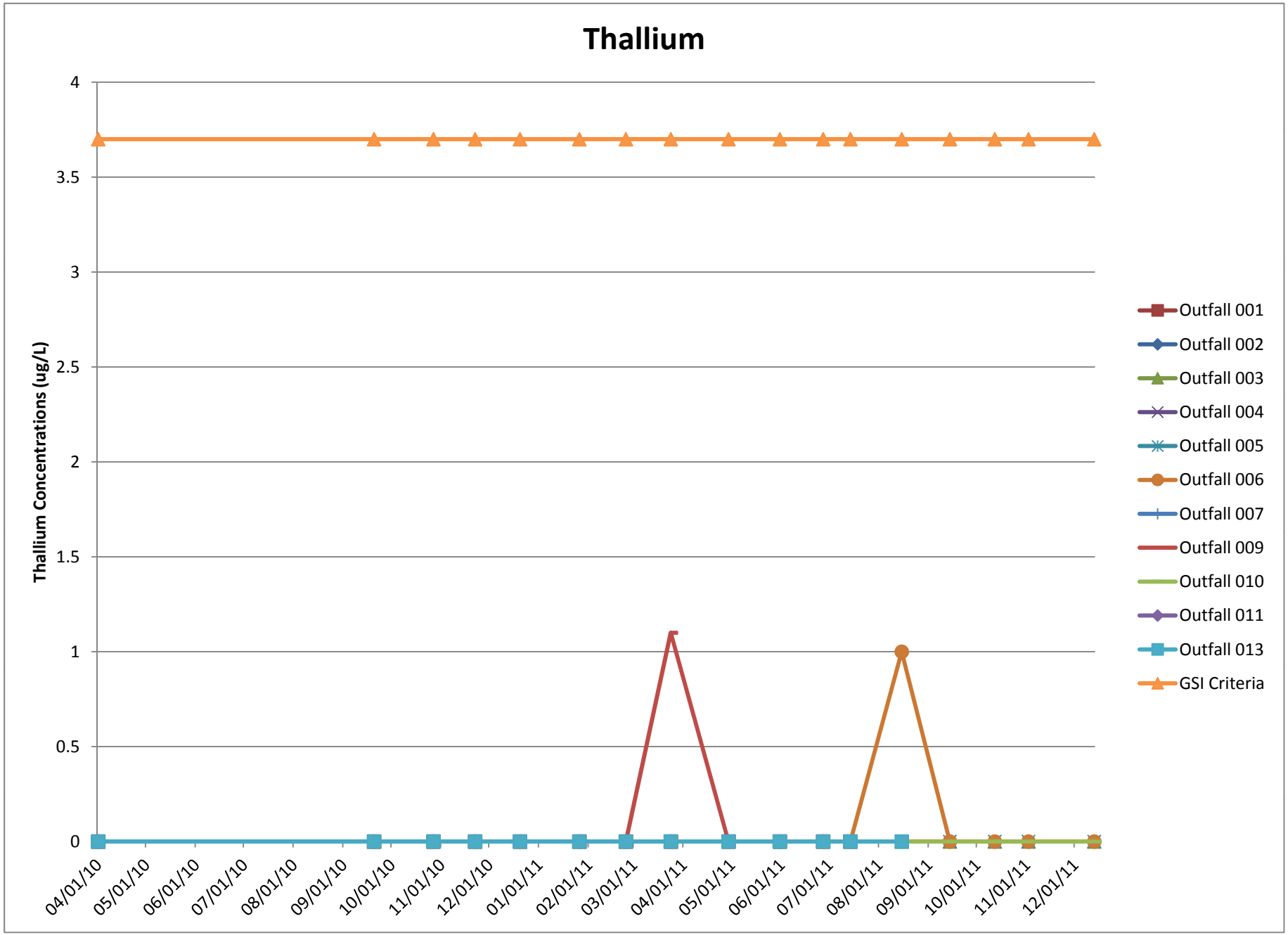

Manganese
ManganeseConcentrations (ug/L)
8000
7000
6000
5000
4000
3000
2000
1000
0
04/01/10
05/01/10
06/01/10
07/01/10
08/01/10
09/01/10
10/01/10
11/01/10
12/01/10
01/01/11
02/01/11
03/01/11
04/01/11
05/01/11
06/01/11
07/01/11
08/01/11
09/01/11
10/01/11
11/01/11
12/01/11
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 005
Outfall 006
Outfall 007
Outfall 009
Outfall 010
Outfall 011
Outfall 013
GSI Criteria

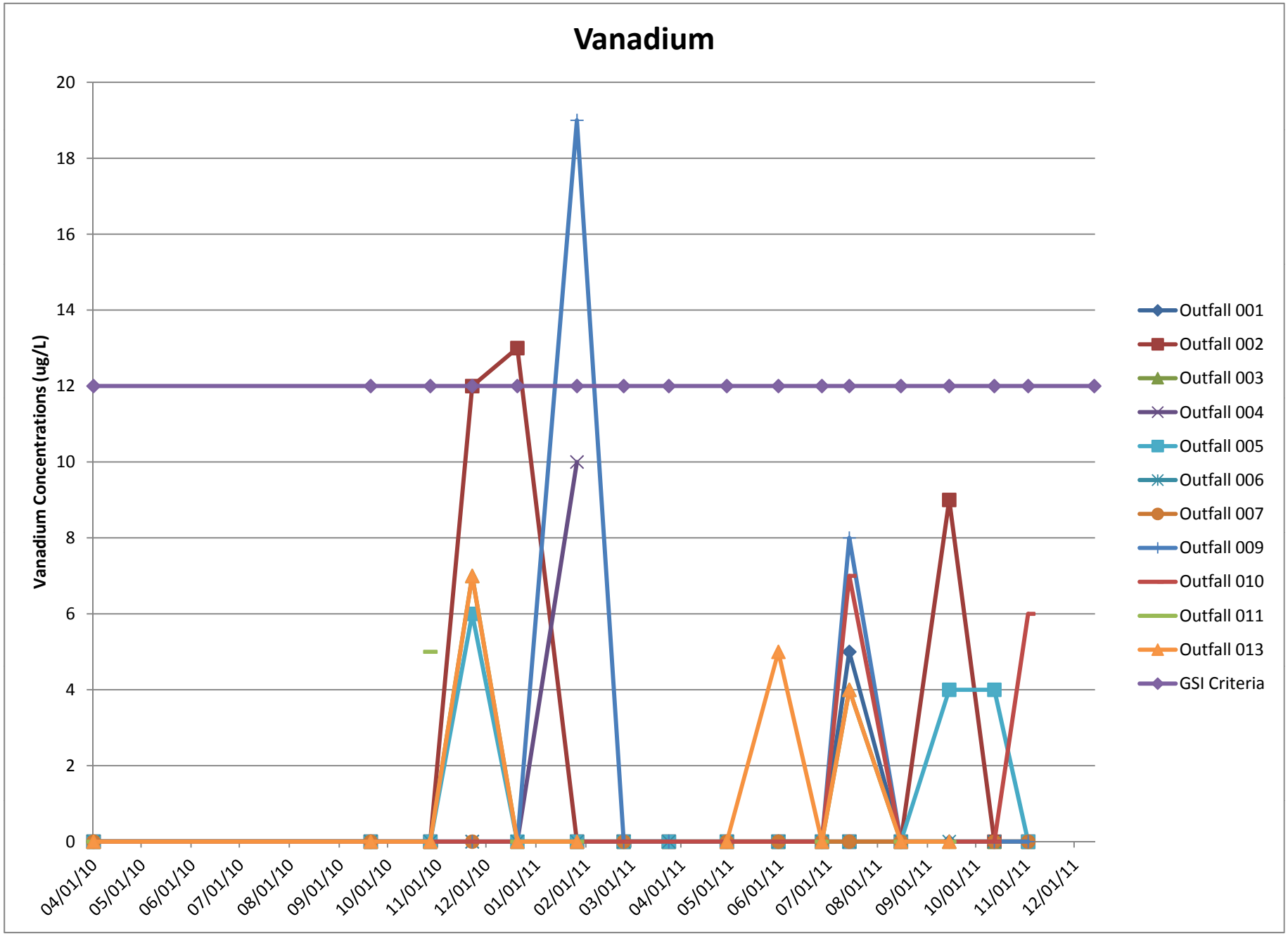

Mercury
Mercury Concentrations (ng/L)
800
700
600
500
400
300
200
100
0
04/01/10
05/01/10
06/01/10
07/01/10
08/01/10
09/01/10
10/01/10
11/01/10
12/01/10
01/01/11
02/01/11
03/01/11
04/01/11
05/01/11
06/01/11
07/01/11
08/01/11
09/01/11
10/01/11
11/01/11
12/01/11
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 005
Outfall 006
Outfall 007
Outfall 009
Outfall 010
Outfall 011
Outfall 013
GSI Criteria

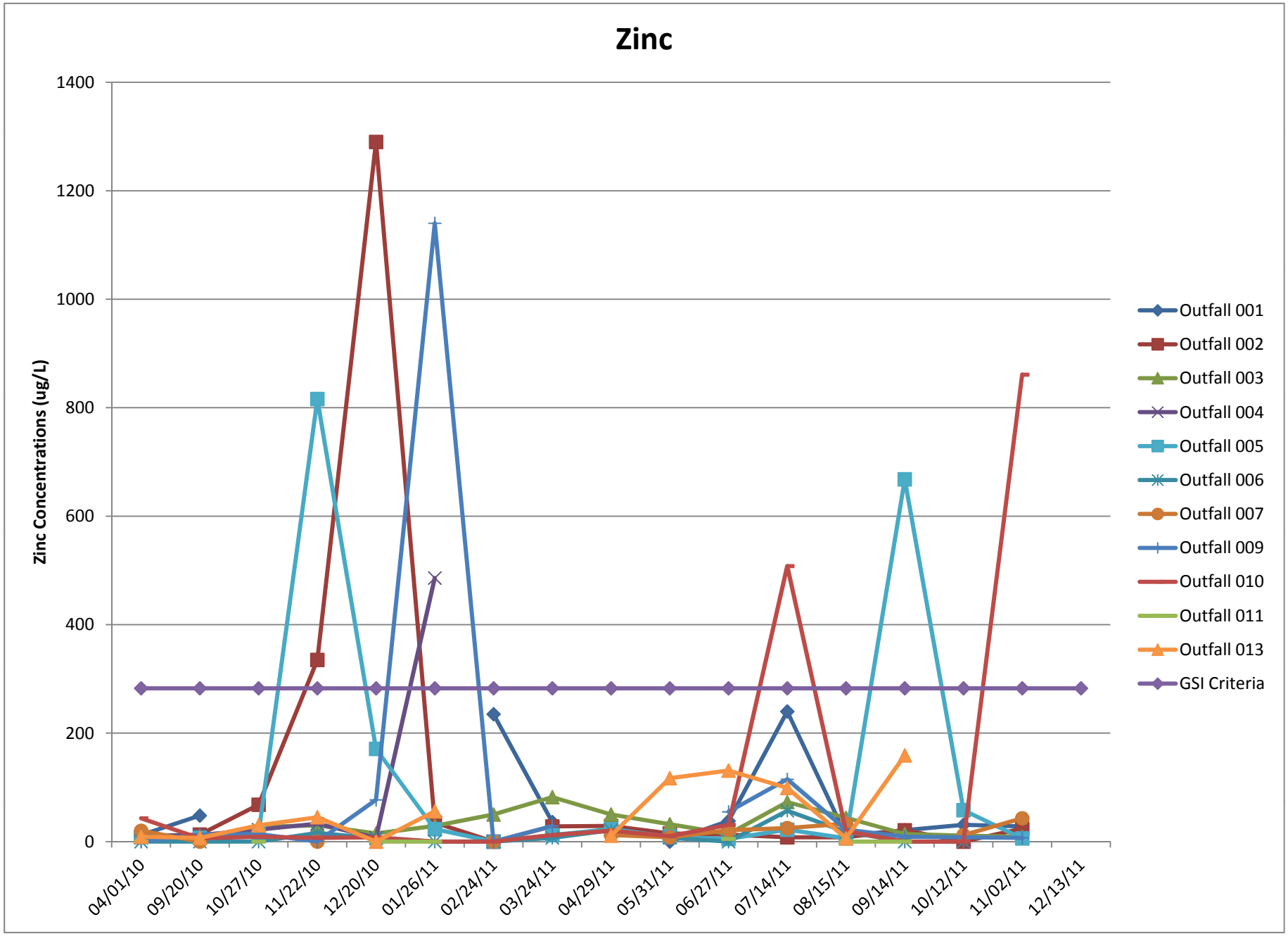

Nickel
NickelConcentrations (ug/L)
300
250
200
150
100
50
0
04/01/10
05/01/10
06/01/10
07/01/10
08/01/10
09/01/10
10/01/10
11/01/10
12/01/10
01/01/11
02/01/11
03/01/11
04/01/11
05/01/11
06/01/11
07/01/11
08/01/11
09/01/11
10/01/11
11/01/11
12/01/11
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 005
Outfall 006
Outfall 007
Outfall 009
Outfall 010
Outfall 011
Outfall 013
GSI Criteria


Selenium
Selenium Concentrations (ug/L)
12
10
8
6
4
2
0
04/01/10
05/01/10
06/01/10
07/01/10
08/01/10
09/01/10
10/01/10
11/01/10
12/01/10
01/01/11
02/01/11
03/01/11
04/01/11
05/01/11
06/01/11
07/01/11
08/01/11
09/01/11
10/01/11
11/01/11
12/01/11
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 005
Outfall 006
Outfall 007
Outfall 009
Outfall 010
Outfall 011
Outfall 013
GSI Criteria


Silver
Silver Concentrations (ug/L)
100
90
80
70
60
50
40
30
20
10
0
04/01/10
05/01/10
06/01/10
07/01/10
08/01/10
09/01/10
10/01/10
11/01/10
12/01/10
01/01/11
02/01/11
03/01/11
04/01/11
05/01/11
06/01/11
07/01/11
08/01/11
09/01/11
10/01/11
11/01/11
12/01/11
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 005
Outfall 006
Outfall 007
Outfall 009
Outfall 010
Outfall 011
Outfall 013
GSI Criteria


Thallium
Thallium Concentrations (ug/L)
4
3.5
3
2.5
2
1.5
1
0.5
0
04/01/10
05/01/10
06/01/10
07/01/10
08/01/10
09/01/10
10/01/10
11/01/10
12/01/10
01/01/11
02/01/11
03/01/11
04/01/11
05/01/11
06/01/11
07/01/11
08/01/11
09/01/11
10/01/11
11/01/11
12/01/11
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 005
Outfall 006
Outfall 007
Outfall 009
Outfall 010
Outfall 011
Outfall 013
GSI Criteria


Vanadium
Vanadium Concentrations (ug/L)
20
18
16
14
12
10
8
6
4
2
0
04/01/10
05/01/10
06/01/10
07/01/10
08/01/10
09/01/10
10/01/10
11/01/10
12/01/10
01/01/11
02/01/11
03/01/11
04/01/11
05/01/11
06/01/11
07/01/11
08/01/11
09/01/11
10/01/11
11/01/11
12/01/11
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 005
Outfall 006
Outfall 007
Outfall 009
Outfall 010
Outfall 011
Outfall 013
GSI Criteria


Zinc
Zinc Concentrations (ug/L)
1400
1200
1000
800
600
400
200
0
04/01/10
09/20/10
10/27/10
11/22/10
12/20/10
01/26/11
02/24/11
03/24/11
04/29/11
05/31/11
06/27/11
07/14/11
08/15/11
09/14/11
10/12/11
11/02/11
12/13/11
Outfall 001
Outfall 002
Outfall 003
Outfall 004
Outfall 005
Outfall 006
Outfall 007
Outfall 009
Outfall 010
Outfall 011
Outfall 013
GSI Criteria

Analytical Laboratory Report

Report ID: S48170.01(01)
Generated on 03/31/2011

Report to

Attention: Mike Brennan
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S48170.01-S48170.12
Project: B0064410.2011.00801
Collected Date: 03/24/2011
Submitted Date/Time: 03/24/2011 14:50
Sampled by: Tony Maffeo
P.O. #: B0064410.2011.0

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (12 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S48170.01	MP001_03242011	Liquid	03/24/2011 12:40
S48170.02	MP002_03242011	Liquid	03/24/2011 09:15
S48170.03	MP003_03242011	Liquid	03/24/2011 08:15
S48170.04	MP005_03242011	Liquid	03/24/2011 09:00
S48170.05	MP006_03242011	Liquid	03/24/2011 11:15
S48170.06	MP006_03242011 MS	Liquid	03/24/2011 11:15
S48170.07	MP006_03242011 MSD	Liquid	03/24/2011 11:15
S48170.08	MP009_03242011	Liquid	03/24/2011 11:50
S48170.09	MP010_03242011	Liquid	03/24/2011 11:35
S48170.10	Duplicate_03242011	Liquid	03/24/2011 09:15
S48170.11	Field Blank_03242011	Liquid	03/24/2011 13:40
S48170.12	EB_03242011	Liquid	03/24/2011 10:40

Analytical Laboratory Report

Lab Sample ID: S48170.01
Sample Tag: MP001_03242011
Collected Date/Time: 03/24/2011 12:40
Matrix: Liquid
COC Reference: 60497

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	4.6	ng/L	0.51	1631E	03/31/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48170.02
Sample Tag: MP002_03242011
Collected Date/Time: 03/24/2011 09:15
Matrix: Liquid
COC Reference: 60497

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	5.6	ng/L	0.51	1631E	03/31/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48170.03
Sample Tag: MP003_03242011
Collected Date/Time: 03/24/2011 08:15
Matrix: Liquid
COC Reference: 60497

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	4.1	ng/L	0.51	1631E	03/31/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48170.04
Sample Tag: MP005_03242011
Collected Date/Time: 03/24/2011 09:00
Matrix: Liquid
COC Reference: 60497

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	1.8	ng/L	0.51	1631E	03/31/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48170.05
Sample Tag: MP006_03242011
Collected Date/Time: 03/24/2011 11:15
Matrix: Liquid
COC Reference: 60497

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	1.7	ng/L	0.51	1631E	03/31/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48170.06
Sample Tag: MP006_03242011 MS
Collected Date/Time: 03/24/2011 11:15
Matrix: Liquid
COC Reference: 60497

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	7.4	ng/L	0.51	1631E	03/31/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48170.07
Sample Tag: MP006_03242011 MSD
Collected Date/Time: 03/24/2011 11:15
Matrix: Liquid
COC Reference: 60497

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	7.3	ng/L	0.51	1631E	03/31/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48170.08
Sample Tag: MP009_03242011
Collected Date/Time: 03/24/2011 11:50
Matrix: Liquid
COC Reference: 60497

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	1.8	ng/L	0.51	1631E	03/31/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48170.09
Sample Tag: MP010_03242011
Collected Date/Time: 03/24/2011 11:35
Matrix: Liquid
COC Reference: 60497

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	1.4	ng/L	0.51	1631E	03/31/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48170.10
Sample Tag: Duplicate_03242011
Collected Date/Time: 03/24/2011 09:15
Matrix: Liquid
COC Reference: 60497

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	5.1	ng/L	0.51	1631E	03/31/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48170.11
Sample Tag: Field Blank_03242011
Collected Date/Time: 03/24/2011 13:40
Matrix: Liquid
COC Reference: 60497

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	0.63	ng/L	0.51	1631E	03/31/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48170.12
Sample Tag: EB_03242011
Collected Date/Time: 03/24/2011 10:40
Matrix: Liquid
COC Reference: 60497

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	Not detected	ng/L	0.51	1631E	03/31/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

60497

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MIKE BRENNAN
COMPANY: ARCADIS
ADDRESS: 10559 CITATION DR., STE 100
CITY: BRIGHTON STATE: MI ZIP CODE: 48116
PHONE NO.: (SEE CONTRACT FOR DETAILS) FAX NO.: P.O. NO.:
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: MR. ROBERT W. HARE ☐ SAME
COMPANY: MOTORS LIQUIDATION COMPANY
ADDRESS: 401 S. OLD WOODWARD AVE, STE 370
CITY: BIRMINGHAM STATE: MI ZIP CODE: 48009
PHONE NO.: 313-486-2928 FAX NO.: — P.O. NO.: MLT-1295

PROJECT NO./NAME: B0064410.2011.00801
SAMPLER(S) - PLEASE PRINT/SIGN NAME: TONY MAFFEO / [signature]

TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☒ OTHER EDD

SPECIAL INSTRUCTIONS/NOTES: * PLEASE ALSO SEND COPY OF INVOICE TO MICKI MAKI (ARCADIS

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED): Total Hg

MERIT LAB NO.	YEAR 11 DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Total Hg	SPECIAL INSTRUCTIONS/NOTES
48170.01	3/24	1240	MP001_03242011	L	4	4							X	
.02	3/24	0915	MP002_03242011	L	4	4							X	
.03	3/24	0815	MP003_03242011	L	4	4							X	
.04	3/24	0900	MP005_03242011	L	4	4							X	
.05/.06/.07	3/24	1115	MP006_03242011	L	12	12							X	MS/MSD
.08	3/24	1150	MP009_03242011	L	4	4							X	
.09	3/24	1135	MP010_03242011	L	4	4							X	
.10	3/24	0915	DUPLICATE_03242011	L	4	4							X	
.11	3/24	1340	FIELD BLANK_032411	L	4	4							X	
.12	3/24	1040	EB_03242011	L	4	4							X	
~~.13~~			TRIP BLANK											

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
[signature] / ARCADIS	3/24	1400
RECEIVED BY: SIGNATURE/ORGANIZATION [signature]	3-24-11	1400
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
[signature]	3-24-11	1950
RECEIVED BY: SIGNATURE/ORGANIZATION [signature]	3-24-11	1950

SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL 4.1
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Fibertec
environmental
services

Thursday, March 31, 2011

Fibertec Project Number: 43806
Project Identification: 48170 /
Submittal Date: 03/24/2011

Ms. Paula Shaw
Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Dear Ms. Shaw,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note samples will be disposed of 30 days after reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48170.01**	Chain of Custody:	**61515**
Client Project Name:	**48170**	Sample No:	**1**	Collect Date:	**03/24/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**12:40**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 43806-001** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**4.6**		ng/L	0.51	1.0	03/31/11	PM11C31A	03/31/11	M511C31A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48170.02**	Chain of Custody:	**61515**
Client Project Name:	**48170**	Sample No:	**2**	Collect Date:	**03/24/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:15**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 43806-002** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**5.6**		ng/L	0.51	1.0	03/31/11	PM11C31A	03/31/11	M511C31A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48170.03**	Chain of Custody:	**61515**
Client Project Name:	**48170**	Sample No:	**3**	Collect Date:	**03/24/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**08:15**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 43806-003** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**4.1**		ng/L	0.51	1.0	03/31/11	PM11C31A	03/31/11	M511C31A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48170.04**	Chain of Custody:	**61515**
Client Project Name:	**48170**	Sample No:	**4**	Collect Date:	**03/24/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 43806-004** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**1.8**		ng/L	0.51	1.0	03/31/11	PM11C31A	03/31/11	M511C31A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48170.05**	Chain of Custody:	**61515**
Client Project Name:	**48170**	Sample No:	**5**	Collect Date:	**03/24/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**11:15**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 43806-005** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**1.7**		ng/L	0.51	1.0	03/31/11	PM11C31A	03/31/11	M511C31A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48170.06 MS**	Chain of Custody:	**61515**
Client Project Name:	**48170**	Sample No:	**6**	Collect Date:	**03/24/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**11:15**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 43806-006** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**7.4**		ng/L	0.51	1.0	03/31/11	PM11C31A	03/31/11	M511C31A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48170.07 MSD**	Chain of Custody:	**61515**
Client Project Name:	**48170**	Sample No:	**7**	Collect Date:	**03/24/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**11:15**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 43806-007** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**7.3**		ng/L	0.51	1.0	03/31/11	PM11C31A	03/31/11	M511C31A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48170.08**	Chain of Custody:	**61515**
Client Project Name:	**48170**	Sample No:	**8**	Collect Date:	**03/24/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**11:50**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 43806-008** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**1.8**		ng/L	0.51	1.0	03/31/11	PM11C31A	03/31/11	M511C31A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48170.09**	Chain of Custody:	**61515**
Client Project Name:	**48170**	Sample No:	**9**	Collect Date:	**03/24/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**11:35**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 43806-009** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**1.4**		ng/L	0.51	1.0	03/31/11	PM11C31A	03/31/11	M511C31A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48170.10**	Chain of Custody:	**61515**
Client Project Name:	**48170**	Sample No:	**10**	Collect Date:	**03/24/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:15**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 43806-010** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**5.1**		ng/L	0.51	1.0	03/31/11	PM11C31A	03/31/11	M511C31A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48170.11**	Chain of Custody:	**61515**
Client Project Name:	**48170**	Sample No:	**11**	Collect Date:	**03/24/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**13:40**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 43806-011** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**0.63**		ng/L	0.51	1.0	03/31/11	PM11C31A	03/31/11	M511C31A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48170.12**	Chain of Custody:	**61515**
Client Project Name:	**48170**	Sample No:	**12**	Collect Date:	**03/24/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**10:40**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 43806-012** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	U		ng/L	0.51	1.0	03/31/11	PM11C31A	03/31/11	M511C31A

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QA limits

Exception Summary:

ACCREDITED IN ACCORDANCE WITH nelac

Accreditation Number:

E-10395

Analytical Laboratory Report

Report ID: S48172.01(01)
Generated on 04/01/2011

Report to

Attention: Mike Brennan/ Liz Marsh/Amy C
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S48172.01-S48172.13
Project: B0064410.2011.00801
Collected Date: 03/24/2011
Submitted Date/Time: 03/24/2011 14:50
Sampled by: Tony Maffeo
P.O. #: B0064410.2011.0

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (13 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S48172.01	MP001_03242011	Liquid	03/24/2011 12:40
S48172.02	MP002_03242011	Liquid	03/24/2011 09:15
S48172.03	MP003_03242011	Liquid	03/24/2011 08:15
S48172.04	MP005_03242011	Liquid	03/24/2011 09:00
S48172.05	MP006_03242011	Liquid	03/24/2011 11:15
S48172.06	MP006_03242011 MS	Liquid	03/24/2011 11:15
S48172.07	MP006_03242011 MSD	Liquid	03/24/2011 11:15
S48172.08	MP009_03242011	Liquid	03/24/2011 11:50
S48172.09	MP010_03242011	Liquid	03/24/2011 11:35
S48172.10	Duplicate_03242011	Liquid	03/24/2011 09:15
S48172.11	Field Blank_03242011	Liquid	03/24/2011 13:40
S48172.12	EB_03242011	Liquid	03/24/2011 10:40
S48172.13	Trip Blank	Liquid	03/24/2011

Analytical Laboratory Report

Lab Sample ID: S48172.01
Sample Tag: MP001_03242011
Collected Date/Time: 03/24/2011 12:40
Matrix: Liquid
COC Reference: 60498

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.1	IR
1	125ml Plastic	HNO3	Yes	4.1	IR
1	125ml Plastic	NaOH	Yes	4.1	IR
1	250ml Plastic	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	03/31/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	03/30/11 11:38	JDP	57-12-5	
Total Suspended Solids	10	mg/L	1	2540 D	03/30/11 14:00	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	03/31/11 14:52	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	03/31/11 14:52	SLS	7440-38-2	
Barium	0.092	mg/L	0.005	200.8	03/31/11 14:52	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	04/01/11 10:26	SLS	7440-41-7	
Cadmium	0.0016	mg/L	0.0005	200.8	03/31/11 14:52	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	03/31/11 14:52	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	03/31/11 14:52	SLS	7440-48-4	
Copper	0.006	mg/L	0.004	200.8	03/31/11 14:52	SLS	7440-50-8	
Lead	0.016	mg/L	0.003	200.8	03/31/11 14:52	SLS	7439-92-1	
Manganese	0.035	mg/L	0.005	200.8	03/31/11 14:52	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	03/31/11 14:52	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	03/31/11 14:52	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	03/31/11 14:52	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	03/31/11 14:52	SLS	7440-28-0	
Vanadium	Not detected	mg/L	0.004	200.8	03/31/11 14:52	SLS	7440-62-2	
Zinc	0.036	mg/L	0.005	200.8	03/31/11 14:52	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	03/25/11 16:03	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	03/25/11 16:03	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	03/25/11 16:03	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	03/25/11 16:03	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	03/25/11 16:03	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	03/25/11 16:03	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	03/25/11 16:03	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	03/25/11 16:03	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	03/25/11 16:03	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	03/25/11 16:03	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	75-35-4	

Lab Sample ID: S48172.01 (continued)
Sample Tag: MP001_03242011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Methylene chloride	Not detected	ug/L	5	8260B	03/25/11 16:03	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	75-34-3	
cis-1,2-Dichloroethene	1	ug/L	1	8260B	03/25/11 16:03	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	03/25/11 16:03	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	03/25/11 16:03	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	03/25/11 16:03	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	03/25/11 16:03	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	03/25/11 16:03	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	03/25/11 16:03	WAT		
o-Xylene	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	03/25/11 16:03	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	03/25/11 16:03	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	03/25/11 16:03	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	03/25/11 16:03	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	03/25/11 16:03	WAT	96-12-8	

Lab Sample ID: S48172.01 (continued)
Sample Tag: MP001_03242011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	03/25/11 16:03	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	03/25/11 16:03	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	03/25/11 16:03	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	03/25/11 16:03	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S48172.02
Sample Tag: MP002_03242011
Collected Date/Time: 03/24/2011 09:15
Matrix: Liquid
COC Reference: 60498

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.1	IR
1	125ml Plastic	HNO3	Yes	4.1	IR
1	125ml Plastic	NaOH	Yes	4.1	IR
1	250ml Plastic	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	03/31/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	03/30/11 11:40	JDP	57-12-5	
Total Suspended Solids	11	mg/L	1	2540 D	03/30/11 14:00	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	03/31/11 14:57	SLS	7440-36-0	
Arsenic	0.006	mg/L	0.002	200.8	03/31/11 14:57	SLS	7440-38-2	
Barium	0.231	mg/L	0.005	200.8	03/31/11 14:57	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	04/01/11 10:28	SLS	7440-41-7	
Cadmium	0.0014	mg/L	0.0005	200.8	03/31/11 14:57	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	03/31/11 14:57	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	03/31/11 14:57	SLS	7440-48-4	
Copper	0.008	mg/L	0.004	200.8	03/31/11 14:57	SLS	7440-50-8	
Lead	0.014	mg/L	0.003	200.8	03/31/11 14:57	SLS	7439-92-1	
Manganese	0.394	mg/L	0.005	200.8	03/31/11 14:57	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	03/31/11 14:57	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	03/31/11 14:57	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	03/31/11 14:57	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	03/31/11 14:57	SLS	7440-28-0	
Vanadium	Not detected	mg/L	0.004	200.8	03/31/11 14:57	SLS	7440-62-2	
Zinc	0.028	mg/L	0.005	200.8	03/31/11 14:57	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	03/25/11 16:21	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	03/25/11 16:21	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	03/25/11 16:21	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	03/25/11 16:21	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	03/25/11 16:21	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	03/25/11 16:21	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	03/25/11 16:21	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	03/25/11 16:21	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	03/25/11 16:21	WAT	74-83-9	
Chloroethane	15	ug/L	5	8260B	03/25/11 16:21	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	75-35-4	

Lab Sample ID: S48172.02 (continued)
Sample Tag: MP002_03242011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Methylene chloride	Not detected	ug/L	5	8260B	03/25/11 16:21	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	156-60-5	
1,1-Dichloroethane	12	ug/L	1	8260B	03/25/11 16:21	WAT	75-34-3	
cis-1,2-Dichloroethene	6	ug/L	1	8260B	03/25/11 16:21	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	03/25/11 16:21	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	74-97-5	
1,1,1-Trichloroethane	6	ug/L	1	8260B	03/25/11 16:21	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	03/25/11 16:21	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	03/25/11 16:21	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	107-06-2	
Trichloroethene	2	ug/L	1	8260B	03/25/11 16:21	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	03/25/11 16:21	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	03/25/11 16:21	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	03/25/11 16:21	WAT		
o-Xylene	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	03/25/11 16:21	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	03/25/11 16:21	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	03/25/11 16:21	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	03/25/11 16:21	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	03/25/11 16:21	WAT	96-12-8	

Lab Sample ID: S48172.02 (continued)
Sample Tag: MP002_03242011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	03/25/11 16:21	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	03/25/11 16:21	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	03/25/11 16:21	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	03/25/11 16:21	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S48172.03
Sample Tag: MP003_03242011
Collected Date/Time: 03/24/2011 08:15
Matrix: Liquid
COC Reference: 60498

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.1	IR
1	125ml Plastic	HNO3	Yes	4.1	IR
1	125ml Plastic	NaOH	Yes	4.1	IR
1	250ml Plastic	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	03/31/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	03/30/11 11:42	JDP	57-12-5	
Total Suspended Solids	22	mg/L	1	2540 D	03/30/11 14:00	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	03/31/11 15:02	SLS	7440-36-0	
Arsenic	0.003	mg/L	0.002	200.8	03/31/11 15:02	SLS	7440-38-2	
Barium	0.083	mg/L	0.005	200.8	03/31/11 15:02	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	04/01/11 10:30	SLS	7440-41-7	
Cadmium	0.0006	mg/L	0.0005	200.8	03/31/11 15:02	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	03/31/11 15:02	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	03/31/11 15:02	SLS	7440-48-4	
Copper	0.008	mg/L	0.004	200.8	03/31/11 15:02	SLS	7440-50-8	
Lead	0.028	mg/L	0.003	200.8	03/31/11 15:02	SLS	7439-92-1	
Manganese	0.704	mg/L	0.005	200.8	03/31/11 15:02	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	03/31/11 15:02	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	03/31/11 15:02	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	03/31/11 15:02	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	03/31/11 15:02	SLS	7440-28-0	
Vanadium	Not detected	mg/L	0.004	200.8	03/31/11 15:02	SLS	7440-62-2	
Zinc	0.082	mg/L	0.005	200.8	03/31/11 15:02	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	03/25/11 16:39	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	03/25/11 16:39	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	03/25/11 16:39	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	03/25/11 16:39	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	03/25/11 16:39	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	03/25/11 16:39	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	03/25/11 16:39	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	03/25/11 16:39	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	03/25/11 16:39	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	03/25/11 16:39	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	75-35-4	

Lab Sample ID: S48172.03 (continued)
Sample Tag: MP003_03242011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Methylene chloride	Not detected	ug/L	5	8260B	03/25/11 16:39	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	03/25/11 16:39	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	03/25/11 16:39	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	03/25/11 16:39	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	03/25/11 16:39	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	03/25/11 16:39	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	03/25/11 16:39	WAT		
o-Xylene	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	03/25/11 16:39	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	03/25/11 16:39	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	03/25/11 16:39	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	03/25/11 16:39	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	03/25/11 16:39	WAT	96-12-8	

Lab Sample ID: S48172.03 (continued)
Sample Tag: MP003_03242011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	03/25/11 16:39	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	03/25/11 16:39	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	03/25/11 16:39	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	03/25/11 16:39	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S48172.04
Sample Tag: MP005_03242011
Collected Date/Time: 03/24/2011 09:00
Matrix: Liquid
COC Reference: 60498

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.1	IR
1	125ml Plastic	NaOH	Yes	4.1	IR
1	250ml Plastic	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	03/31/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	03/30/11 11:44	JDP	57-12-5	
Total Suspended Solids	1	mg/L	1	2540 D	03/30/11 14:00	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	03/31/11 15:06	SLS	7440-36-0	
Arsenic	0.006	mg/L	0.002	200.8	03/31/11 15:06	SLS	7440-38-2	
Barium	0.071	mg/L	0.005	200.8	03/31/11 15:06	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	04/01/11 10:32	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	03/31/11 15:06	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	03/31/11 15:06	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	03/31/11 15:06	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	03/31/11 15:06	SLS	7440-50-8	
Lead	0.018	mg/L	0.003	200.8	03/31/11 15:06	SLS	7439-92-1	
Manganese	0.145	mg/L	0.005	200.8	03/31/11 15:06	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	03/31/11 15:06	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	03/31/11 15:06	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	03/31/11 15:06	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	03/31/11 15:06	SLS	7440-28-0	
Vanadium	Not detected	mg/L	0.004	200.8	03/31/11 15:06	SLS	7440-62-2	
Zinc	0.012	mg/L	0.005	200.8	03/31/11 15:06	SLS	7440-66-6	

Analytical Laboratory Report

Lab Sample ID: S48172.05
Sample Tag: MP006_03242011
Collected Date/Time: 03/24/2011 11:15
Matrix: Liquid
COC Reference: 60498

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.1	IR
1	125ml Plastic	HNO3	Yes	4.1	IR
1	125ml Plastic	NaOH	Yes	4.1	IR
1	250ml Plastic	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	03/31/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	03/30/11 11:46	JDP	57-12-5	
Total Suspended Solids	2	mg/L	1	2540 D	03/30/11 14:00	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	03/31/11 15:34	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	03/31/11 15:34	SLS	7440-38-2	
Barium	0.056	mg/L	0.005	200.8	03/31/11 15:34	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	04/01/11 10:43	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	03/31/11 15:34	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	03/31/11 15:34	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	03/31/11 15:34	SLS	7440-48-4	
Copper	0.007	mg/L	0.004	200.8	03/31/11 15:34	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	03/31/11 15:34	SLS	7439-92-1	
Manganese	0.176	mg/L	0.005	200.8	03/31/11 15:34	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	03/31/11 15:34	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	03/31/11 15:34	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	03/31/11 15:34	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	03/31/11 15:34	SLS	7440-28-0	
Vanadium	Not detected	mg/L	0.004	200.8	03/31/11 15:34	SLS	7440-62-2	
Zinc	0.007	mg/L	0.005	200.8	03/31/11 15:34	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	03/28/11 14:59	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	03/28/11 14:59	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	03/28/11 14:59	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	03/28/11 14:59	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	03/28/11 14:59	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	03/28/11 14:59	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	03/28/11 14:59	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	03/28/11 14:59	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	03/28/11 14:59	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	03/28/11 14:59	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	75-35-4	

Lab Sample ID: S48172.05 (continued)
Sample Tag: MP006_03242011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Methylene chloride	Not detected	ug/L	5	8260B	03/28/11 14:59	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	03/28/11 14:59	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	03/28/11 14:59	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	03/28/11 14:59	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	03/28/11 14:59	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	03/28/11 14:59	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	03/28/11 14:59	WAT		
o-Xylene	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	03/28/11 14:59	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	03/28/11 14:59	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	03/28/11 14:59	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	03/28/11 14:59	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	03/28/11 14:59	WAT	96-12-8	

Lab Sample ID: S48172.05 (continued)
Sample Tag: MP006_03242011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	03/28/11 14:59	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	03/28/11 14:59	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	03/28/11 14:59	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	03/28/11 14:59	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S48172.06
Sample Tag: MP006_03242011 MS
Collected Date/Time: 03/24/2011 11:15
Matrix: Liquid
COC Reference: 60498

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.1	IR
1	125ml Plastic	HNO3	Yes	4.1	IR
1	125ml Plastic	NaOH	Yes	4.1	IR
1	250ml Plastic	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	03/31/11 01:00	SLR		
Inorganics								
Cyanide	0.086	mg/L	0.005	335.4/4500-CN-E	03/30/11 11:48	JDP	57-12-5	
Total Suspended Solids	1	mg/L	1	2540 D	03/30/11 14:00	DJS		
Metals								
Antimony	0.264	mg/L	0.005	200.8	03/31/11 15:39	SLS	7440-36-0	
Arsenic	0.268	mg/L	0.002	200.8	03/31/11 15:39	SLS	7440-38-2	
Barium	0.322	mg/L	0.005	200.8	03/31/11 15:39	SLS	7440-39-3	
Beryllium	0.290	mg/L	0.001	200.8	04/01/11 10:45	SLS	7440-41-7	
Cadmium	0.2620	mg/L	0.0005	200.8	03/31/11 15:39	SLS	7440-43-9	
Chromium	0.273	mg/L	0.005	200.8	03/31/11 15:39	SLS	7440-47-3	
Cobalt	0.265	mg/L	0.005	200.8	03/31/11 15:39	SLS	7440-48-4	
Copper	0.265	mg/L	0.004	200.8	03/31/11 15:39	SLS	7440-50-8	
Lead	0.255	mg/L	0.003	200.8	03/31/11 15:39	SLS	7439-92-1	
Manganese	0.444	mg/L	0.005	200.8	03/31/11 15:39	SLS	7439-96-5	
Nickel	0.263	mg/L	0.005	200.8	03/31/11 15:39	SLS	7440-02-0	
Selenium	0.268	mg/L	0.005	200.8	03/31/11 15:39	SLS	7782-49-2	
Silver	0.2578	mg/L	0.0005	200.8	03/31/11 15:39	SLS	7440-22-4	
Thallium	0.266	mg/L	0.001	200.8	03/31/11 15:39	SLS	7440-28-0	
Vanadium	0.277	mg/L	0.004	200.8	03/31/11 15:39	SLS	7440-62-2	
Zinc	0.272	mg/L	0.005	200.8	03/31/11 15:39	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	56	ug/L	10	8260B	03/28/11 19:49	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	8260B	03/28/11 19:49	WAT	67-64-1	1
Methyl iodide	50	ug/L	1	8260B	03/28/11 19:49	WAT	74-88-4	1
Carbon disulfide	54	ug/L	5	8260B	03/28/11 19:49	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	59	ug/L	5	8260B	03/28/11 19:49	WAT	1634-04-4	1
Acrylonitrile	54	ug/L	2	8260B	03/28/11 19:49	WAT	107-13-1	1
2-Butanone (MEK)	35	ug/L	25	8260B	03/28/11 19:49	WAT	78-93-3	1
Dichlorodifluoromethane	56	ug/L	5	8260B	03/28/11 19:49	WAT	75-71-8	1
Chloromethane	55	ug/L	5	8260B	03/28/11 19:49	WAT	74-87-3	1
Vinyl chloride	52	ug/L	1	8260B	03/28/11 19:49	WAT	75-01-4	1
Bromomethane	57	ug/L	5	8260B	03/28/11 19:49	WAT	74-83-9	1
Chloroethane	60	ug/L	5	8260B	03/28/11 19:49	WAT	75-00-3	1
Trichlorofluoromethane	53	ug/L	1	8260B	03/28/11 19:49	WAT	75-69-4	1

1-Sample spiked at 50ug/l

Lab Sample ID: S48172.06 (continued)
Sample Tag: MP006_03242011 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	54	ug/L	1	8260B	03/28/11 19:49	WAT	75-35-4	1
Methylene chloride	55	ug/L	5	8260B	03/28/11 19:49	WAT	75-09-2	1
trans-1,2-Dichloroethene	55	ug/L	1	8260B	03/28/11 19:49	WAT	156-60-5	1
1,1-Dichloroethane	55	ug/L	1	8260B	03/28/11 19:49	WAT	75-34-3	1
cis-1,2-Dichloroethene	56	ug/L	1	8260B	03/28/11 19:49	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	8260B	03/28/11 19:49	WAT	109-99-9	1
Chloroform	57	ug/L	1	8260B	03/28/11 19:49	WAT	67-66-3	1
Bromochloromethane	56	ug/L	1	8260B	03/28/11 19:49	WAT	74-97-5	1
1,1,1-Trichloroethane	55	ug/L	1	8260B	03/28/11 19:49	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	03/28/11 19:49	WAT	108-10-1	1
2-Hexanone	Not detected	ug/L	50	8260B	03/28/11 19:49	WAT	591-78-6	1
Carbon tetrachloride	49	ug/L	1	8260B	03/28/11 19:49	WAT	56-23-5	1
Benzene	53	ug/L	1	8260B	03/28/11 19:49	WAT	71-43-2	1
1,2-Dichloroethane	54	ug/L	1	8260B	03/28/11 19:49	WAT	107-06-2	1
Trichloroethene	51	ug/L	1	8260B	03/28/11 19:49	WAT	79-01-6	1
1,2-Dichloropropane	56	ug/L	1	8260B	03/28/11 19:49	WAT	78-87-5	1
Bromodichloromethane	55	ug/L	1	8260B	03/28/11 19:49	WAT	75-27-4	1
Dibromomethane	53	ug/L	5	8260B	03/28/11 19:49	WAT	74-95-3	1
cis-1,3-Dichloropropene	49	ug/L	1	8260B	03/28/11 19:49	WAT	10061-01-5	1
Toluene	52	ug/L	1	8260B	03/28/11 19:49	WAT	108-88-3	1
trans-1,3-Dichloropropene	48	ug/L	1	8260B	03/28/11 19:49	WAT	10061-02-6	1
1,1,2-Trichloroethane	55	ug/L	1	8260B	03/28/11 19:49	WAT	79-00-5	1
Tetrachloroethene	49	ug/L	1	8260B	03/28/11 19:49	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	49	ug/L	1	8260B	03/28/11 19:49	WAT	110-57-6	1
Dibromochloromethane	42	ug/L	5	8260B	03/28/11 19:49	WAT	124-48-1	1
1,2-Dibromoethane	50	ug/L	1	8260B	03/28/11 19:49	WAT	106-93-4	1
Chlorobenzene	48	ug/L	1	8260B	03/28/11 19:49	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	51	ug/L	1	8260B	03/28/11 19:49	WAT	630-20-6	1
Ethylbenzene	49	ug/L	1	8260B	03/28/11 19:49	WAT	100-41-4	1
p,m-Xylene	97	ug/L	2	8260B	03/28/11 19:49	WAT		1
o-Xylene	51	ug/L	1	8260B	03/28/11 19:49	WAT	95-47-6	1
Styrene	40	ug/L	1	8260B	03/28/11 19:49	WAT	100-42-5	1
Isopropylbenzene	47	ug/L	5	8260B	03/28/11 19:49	WAT	98-82-8	1
Bromoform	42	ug/L	1	8260B	03/28/11 19:49	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	52	ug/L	1	8260B	03/28/11 19:49	WAT	79-34-5	1
1,2,3-Trichloropropane	51	ug/L	1	8260B	03/28/11 19:49	WAT	96-18-4	1
n-Propylbenzene	51	ug/L	1	8260B	03/28/11 19:49	WAT	103-65-1	1
Bromobenzene	52	ug/L	1	8260B	03/28/11 19:49	WAT	108-86-1	1
1,3,5-Trimethylbenzene	49	ug/L	1	8260B	03/28/11 19:49	WAT	108-67-8	1
tert-Butylbenzene	53	ug/L	1	8260B	03/28/11 19:49	WAT	98-06-6	1
1,2,4-Trimethylbenzene	51	ug/L	1	8260B	03/28/11 19:49	WAT	95-63-6	1
sec-Butylbenzene	51	ug/L	1	8260B	03/28/11 19:49	WAT	135-98-8	1
p-Isopropyltoluene	53	ug/L	5	8260B	03/28/11 19:49	WAT	99-87-6	1
1,3-Dichlorobenzene	51	ug/L	1	8260B	03/28/11 19:49	WAT	541-73-1	1
1,4-Dichlorobenzene	50	ug/L	1	8260B	03/28/11 19:49	WAT	106-46-7	1
1,2-Dichlorobenzene	52	ug/L	1	8260B	03/28/11 19:49	WAT	95-50-1	1
1,2,3-Trimethylbenzene	50	ug/L	1	8260B	03/28/11 19:49	WAT	526-73-8	1
n-Butylbenzene	53	ug/L	1	8260B	03/28/11 19:49	WAT	104-51-8	1

1-Sample spiked at 50ug/l

Lab Sample ID: S48172.06 (continued)
Sample Tag: MP006_03242011 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Hexachloroethane	41	ug/L	5	8260B	03/28/11 19:49	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	45	ug/L	5	8260B	03/28/11 19:49	WAT	96-12-8	1
1,2,4-Trichlorobenzene	55	ug/L	5	8260B	03/28/11 19:49	WAT	120-82-1	1
1,2,3-Trichlorobenzene	57	ug/L	5	8260B	03/28/11 19:49	WAT	87-61-6	1
Naphthalene	59	ug/L	5	8260B	03/28/11 19:49	WAT	91-20-3	1
2-Methylnaphthalene	56	ug/L	5	8260B	03/28/11 19:49	WAT	91-57-6	1

1-Sample spiked at 50ug/l

Analytical Laboratory Report

Lab Sample ID: S48172.07
Sample Tag: MP006_03242011 MSD
Collected Date/Time: 03/24/2011 11:15
Matrix: Liquid
COC Reference: 60498

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.1	IR
1	125ml Plastic	HNO3	Yes	4.1	IR
1	125ml Plastic	NaOH	Yes	4.1	IR
1	250ml Plastic	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	03/31/11 01:00	SLR		
Inorganics								
Cyanide	0.085	mg/L	0.005	335.4/4500-CN-E	03/30/11 11:50	JDP	57-12-5	
Total Suspended Solids	2	mg/L	1	2540 D	03/30/11 14:00	DJS		
Metals								
Antimony	0.264	mg/L	0.005	200.8	03/31/11 15:43	SLS	7440-36-0	
Arsenic	0.265	mg/L	0.002	200.8	03/31/11 15:43	SLS	7440-38-2	
Barium	0.322	mg/L	0.005	200.8	03/31/11 15:43	SLS	7440-39-3	
Beryllium	0.285	mg/L	0.001	200.8	04/01/11 10:47	SLS	7440-41-7	
Cadmium	0.2564	mg/L	0.0005	200.8	03/31/11 15:43	SLS	7440-43-9	
Chromium	0.268	mg/L	0.005	200.8	03/31/11 15:43	SLS	7440-47-3	
Cobalt	0.261	mg/L	0.005	200.8	03/31/11 15:43	SLS	7440-48-4	
Copper	0.260	mg/L	0.004	200.8	03/31/11 15:43	SLS	7440-50-8	
Lead	0.255	mg/L	0.003	200.8	03/31/11 15:43	SLS	7439-92-1	
Manganese	0.446	mg/L	0.005	200.8	03/31/11 15:43	SLS	7439-96-5	
Nickel	0.263	mg/L	0.005	200.8	03/31/11 15:43	SLS	7440-02-0	
Selenium	0.265	mg/L	0.005	200.8	03/31/11 15:43	SLS	7782-49-2	
Silver	0.2556	mg/L	0.0005	200.8	03/31/11 15:43	SLS	7440-22-4	
Thallium	0.265	mg/L	0.001	200.8	03/31/11 15:43	SLS	7440-28-0	
Vanadium	0.273	mg/L	0.004	200.8	03/31/11 15:43	SLS	7440-62-2	
Zinc	0.273	mg/L	0.005	200.8	03/31/11 15:43	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	58	ug/L	10	8260B	03/28/11 20:07	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	8260B	03/28/11 20:07	WAT	67-64-1	1
Methyl iodide	55	ug/L	1	8260B	03/28/11 20:07	WAT	74-88-4	1
Carbon disulfide	60	ug/L	5	8260B	03/28/11 20:07	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	63	ug/L	5	8260B	03/28/11 20:07	WAT	1634-04-4	1
Acrylonitrile	56	ug/L	2	8260B	03/28/11 20:07	WAT	107-13-1	1
2-Butanone (MEK)	38	ug/L	25	8260B	03/28/11 20:07	WAT	78-93-3	1
Dichlorodifluoromethane	61	ug/L	5	8260B	03/28/11 20:07	WAT	75-71-8	1
Chloromethane	59	ug/L	5	8260B	03/28/11 20:07	WAT	74-87-3	1
Vinyl chloride	57	ug/L	1	8260B	03/28/11 20:07	WAT	75-01-4	1
Bromomethane	60	ug/L	5	8260B	03/28/11 20:07	WAT	74-83-9	1
Chloroethane	64	ug/L	5	8260B	03/28/11 20:07	WAT	75-00-3	1
Trichlorofluoromethane	57	ug/L	1	8260B	03/28/11 20:07	WAT	75-69-4	1

1-Sample spiked at 50ug/l

Lab Sample ID: S48172.07 (continued)
Sample Tag: MP006_03242011 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	59	ug/L	1	8260B	03/28/11 20:07	WAT	75-35-4	1
Methylene chloride	60	ug/L	5	8260B	03/28/11 20:07	WAT	75-09-2	1
trans-1,2-Dichloroethene	60	ug/L	1	8260B	03/28/11 20:07	WAT	156-60-5	1
1,1-Dichloroethane	60	ug/L	1	8260B	03/28/11 20:07	WAT	75-34-3	1
cis-1,2-Dichloroethene	61	ug/L	1	8260B	03/28/11 20:07	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	8260B	03/28/11 20:07	WAT	109-99-9	1
Chloroform	62	ug/L	1	8260B	03/28/11 20:07	WAT	67-66-3	1
Bromochloromethane	61	ug/L	1	8260B	03/28/11 20:07	WAT	74-97-5	1
1,1,1-Trichloroethane	61	ug/L	1	8260B	03/28/11 20:07	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	03/28/11 20:07	WAT	108-10-1	1
2-Hexanone	Not detected	ug/L	50	8260B	03/28/11 20:07	WAT	591-78-6	1
Carbon tetrachloride	54	ug/L	1	8260B	03/28/11 20:07	WAT	56-23-5	1
Benzene	57	ug/L	1	8260B	03/28/11 20:07	WAT	71-43-2	1
1,2-Dichloroethane	57	ug/L	1	8260B	03/28/11 20:07	WAT	107-06-2	1
Trichloroethene	55	ug/L	1	8260B	03/28/11 20:07	WAT	79-01-6	1
1,2-Dichloropropane	60	ug/L	1	8260B	03/28/11 20:07	WAT	78-87-5	1
Bromodichloromethane	60	ug/L	1	8260B	03/28/11 20:07	WAT	75-27-4	1
Dibromomethane	56	ug/L	5	8260B	03/28/11 20:07	WAT	74-95-3	1
cis-1,3-Dichloropropene	53	ug/L	1	8260B	03/28/11 20:07	WAT	10061-01-5	1
Toluene	56	ug/L	1	8260B	03/28/11 20:07	WAT	108-88-3	1
trans-1,3-Dichloropropene	52	ug/L	1	8260B	03/28/11 20:07	WAT	10061-02-6	1
1,1,2-Trichloroethane	56	ug/L	1	8260B	03/28/11 20:07	WAT	79-00-5	1
Tetrachloroethene	53	ug/L	1	8260B	03/28/11 20:07	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	52	ug/L	1	8260B	03/28/11 20:07	WAT	110-57-6	1
Dibromochloromethane	47	ug/L	5	8260B	03/28/11 20:07	WAT	124-48-1	1
1,2-Dibromoethane	54	ug/L	1	8260B	03/28/11 20:07	WAT	106-93-4	1
Chlorobenzene	52	ug/L	1	8260B	03/28/11 20:07	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	57	ug/L	1	8260B	03/28/11 20:07	WAT	630-20-6	1
Ethylbenzene	54	ug/L	1	8260B	03/28/11 20:07	WAT	100-41-4	1
p,m-Xylene	107	ug/L	2	8260B	03/28/11 20:07	WAT		1
o-Xylene	56	ug/L	1	8260B	03/28/11 20:07	WAT	95-47-6	1
Styrene	44	ug/L	1	8260B	03/28/11 20:07	WAT	100-42-5	1
Isopropylbenzene	51	ug/L	5	8260B	03/28/11 20:07	WAT	98-82-8	1
Bromoform	48	ug/L	1	8260B	03/28/11 20:07	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	55	ug/L	1	8260B	03/28/11 20:07	WAT	79-34-5	1
1,2,3-Trichloropropane	54	ug/L	1	8260B	03/28/11 20:07	WAT	96-18-4	1
n-Propylbenzene	56	ug/L	1	8260B	03/28/11 20:07	WAT	103-65-1	1
Bromobenzene	56	ug/L	1	8260B	03/28/11 20:07	WAT	108-86-1	1
1,3,5-Trimethylbenzene	53	ug/L	1	8260B	03/28/11 20:07	WAT	108-67-8	1
tert-Butylbenzene	57	ug/L	1	8260B	03/28/11 20:07	WAT	98-06-6	1
1,2,4-Trimethylbenzene	55	ug/L	1	8260B	03/28/11 20:07	WAT	95-63-6	1
sec-Butylbenzene	54	ug/L	1	8260B	03/28/11 20:07	WAT	135-98-8	1
p-Isopropyltoluene	56	ug/L	5	8260B	03/28/11 20:07	WAT	99-87-6	1
1,3-Dichlorobenzene	55	ug/L	1	8260B	03/28/11 20:07	WAT	541-73-1	1
1,4-Dichlorobenzene	55	ug/L	1	8260B	03/28/11 20:07	WAT	106-46-7	1
1,2-Dichlorobenzene	56	ug/L	1	8260B	03/28/11 20:07	WAT	95-50-1	1
1,2,3-Trimethylbenzene	54	ug/L	1	8260B	03/28/11 20:07	WAT	526-73-8	1
n-Butylbenzene	56	ug/L	1	8260B	03/28/11 20:07	WAT	104-51-8	1

1-Sample spiked at 50ug/l

Lab Sample ID: S48172.07 (continued)
Sample Tag: MP006_03242011 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Hexachloroethane	46	ug/L	5	8260B	03/28/11 20:07	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	47	ug/L	5	8260B	03/28/11 20:07	WAT	96-12-8	1
1,2,4-Trichlorobenzene	59	ug/L	5	8260B	03/28/11 20:07	WAT	120-82-1	1
1,2,3-Trichlorobenzene	61	ug/L	5	8260B	03/28/11 20:07	WAT	87-61-6	1
Naphthalene	62	ug/L	5	8260B	03/28/11 20:07	WAT	91-20-3	1
2-Methylnaphthalene	63	ug/L	5	8260B	03/28/11 20:07	WAT	91-57-6	1

1-Sample spiked at 50ug/l

Analytical Laboratory Report

Lab Sample ID: S48172.08
Sample Tag: MP009_03242011
Collected Date/Time: 03/24/2011 11:50
Matrix: Liquid
COC Reference: 60498

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.1	IR
1	125ml Plastic	HNO3	Yes	4.1	IR
1	125ml Plastic	NaOH	Yes	4.1	IR
1	250ml Plastic	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	03/31/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	03/30/11 11:54	JDP	57-12-5	
Total Suspended Solids	91	mg/L	1	2540 D	03/30/11 14:00	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	03/31/11 15:11	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	03/31/11 15:11	SLS	7440-38-2	
Barium	0.093	mg/L	0.005	200.8	03/31/11 15:11	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	04/01/11 10:34	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	03/31/11 15:11	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	03/31/11 15:11	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	03/31/11 15:11	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	03/31/11 15:11	SLS	7440-50-8	
Lead	0.007	mg/L	0.003	200.8	03/31/11 15:11	SLS	7439-92-1	
Manganese	0.198	mg/L	0.005	200.8	03/31/11 15:11	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	03/31/11 15:11	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	03/31/11 15:11	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	03/31/11 15:11	SLS	7440-22-4	
Thallium	0.0011	mg/L	0.001	200.8	03/31/11 15:11	SLS	7440-28-0	
Vanadium	Not detected	mg/L	0.004	200.8	03/31/11 15:11	SLS	7440-62-2	
Zinc	0.029	mg/L	0.005	200.8	03/31/11 15:11	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	03/25/11 17:16	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	03/25/11 17:16	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	03/25/11 17:16	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	03/25/11 17:16	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	03/25/11 17:16	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	03/25/11 17:16	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	03/25/11 17:16	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	03/25/11 17:16	WAT	74-87-3	
Vinyl chloride	1	ug/L	1	8260B	03/25/11 17:16	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	03/25/11 17:16	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	03/25/11 17:16	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	75-35-4	

Lab Sample ID: S48172.08 (continued)
Sample Tag: MP009_03242011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Methylene chloride	Not detected	ug/L	5	8260B	03/25/11 17:16	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	75-34-3	
cis-1,2-Dichloroethene	11	ug/L	1	8260B	03/25/11 17:16	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	03/25/11 17:16	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	03/25/11 17:16	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	03/25/11 17:16	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	107-06-2	
Trichloroethene	8	ug/L	1	8260B	03/25/11 17:16	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	03/25/11 17:16	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	03/25/11 17:16	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	03/25/11 17:16	WAT		
o-Xylene	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	03/25/11 17:16	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	03/25/11 17:16	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	03/25/11 17:16	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	03/25/11 17:16	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	03/25/11 17:16	WAT	96-12-8	

Lab Sample ID: S48172.08 (continued)
Sample Tag: MP009_03242011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	03/25/11 17:16	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	03/25/11 17:16	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	03/25/11 17:16	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	03/25/11 17:16	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S48172.09
Sample Tag: MP010_03242011
Collected Date/Time: 03/24/2011 11:35
Matrix: Liquid
COC Reference: 60498

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.1	IR
1	125ml Plastic	HNO3	Yes	4.1	IR
1	125ml Plastic	NaOH	Yes	4.1	IR
1	250ml Plastic	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	03/31/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	03/30/11 11:56	JDP	57-12-5	
Total Suspended Solids	4	mg/L	1	2540 D	03/30/11 14:00	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	03/31/11 15:16	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	03/31/11 15:16	SLS	7440-38-2	
Barium	0.085	mg/L	0.005	200.8	03/31/11 15:16	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	04/01/11 10:36	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	03/31/11 15:16	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	03/31/11 15:16	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	03/31/11 15:16	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	03/31/11 15:16	SLS	7440-50-8	
Lead	0.004	mg/L	0.003	200.8	03/31/11 15:16	SLS	7439-92-1	
Manganese	0.078	mg/L	0.005	200.8	03/31/11 15:16	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	03/31/11 15:16	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	03/31/11 15:16	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	03/31/11 15:16	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	03/31/11 15:16	SLS	7440-28-0	
Vanadium	Not detected	mg/L	0.004	200.8	03/31/11 15:16	SLS	7440-62-2	
Zinc	0.012	mg/L	0.005	200.8	03/31/11 15:16	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	03/25/11 17:34	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	03/25/11 17:34	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	03/25/11 17:34	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	03/25/11 17:34	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	03/25/11 17:34	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	03/25/11 17:34	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	03/25/11 17:34	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	03/25/11 17:34	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	03/25/11 17:34	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	03/25/11 17:34	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	75-35-4	

Lab Sample ID: S48172.09 (continued)
Sample Tag: MP010_03242011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Methylene chloride	Not detected	ug/L	5	8260B	03/25/11 17:34	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	75-34-3	
cis-1,2-Dichloroethene	2	ug/L	1	8260B	03/25/11 17:34	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	03/25/11 17:34	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	03/25/11 17:34	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	03/25/11 17:34	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	03/25/11 17:34	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	03/25/11 17:34	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	03/25/11 17:34	WAT		
o-Xylene	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	03/25/11 17:34	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	03/25/11 17:34	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	03/25/11 17:34	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	03/25/11 17:34	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	03/25/11 17:34	WAT	96-12-8	

Lab Sample ID: S48172.09 (continued)
Sample Tag: MP010_03242011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	03/25/11 17:34	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	03/25/11 17:34	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	03/25/11 17:34	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	03/25/11 17:34	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S48172.10
Sample Tag: Duplicate_03242011
Collected Date/Time: 03/24/2011 09:15
Matrix: Liquid
COC Reference: 60498

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.1	IR
1	125ml Plastic	HNO3	Yes	4.1	IR
1	125ml Plastic	NaOH	Yes	4.1	IR
1	250ml Plastic	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	03/31/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	03/30/11 11:58	JDP	57-12-5	
Total Suspended Solids	13	mg/L	1	2540 D	03/30/11 14:00	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	03/31/11 15:20	SLS	7440-36-0	
Arsenic	0.007	mg/L	0.002	200.8	03/31/11 15:20	SLS	7440-38-2	
Barium	0.234	mg/L	0.005	200.8	03/31/11 15:20	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	04/01/11 10:38	SLS	7440-41-7	
Cadmium	0.0015	mg/L	0.0005	200.8	03/31/11 15:20	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	03/31/11 15:20	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	03/31/11 15:20	SLS	7440-48-4	
Copper	0.008	mg/L	0.004	200.8	03/31/11 15:20	SLS	7440-50-8	
Lead	0.013	mg/L	0.003	200.8	03/31/11 15:20	SLS	7439-92-1	
Manganese	0.394	mg/L	0.005	200.8	03/31/11 15:20	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	03/31/11 15:20	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	03/31/11 15:20	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	03/31/11 15:20	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	03/31/11 15:20	SLS	7440-28-0	
Vanadium	Not detected	mg/L	0.004	200.8	03/31/11 15:20	SLS	7440-62-2	
Zinc	0.028	mg/L	0.005	200.8	03/31/11 15:20	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	03/25/11 17:52	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	03/25/11 17:52	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	03/25/11 17:52	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	03/25/11 17:52	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	03/25/11 17:52	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	03/25/11 17:52	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	03/25/11 17:52	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	03/25/11 17:52	WAT	74-87-3	
Vinyl chloride	1	ug/L	1	8260B	03/25/11 17:52	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	03/25/11 17:52	WAT	74-83-9	
Chloroethane	14	ug/L	5	8260B	03/25/11 17:52	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	75-35-4	

Lab Sample ID: S48172.10 (continued)
Sample Tag: Duplicate_03242011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Methylene chloride	Not detected	ug/L	5	8260B	03/25/11 17:52	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	156-60-5	
1,1-Dichloroethane	12	ug/L	1	8260B	03/25/11 17:52	WAT	75-34-3	
cis-1,2-Dichloroethene	6	ug/L	1	8260B	03/25/11 17:52	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	03/25/11 17:52	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	74-97-5	
1,1,1-Trichloroethane	6	ug/L	1	8260B	03/25/11 17:52	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	03/25/11 17:52	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	03/25/11 17:52	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	107-06-2	
Trichloroethene	2	ug/L	1	8260B	03/25/11 17:52	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	03/25/11 17:52	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	03/25/11 17:52	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	03/25/11 17:52	WAT		
o-Xylene	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	03/25/11 17:52	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	03/25/11 17:52	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	03/25/11 17:52	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	03/25/11 17:52	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	03/25/11 17:52	WAT	96-12-8	

Lab Sample ID: S48172.10 (continued)
Sample Tag: Duplicate_03242011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	03/25/11 17:52	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	03/25/11 17:52	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	03/25/11 17:52	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	03/25/11 17:52	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S48172.11
Sample Tag: Field Blank_03242011
Collected Date/Time: 03/24/2011 13:40
Matrix: Liquid
COC Reference: 60498

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.1	IR
1	125ml Plastic	HNO3	Yes	4.1	IR
1	125ml Plastic	NaOH	Yes	4.1	IR
1	250ml Plastic	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	03/31/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	03/30/11 12:02	JDP	57-12-5	
Total Suspended Solids	<1	mg/L	1	2540 D	03/30/11 14:00	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	03/31/11 15:25	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	03/31/11 15:25	SLS	7440-38-2	
Barium	Not detected	mg/L	0.005	200.8	03/31/11 15:25	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	04/01/11 10:40	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	03/31/11 15:25	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	03/31/11 15:25	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	03/31/11 15:25	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	03/31/11 15:25	SLS	7440-50-8	
Lead	0.003	mg/L	0.003	200.8	03/31/11 15:25	SLS	7439-92-1	
Manganese	Not detected	mg/L	0.005	200.8	03/31/11 15:25	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	03/31/11 15:25	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	03/31/11 15:25	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	03/31/11 15:25	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	03/31/11 15:25	SLS	7440-28-0	
Vanadium	Not detected	mg/L	0.004	200.8	03/31/11 15:25	SLS	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	03/31/11 15:25	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	03/25/11 18:10	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	03/25/11 18:10	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	03/25/11 18:10	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	03/25/11 18:10	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	03/25/11 18:10	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	03/25/11 18:10	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	03/25/11 18:10	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	03/25/11 18:10	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	03/25/11 18:10	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	03/25/11 18:10	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	75-35-4	

Lab Sample ID: S48172.11 (continued)
Sample Tag: Field Blank_03242011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Methylene chloride	Not detected	ug/L	5	8260B	03/25/11 18:10	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	03/25/11 18:10	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	03/25/11 18:10	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	03/25/11 18:10	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	03/25/11 18:10	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	03/25/11 18:10	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	03/25/11 18:10	WAT		
o-Xylene	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	03/25/11 18:10	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	03/25/11 18:10	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	03/25/11 18:10	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	03/25/11 18:10	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	03/25/11 18:10	WAT	96-12-8	

Lab Sample ID: S48172.11 (continued)
Sample Tag: Field Blank_03242011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	03/25/11 18:10	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	03/25/11 18:10	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	03/25/11 18:10	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	03/25/11 18:10	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S48172.12
Sample Tag: EB_03242011
Collected Date/Time: 03/24/2011 10:40
Matrix: Liquid
COC Reference: 60498

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.1	IR
1	125ml Plastic	HNO3	Yes	4.1	IR
1	125ml Plastic	NaOH	Yes	4.1	IR
1	250ml Plastic	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	03/31/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	03/30/11 12:04	JDP	57-12-5	
Total Suspended Solids	<1	mg/L	1	2540 D	03/30/11 14:00	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	03/31/11 15:29	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	03/31/11 15:29	SLS	7440-38-2	
Barium	Not detected	mg/L	0.005	200.8	03/31/11 15:29	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	04/01/11 10:41	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	03/31/11 15:29	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	03/31/11 15:29	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	03/31/11 15:29	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	03/31/11 15:29	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	03/31/11 15:29	SLS	7439-92-1	
Manganese	Not detected	mg/L	0.005	200.8	03/31/11 15:29	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	03/31/11 15:29	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	03/31/11 15:29	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	03/31/11 15:29	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	03/31/11 15:29	SLS	7440-28-0	
Vanadium	Not detected	mg/L	0.004	200.8	03/31/11 15:29	SLS	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	03/31/11 15:29	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	03/25/11 18:28	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	03/25/11 18:28	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	03/25/11 18:28	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	03/25/11 18:28	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	03/25/11 18:28	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	03/25/11 18:28	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	03/25/11 18:28	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	03/25/11 18:28	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	03/25/11 18:28	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	03/25/11 18:28	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	75-35-4	

Lab Sample ID: S48172.12 (continued)
Sample Tag: EB_03242011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Methylene chloride	Not detected	ug/L	5	8260B	03/25/11 18:28	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	03/25/11 18:28	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	03/25/11 18:28	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	03/25/11 18:28	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	03/25/11 18:28	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	03/25/11 18:28	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	03/25/11 18:28	WAT		
o-Xylene	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	03/25/11 18:28	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	03/25/11 18:28	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	03/25/11 18:28	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	03/25/11 18:28	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	03/25/11 18:28	WAT	96-12-8	

Lab Sample ID: S48172.12 (continued)
Sample Tag: EB_03242011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	03/25/11 18:28	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	03/25/11 18:28	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	03/25/11 18:28	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	03/25/11 18:28	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S48172.13
Sample Tag: Trip Blank
Collected Date/Time: 03/24/2011 :
Matrix: Liquid
COC Reference: 60498

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	03/28/11 15:17	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	03/28/11 15:17	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	03/28/11 15:17	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	03/28/11 15:17	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	03/28/11 15:17	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	03/28/11 15:17	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	03/28/11 15:17	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	03/28/11 15:17	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	03/28/11 15:17	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	03/28/11 15:17	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	03/28/11 15:17	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	03/28/11 15:17	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	03/28/11 15:17	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	03/28/11 15:17	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	03/28/11 15:17	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	03/28/11 15:17	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	100-41-4	

Lab Sample ID: S48172.13 (continued)
Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
p,m-Xylene	Not detected	ug/L	2	8260B	03/28/11 15:17	WAT		
o-Xylene	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	03/28/11 15:17	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	03/28/11 15:17	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	03/28/11 15:17	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	03/28/11 15:17	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	03/28/11 15:17	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	03/28/11 15:17	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	03/28/11 15:17	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	03/28/11 15:17	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	03/28/11 15:17	WAT	91-57-6	

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
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C.O.C. PAGE # 1 OF 1

60498

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Mike Brennan / Amy Conover / Liz Marsh
COMPANY: ARCADIS
ADDRESS: 10559 Citation Dr Ste 100
CITY: Brighton STATE: MI ZIP CODE: 48116
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: (SEE Contract for Details) QUOTE NO.:

INVOICE TO

CONTACT NAME: Mr. Robert W. Hare ☐ SAME
COMPANY: Motors Liquidation Company
ADDRESS: 401 S. Old Woodward Ave. Ste 370
CITY: Birmingham STATE: MI ZIP CODE: 48009
PHONE NO.: 313-486-2928 FAX NO.: — P.O. NO.: MLT-1295

PROJECT NO./NAME: B0064410.2011.00801
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Tony Maffeo / [signature]

TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☒ OTHER EDD

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

SPECIAL INSTRUCTIONS/NOTES: *Please send Copy of invoice to Micki Maki (ARCADIS)

MERIT LAB NO.	YEAR 11 DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOC	CYANIDE	T. METALS	TSS							SPECIAL INSTRUCTIONS/NOTES
48172.01	3/24	1240	MP001_03242011	L	5	1	2	1		1			X	X	X	X							
02	3/24	0915	MP002_03242011	L	5	1	2	1		1			X	X	X	X							
.03	3/24	0815	MP003_03242011	L	5	1	2	1		1			X	X	X	X							
04	3/24	0900	MP005_03242011	L	5	1	2	1		1			X	X	X	X							
.05/06/07	3/24	1115	MP006_03242011	L	15	3	6	3		3			X	X	X	X							MS/MSD
.08	3/24	1150	MP009_03242011	L	5	1	2	1		1			X	X	X	X							
09	3/24	1135	MP010_03242011	L	5	1	2	1		1			X	X	X	X							
.10	3/24	0915	DUPLICATE_03242011	L	5	1	2	1		1			X	X	X	X							
.11	3/24	1340	FIELD BLANK_03242011	L	5	1	2	1		1			X	X	X	X							
.12	3/24	1040	EB_03242011	L	5	1	2	1		1			X	X	X	X							
.13			TRIP BLANK																				

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
[signature] / ARCADIS	3-24	1400
RECEIVED BY: SIGNATURE/ORGANIZATION [signature]	3-24-11	1400
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
[signature]	3-24-11	1450
RECEIVED BY: SIGNATURE/ORGANIZATION [signature]	3-24-11	1450

SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS

NOTES: TEMP. ON ARRIVAL 4.1

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Analytical Laboratory Report

Report ID: S48223.01(01)
Generated on 04/05/2011

Report to

Attention: Mike Brennan/ Liz Marsh/Amy C
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S48223.01
Project: B0064410.4010.00005
Collected Date: 03/29/2011
Submitted Date/Time: 03/31/2011 14:30
Sampled by: Corri Zilio
P.O. #: OPERATIONAL

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (1 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S48223.01	Outfall 003A (032911)	Liquid	03/29/2011 13:00

Analytical Laboratory Report

Lab Sample ID: S48223.01
Sample Tag: Outfall 003A (032911)
Collected Date/Time: 03/29/2011 13:00
Matrix: Liquid
COC Reference: 61201

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	04/04/11 19:41	EMR		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	04/05/11 15:31	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	04/05/11 15:31	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	04/05/11 15:31	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	04/05/11 15:31	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	04/05/11 15:31	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	04/05/11 15:31	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	04/05/11 15:31	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	04/05/11 15:31	JANB	1336-36-3	

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Phone (517) 332-0167 Fax (517) 332-6333
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C.O.C. PAGE # 1 OF 1

61201

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Mike Brennan/Amy Conover/Liz Marsh
COMPANY: ARCADIS
ADDRESS: 10559 Citation Drive Ste 100
CITY: Brighton STATE: MI ZIP CODE: 48116
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: (See Contract For Details) QUOTE NO.:

INVOICE TO

CONTACT NAME: Mr. Robert W. Hun ☐ SAME
COMPANY: Motors Liquidation Company
ADDRESS: 401 S. Old Woodward Ave Ste 370
CITY: Birmingham STATE: MI ZIP CODE: 48009
PHONE NO.: 313-486-2928 FAX NO.: — P.O. NO.: MLT-1295

PROJECT NO./NAME: 4010. B0064410.2011.00005 / Flint NAO
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Corri Zilio/Corri Zilio

TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☒ OTHER EDD

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

SPECIAL INSTRUCTIONS/NOTES: * Please send a copy of invoice to Micki Maki (ARCADIS)

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Total PCB										
48223.01	3/29/11	1300	OUTFALL 003A (032911)	L	2	X							X										3/28-3/29

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
Corri Zilio/ARCADIS		
RECEIVED BY: SIGNATURE/ORGANIZATION	3-31-11	1930
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
	3-31-11	1930
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME
Andrew Bell	31 MARCH	1930

SEAL NO.: SEAL INTACT YES ☐ NO ☐ INITIALS:
SEAL NO.: SEAL INTACT YES ☐ NO ☐ INITIALS:
NOTES: TEMP. ON ARRIVAL 4.1

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Analytical Laboratory Report

Report ID: S48224.01(01)
Generated on 04/05/2011

Report to

Attention: Mike Brennan/ Liz Marsh/Amy C
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S48224.01
Project: B0064410.2010.00801
Collected Date: 03/30/2011
Submitted Date/Time: 03/31/2011 14:30
Sampled by: Corri Zilio
P.O. #: B0064410.2010.0

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (1 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S48224.01	Outfall 005 (033011)	Liquid	03/30/2011 15:30

Analytical Laboratory Report

Lab Sample ID: S48224.01
Sample Tag: Outfall 005 (033011)
Collected Date/Time: 03/30/2011 15:30
Matrix: Liquid
COC Reference: 61202

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	04/04/11 19:41	EMR		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	04/05/11 15:41	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	04/05/11 15:41	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	04/05/11 15:41	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	04/05/11 15:41	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	04/05/11 15:41	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	04/05/11 15:41	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	04/05/11 15:41	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	04/05/11 15:41	JANB	1336-36-3	

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

61202

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Mike Brennan / Amy Conover / Liz Marsh
COMPANY: ARCADIS
ADDRESS: 10559 Citation Drive Suite 100
CITY: Brighton STATE: MI ZIP CODE: 48116
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: (See Contract For Details) QUOTE NO.:

INVOICE TO

CONTACT NAME: Mr. Robert W. Hare ☐ SAME
COMPANY: Motors Liquidation Company
ADDRESS: 401 S. Woodward Ave Ste 370
CITY: Birmingham STATE: MI ZIP CODE: 48009
PHONE NO.: 313-486-2928 FAX NO.: — P.O. NO.: MLT-1295

PROJECT NO./NAME: B0064410.4010.00801 / Flint NAO
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Corri Zilio / Corri Zilio
TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER
DELIVERABLES REQUIRED: ☐ STANDARD ☐ LEVEL II ☒ LEVEL III ☒ OTHER EDD

MATRIX CODE: GW=GROUNDWATER SL=SLUDGE WW=WASTEWATER O=OIL S=SOIL A=AIR L=LIQUID W=WASTE SD=SOLID M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCL	HNO_3	H_2SO_4	NaOH	NaOH	OTHER	Total PCB	SPECIAL INSTRUCTIONS/NOTES
48224.01	3/30/11	1530	OUTFALL 005 (033011)	L	2	X							X	3/29/11 - 3/30/11

* Please send a copy of invoice to Micki Maki (ARCADIS)

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
Corri Zilio / ARCADIS		
RECEIVED BY: SIGNATURE/ORGANIZATION	3-31-11	930
RELINQUISHED BY: SIGNATURE/ORGANIZATION		
RECEIVED BY: SIGNATURE/ORGANIZATION		

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
	3-31-11	1430
RECEIVED BY: SIGNATURE/ORGANIZATION	31 MAR 11	1430

SEAL NO. / SEAL INTACT YES ☐ NO ☐ / INITIALS
SEAL NO. / SEAL INTACT YES ☐ NO ☐ / INITIALS
NOTES: TEMP. ON ARRIVAL 4.1

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Analytical Laboratory Report

Report ID: S48565.01(01)
Generated on 05/06/2011

Report to

Attention: Mike Brennan
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S48565.01-S48565.13
Project: B0064410.2011.00801
Collected Date: 04/29/2011
Submitted Date/Time: 04/29/2011 14:10
Sampled by: Corri Zilio
P.O. #: B0064410.2011.0

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (13 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S48565.01	FB_04292011	Liquid	04/29/2011 07:40
S48565.02	MP013_04292011	Liquid	04/29/2011 08:45
S48565.03	MP010_04292011	Liquid	04/29/2011 09:00
S48565.04	MP006_04292011	Liquid	04/29/2011 09:25
S48565.05	MP002_04292011	Liquid	04/29/2011 10:30
S48565.06	MP002_04292011 MS	Liquid	04/29/2011 10:30
S48565.07	MP002_04292011 MSD	Liquid	04/29/2011 10:30
S48565.08	MP005_04292011	Liquid	04/29/2011 10:50
S48565.09	MP003_04292011	Liquid	04/29/2011 11:10
S48565.10	MP007_04292011	Liquid	04/29/2011 11:45
S48565.11	EQB_04292011	Liquid	04/29/2011 12:00
S48565.12	DUP-01_04292011	Liquid	04/29/2011
S48565.13	Trip Blank	Liquid	04/29/2011

Analytical Laboratory Report

Lab Sample ID: S48565.01
Sample Tag: FB_04292011
Collected Date/Time: 04/29/2011 07:40
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	Not detected	ng/L	0.51	1631E	05/05/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48565.02
Sample Tag: MP013_04292011
Collected Date/Time: 04/29/2011 08:45
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	LL Hg Kit	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level Dissolved	0.94	ng/L	0.51	1631E	05/05/11 12:00	Fiber	7439-97-6	O
Mercury, Low Level	0.67	ng/L	0.51	1631E	05/05/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48565.03
Sample Tag: MP010_04292011
Collected Date/Time: 04/29/2011 09:00
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	100	ng/L	20	1631E	05/05/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48565.04
Sample Tag: MP006_04292011
Collected Date/Time: 04/29/2011 09:25
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	3.7	ng/L	0.51	1631E	05/05/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48565.05
Sample Tag: MP002_04292011
Collected Date/Time: 04/29/2011 10:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	4.6	ng/L	0.51	1631E	05/05/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48565.06
Sample Tag: MP002_04292011 MS
Collected Date/Time: 04/29/2011 10:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	10	ng/L	1.0	1631E	05/05/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48565.07
Sample Tag: MP002_04292011 MSD
Collected Date/Time: 04/29/2011 10:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	12	ng/L	1.0	1631E	05/05/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48565.08
Sample Tag: MP005_04292011
Collected Date/Time: 04/29/2011 10:50
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	8.1	ng/L	0.51	1631E	05/05/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48565.09
Sample Tag: MP003_04292011
Collected Date/Time: 04/29/2011 11:10
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	6.3	ng/L	0.51	1631E	05/05/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48565.10
Sample Tag: MP007_04292011
Collected Date/Time: 04/29/2011 11:45
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	5.7	ng/L	0.51	1631E	05/05/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48565.11
Sample Tag: EQB_04292011
Collected Date/Time: 04/29/2011 12:00
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	0.73	ng/L	0.51	1631E	05/05/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48565.12
Sample Tag: DUP-01_04292011
Collected Date/Time: 04/29/2011 :
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	3.2	ng/L	0.51	1631E	05/05/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48565.13
Sample Tag: Trip Blank
Collected Date/Time: 04/29/2011 :
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

(*) Please also send copy of invoice to M.L.C. Mark (ARCADIS)

REPORT TO

CONTACT NAME: Mike Brennan
COMPANY: ARCADIS, U.S., INC.
ADDRESS: 10559 Citation Dr., Suite 100
CITY: Brighton STATE: MI ZIP CODE: 48116
PHONE NO.: (See Contract For Details) FAX NO.: P.O. NO.:
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO ☑ SAME

CONTACT NAME: Mr. Robert W. Hare / Mr. Grant Trigg
COMPANY: Motors Liquidation Company / RACER Trust
ADDRESS: 401 S. Old Woodward Ave, Suite 370
CITY: Birmingham STATE: MI ZIP CODE: 48009
PHONE NO.: 313-486-2928 FAX NO.: — P.O. NO.: MLT-1295

PROJECT NO./NAME: B0064410.2011.00801
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Corri Zilio / Corri Zilio

TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☒ OTHER EDD

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

SPECIAL INSTRUCTIONS/NOTES

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCL	HNO_3	H_2SO_4	NaOH	NaOH	OTHER	Low-Level Hg	Dissolved LL Hg	SPECIAL INSTRUCTIONS/NOTES
48585.01	4/29/11	0740	EB-04292011	L	4	4							X		
.02	4/29/11	0845	MP013-04292011	L	8	8							X	X	
.03	4/29/11	0900	MP010-04292011	L	4	4							X		
.04	4/29/11	0925	MP006-04292011	L	4	4							X		
.05/06/07	4/29/11	1030	MP002-04292011	L	4	12							X		MS/MSD
.08	4/29/11	1050	MP005-04292011	L	4	4							X		
.09	4/29/11	1110	MP003-04292011	L	4	4							X		
.10	4/29/11	1145	MP007-04292011	L	4	4							X		
.11	4/29/11	1200	EQB-04292011	L	4	4							X		
.12	4/29/11	—	DUP-01-04292011	L	4	4							X		
.13		—	TRIP Blank	L	2	2							X		

		DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	Corri Zilio / ARCADIS	4/29/11	1310
RECEIVED BY: SIGNATURE/ORGANIZATION	[signature]	4-29-11	1310
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION	[signature]	DATE 4-29-11	TIME 1910
RECEIVED BY: SIGNATURE/ORGANIZATION	[signature]	DATE 4-29-11	TIME 1910
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL 4.2
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Fibertec
environmental
services

Friday, May 06, 2011

Fibertec Project Number:	44304
Project Identification:	48565 /
Submittal Date:	04/29/2011

Ms. Paula Shaw
Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Dear Ms. Shaw,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note samples will be disposed of 30 days after reporting date.

Sample 44304-003 (48565.02 Filtered) was filtered upon reciept at laboratory on April 29, 2011.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures

1914 Holloway Drive	*Holt, MI 48842*	*T: (517) 699-0345*	*F: (517) 699-0388*
11766 E. Grand River	*Brighton, MI 48116*	*T: (810) 220-3300*	*F: (810) 220-3311*
8660 S. Mackinaw Trail	*Cadillac, MI 49601*	*T: (231) 775-8368*	*F: (231) 775-8584*

lab@fibertec.us

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48565.01**	Chain of Custody:	**66547**
Client Project Name:	**48565**	Sample No:	**1**	Collect Date:	**04/29/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**07:40**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 44304-001** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	U		ng/L	0.51	1.0	05/05/11	PM11E05A	05/05/11	M511E05A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48565.02**	Chain of Custody:	**66547**
Client Project Name:	**48565**	Sample No:	**2**	Collect Date:	**04/29/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**08:45**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 44304-002** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**0.67**		ng/L	0.51	1.0	05/05/11	PM11E05A	05/05/11	M511E05A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48565.02 Filtered**	Chain of Custody:	**66547**
Client Project Name:	**48565**	Sample No:	**3**	Collect Date:	**04/29/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**08:45**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Dissolved (EPA 1631E) **Aliquot ID: 44304-003** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**0.94**		ng/L	0.51	1.0	NA	NA	05/05/11	M511E05A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48565.03**	Chain of Custody:	**66547**
Client Project Name:	**48565**	Sample No:	**4**	Collect Date:	**04/29/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 44304-004** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**100**		ng/L	20	41	05/05/11	PM11E05A	05/05/11	M511E05A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48565.04**	Chain of Custody:	**66547**
Client Project Name:	**48565**	Sample No:	**5**	Collect Date:	**04/29/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:25**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 44304-005** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**3.7**		ng/L	0.51	1.0	05/05/11	PM11E05A	05/05/11	M511E05A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48565.05**	Chain of Custody:	**66547**
Client Project Name:	**48565**	Sample No:	**6**	Collect Date:	**04/29/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**10:30**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 44304-006** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**4.6**		ng/L	0.51	1.0	05/05/11	PM11E05A	05/05/11	M511E05A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48565.06 (MS FOR .05)**	Chain of Custody:	**66547**
Client Project Name:	**48565**	Sample No:	**7**	Collect Date:	**04/29/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**10:30**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 44304-007** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**10**		ng/L	1.0	2.0	05/05/11	PM11E05A	05/05/11	M511E05A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48565.07 (MSD FOR .05)**	Chain of Custody:	**66547**
Client Project Name:	**48565**	Sample No:	**8**	Collect Date:	**04/29/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**10:30**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 44304-008** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**12**		ng/L	1.0	2.0	05/05/11	PM11E05A	05/05/11	M511E05A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48565.08**	Chain of Custody:	**66547**
Client Project Name:	**48565**	Sample No:	**9**	Collect Date:	**04/29/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**10:50**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 44304-009** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**8.1**		ng/L	0.51	1.0	05/05/11	PM11E05A	05/05/11	M511E05A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48565.09**	Chain of Custody:	**66547**
Client Project Name:	**48565**	Sample No:	**10**	Collect Date:	**04/29/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**11:10**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 44304-010** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**6.3**		ng/L	0.51	1.0	05/05/11	PM11E05A	05/05/11	M511E05A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48565.10**	Chain of Custody:	**66547**
Client Project Name:	**48565**	Sample No:	**11**	Collect Date:	**04/29/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**11:45**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 44304-011** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**5.7**		ng/L	0.51	1.0	05/05/11	PM11E05A	05/05/11	M511E05A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48565.11**	Chain of Custody:	**66547**
Client Project Name:	**48565**	Sample No:	**12**	Collect Date:	**04/29/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**12:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 44304-012** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**0.73**		ng/L	0.51	1.0	05/05/11	PM11E05A	05/05/11	M511E05A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48565.12**	Chain of Custody:	**66547**
Client Project Name:	**48565**	Sample No:	**13**	Collect Date:	**04/29/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 44304-013** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**3.2**		ng/L	0.51	1.0	05/05/11	PM11E05A	05/05/11	M511E05A

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QA limits

Exception Summary:

ACCREDITED IN ACCORDANCE WITH nelac

Accreditation Number:

E-10395

Analytical Laboratory Report

Report ID: S48574.01(01)
Generated on 05/04/2011

Report to

Attention: Mike Brennan/ Liz Marsh/Amy C
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S48574.01
Project: B0064410.4010.00005/ Flint NAO
Collected Date: 04/26/2011
Submitted Date/Time: 04/29/2011 14:10
Sampled by: Corri Zilio
P.O. #: MLI0001

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (1 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S48574.01	Outfall 003A (042611)	Liquid	04/26/2011 15:00

Analytical Laboratory Report

Lab Sample ID: S48574.01
Sample Tag: Outfall 003A (042611)
Collected Date/Time: 04/26/2011 15:00
Matrix: Liquid
COC Reference: 61210

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	05/02/11 22:18	EMR		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	05/03/11 16:51	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	05/03/11 16:51	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	05/03/11 16:51	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	05/03/11 16:51	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	05/03/11 16:51	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	05/03/11 16:51	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	05/03/11 16:51	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	05/03/11 16:51	JANB	1336-36-3	

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

61210

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Mike Brennan / Amy Conover / Liz Marsh
COMPANY: ARCADIS
ADDRESS: 10559 Citation Drive Ste. 100
CITY: Brighton STATE: MI ZIP CODE: 48116
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: (SEE CONTRACT FOR DETAILS) QUOTE NO.:

INVOICE TO

CONTACT NAME: Bob Hare / Grant Trigger ☐ SAME
COMPANY: Motors Liquidation Company / BACER Trust
ADDRESS: 401 S. Woodward Ave Ste 370
CITY: Birmingham STATE: MI ZIP CODE: 48009
PHONE NO.: 313-486-2928 FAX NO.: P.O. NO.: Operational

PROJECT NO./NAME: B0064410.4010.0005 / Flint NAO
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Corri Zilio / Corri Zilio
TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER
DELIVERABLES REQUIRED: ☒ STANDARD ☒ LEVEL II ☐ LEVEL III ☒ OTHER EDD

MATRIX CODE: GW=GROUNDWATER, SL=SLUDGE, WW=WASTEWATER, O=OIL, S=SOIL, A=AIR, L=LIQUID, W=WASTE, SD=SOLID, M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED): Total PCB

SPECIAL INSTRUCTIONS/NOTES: *Please send copy of invoice to Micki Maki (ARCADIS)

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Total PCB	SPECIAL INSTRUCTIONS/NOTES
48574.01	4/26/11	1500	OUTFALL 003A (042611)	L	2	X							X	4/25-4/26 ~~Wet Weather~~ (C2)

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
Corri Zilio / ARCADIS	4-29-11	1310
RECEIVED BY: SIGNATURE/ORGANIZATION	4-29-11	1315
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
	4-29-11	1410
RECEIVED BY: SIGNATURE/ORGANIZATION	4-29-11	1410

SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS
SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS
NOTES: TEMP. ON ARRIVAL 4.2

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Analytical Laboratory Report

Report ID: S48575.01(01)
Generated on 05/04/2011

Report to

Attention: Mike Brennan
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S48575.01
Project: B0064410.2011.00801
Collected Date: 04/29/2011
Submitted Date/Time: 04/29/2011 14:10
Sampled by: Corri Zilio
P.O. #: B0064410.2011.0

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (1 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S48575.01	Outfall 005 (042911)	Liquid	04/29/2011 13:00

Analytical Laboratory Report

Lab Sample ID: S48575.01
Sample Tag: Outfall 005 (042911)
Collected Date/Time: 04/29/2011 13:00
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	05/02/11 22:18	EMR		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	05/03/11 17:01	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	05/03/11 17:01	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	05/03/11 17:01	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	05/03/11 17:01	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	05/03/11 17:01	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	05/03/11 17:01	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	05/03/11 17:01	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	05/03/11 17:01	JANB	1336-36-3	

outfall 005
outfall 004 (if needed)

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

(*) Please also send copy of invoices to Micki Mako [ARCADIS]

REPORT TO				INVOICE TO			
CONTACT NAME	Mike Brennan			CONTACT NAME	Mr. Robert Hare / Mr. Grant Trigger	☐ SAME	
COMPANY	ARCADIS U.S., Inc.			COMPANY	Motors Liquidation Company / RACER Trust		
ADDRESS	10559 Citation Drive, Suite 100			ADDRESS	401 S. Old Woodward Ave., Suite 370		
CITY	Brighton	STATE MI	ZIP CODE 48116	CITY	Birmingham	STATE MI	ZIP CODE 48009
PHONE NO.	(See Contract For Details)	FAX NO.	P.O. NO.	PHONE NO.	313-486-2928	FAX NO. —	P.O. NO. MLT-1295
E-MAIL ADDRESS			QUOTE NO.				

PROJECT NO./NAME: B0064410.2011.00801

SAMPLER(S) - PLEASE PRINT/SIGN NAME: Corri Zilio / Corri Zilio

TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☒ OTHER EDD

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED): Total PCBs

SPECIAL INSTRUCTIONS/NOTES

MATRIX CODE: GW=GROUNDWATER, WW=WASTEWATER, S=SOIL, L=LIQUID, SD=SOLID, SL=SLUDGE, O=OIL, A=AIR, W=WASTE, M=MISC

MERIT LAB NO.	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO_3	H_2SO_4	NaOH	NaOH	OTHER	Total PCBs	
485750	4/29/11	1300	OUTFALL 005 (042911)	L	2	X							X	4/28 - 4/29

RELINQUISHED BY SIGNATURE/ORGANIZATION	DATE	TIME
Corri Zilio / ARCADIS	4/29/11	1300
RECEIVED BY SIGNATURE/ORGANIZATION	4-29-11	1300
RELINQUISHED BY SIGNATURE/ORGANIZATION		
RECEIVED BY SIGNATURE/ORGANIZATION		

RELINQUISHED BY SIGNATURE/ORGANIZATION	DATE	TIME
	4-29-11	1410
RECEIVED BY SIGNATURE/ORGANIZATION	4-29-11	1410

SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES:	TEMP. ON ARRIVAL 2.2
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS		

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Analytical Laboratory Report

Report ID: S48577.01(01)
Generated on 05/05/2011

Report to

Attention: Mike Brennan
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S48577.01-S48577.13
Project: B0064410.2011.00801
Collected Date: 04/29/2011
Submitted Date/Time: 04/29/2011 14:10
Sampled by: Corri Zilio
P.O. #: B0064410.2011.0

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (13 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S48577.01	FB_04292011	Liquid	04/29/2011 07:40
S48577.02	MP013_04292011	Liquid	04/29/2011 08:45
S48577.03	MP010_04292011	Liquid	04/29/2011 09:00
S48577.04	MP006_04292011	Liquid	04/29/2011 09:25
S48577.05	MP002_04292011	Liquid	04/29/2011 10:30
S48577.06	MP002_04292011 MS	Liquid	04/29/2011 10:30
S48577.07	MP002_04292011 MSD	Liquid	04/29/2011 10:30
S48577.08	MP005_04292011	Liquid	04/29/2011 10:50
S48577.09	MP003_04292011	Liquid	04/29/2011 11:10
S48577.10	MP007_04292011	Liquid	04/29/2011 11:45
S48577.11	EQB_04292011	Liquid	04/29/2011 12:00
S48577.12	DUP01_04292011	Liquid	04/29/2011
S48577.13	Trip Blank	Liquid	04/29/2011

Analytical Laboratory Report

Lab Sample ID: S48577.01
Sample Tag: FB_04292011
Collected Date/Time: 04/29/2011 07:40
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR
1	125ml Plastic	HNO3	Yes	4.2	IR
1	125ml Plastic	NaOH	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	05/04/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	05/03/11 12:38	JDP	57-12-5	
Metals								
Antimony	Not detected	mg/L	0.005	200.8	05/04/11 13:42	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	05/04/11 13:42	SLS	7440-38-2	
Barium	Not detected	mg/L	0.005	200.8	05/04/11 13:42	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	05/05/11 13:43	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	05/04/11 13:42	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	05/04/11 13:42	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	05/04/11 13:42	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	05/04/11 13:42	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	05/04/11 13:42	SLS	7439-92-1	
Manganese	Not detected	mg/L	0.005	200.8	05/04/11 13:42	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	05/04/11 13:42	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	05/04/11 13:42	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	05/04/11 13:42	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	05/04/11 13:42	SLS	7440-28-0	
Vanadium	Not detected	mg/L	0.004	200.8	05/04/11 13:42	SLS	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	05/04/11 13:42	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	05/03/11 13:49	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	05/03/11 13:49	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	05/03/11 13:49	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	05/03/11 13:49	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	05/03/11 13:49	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	05/03/11 13:49	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	05/03/11 13:49	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	05/03/11 13:49	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	05/03/11 13:49	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	05/03/11 13:49	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	05/03/11 13:49	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	156-60-5	

Lab Sample ID: S48577.01 (continued)
Sample Tag: FB_04292011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethane	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	05/03/11 13:49	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	05/03/11 13:49	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	05/03/11 13:49	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	05/03/11 13:49	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	05/03/11 13:49	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	05/03/11 13:49	WAT		
o-Xylene	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	05/03/11 13:49	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	05/03/11 13:49	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	05/03/11 13:49	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	05/03/11 13:49	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	05/03/11 13:49	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	05/03/11 13:49	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	05/03/11 13:49	WAT	87-61-6	

Analytical Laboratory Report

Lab Sample ID: S48577.01 (continued)
Sample Tag: FB_04292011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Naphthalene	Not detected	ug/L	5	8260B	05/03/11 13:49	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	05/03/11 13:49	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S48577.02
Sample Tag: MP013_04292011
Collected Date/Time: 04/29/2011 08:45
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	125ml Plastic	HNO3	Yes	4.2	IR
1	125ml Plastic	NaOH	Yes	4.2	IR
1	250ml Plastic	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	05/04/11 01:00	SLR		
Metal Digestion	Completed			3015A	05/04/11 01:00	SLR		
Inorganics								
Cyanide	0.008	mg/L	0.005	335.4/4500-CN-E	05/03/11 12:40	JDP	57-12-5	
Total Suspended Solids	2	mg/L	1	2540 D	05/04/11 13:00	DJS		
Metals								
Antimony, Dissolved	Not detected	mg/L	0.005	200.8	05/04/11 13:51	SLS	7440-36-0	
Antimony	Not detected	mg/L	0.005	200.8	05/04/11 13:46	SLS	7440-36-0	
Arsenic, Dissolved	Not detected	mg/L	0.002	200.8	05/04/11 13:51	SLS	7440-38-2	
Arsenic	Not detected	mg/L	0.002	200.8	05/04/11 13:46	SLS	7440-38-2	
Barium, Dissolved	0.059	mg/L	0.005	200.8	05/04/11 13:51	SLS	7440-39-3	
Barium	0.054	mg/L	0.005	200.8	05/04/11 13:46	SLS	7440-39-3	
Beryllium, Dissolved	Not detected	mg/L	0.001	200.8	05/05/11 13:47	SLS	7440-41-7	
Beryllium	Not detected	mg/L	0.001	200.8	05/05/11 13:45	SLS	7440-41-7	
Cadmium, Dissolved	Not detected	mg/L	0.0005	200.8	05/04/11 13:51	SLS	7440-43-9	
Cadmium	Not detected	mg/L	0.0005	200.8	05/04/11 13:46	SLS	7440-43-9	
Chromium, Dissolved	Not detected	mg/L	0.005	200.8	05/04/11 13:51	SLS	7440-47-3	
Chromium	Not detected	mg/L	0.005	200.8	05/04/11 13:46	SLS	7440-47-3	
Cobalt, Dissolved	Not detected	mg/L	0.005	200.8	05/04/11 13:51	SLS	7440-48-4	
Cobalt	Not detected	mg/L	0.005	200.8	05/04/11 13:46	SLS	7440-48-4	
Copper, Dissolved	Not detected	mg/L	0.004	200.8	05/04/11 13:51	SLS	7440-50-8	
Copper	Not detected	mg/L	0.004	200.8	05/04/11 13:46	SLS	7440-50-8	
Lead, Dissolved	Not detected	mg/L	0.003	200.8	05/04/11 13:51	SLS	7439-92-1	
Lead	Not detected	mg/L	0.003	200.8	05/04/11 13:46	SLS	7439-92-1	
Manganese, Dissolved	0.070	mg/L	0.005	200.8	05/04/11 13:51	SLS	7439-96-5	
Manganese	0.076	mg/L	0.005	200.8	05/04/11 13:46	SLS	7439-96-5	
Nickel, Dissolved	Not detected	mg/L	0.005	200.8	05/04/11 13:51	SLS	7440-02-0	
Nickel	Not detected	mg/L	0.005	200.8	05/04/11 13:46	SLS	7440-02-0	
Selenium, Dissolved	Not detected	mg/L	0.005	200.8	05/04/11 13:51	SLS	7782-49-2	
Selenium	Not detected	mg/L	0.005	200.8	05/04/11 13:46	SLS	7782-49-2	
Silver, Dissolved	Not detected	mg/L	0.0005	200.8	05/04/11 13:51	SLS	7440-22-4	
Silver	Not detected	mg/L	0.0005	200.8	05/04/11 13:46	SLS	7440-22-4	
Thallium, Dissolved	Not detected	mg/L	0.001	200.8	05/04/11 13:51	SLS	7440-28-0	
Thallium	Not detected	mg/L	0.001	200.8	05/04/11 13:46	SLS	7440-28-0	
Vanadium, Dissolved	Not detected	mg/L	0.004	200.8	05/04/11 13:51	SLS	7440-62-2	
Vanadium	Not detected	mg/L	0.004	200.8	05/04/11 13:46	SLS	7440-62-2	
Zinc, Dissolved	0.016	mg/L	0.005	200.8	05/04/11 13:51	SLS	7440-66-6	
Zinc	0.011	mg/L	0.005	200.8	05/04/11 13:46	SLS	7440-66-6	

Analytical Laboratory Report

Lab Sample ID: S48577.03
Sample Tag: MP010_04292011
Collected Date/Time: 04/29/2011 09:00
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.2	IR
1	125ml Plastic	NaOH	Yes	4.2	IR
1	250ml Plastic	None	Yes	4.2	IR
2	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	05/04/11 01:00	SLR		
Inorganics								
Cyanide	0.010	mg/L	0.005	335.4/4500-CN-E	05/03/11 12:42	JDP	57-12-5	
Total Suspended Solids	12	mg/L	1	2540 D	05/04/11 13:00	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	05/04/11 13:56	SLS	7440-36-0	
Arsenic	0.002	mg/L	0.002	200.8	05/04/11 13:56	SLS	7440-38-2	
Barium	0.077	mg/L	0.005	200.8	05/04/11 13:56	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	05/05/11 13:49	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	05/04/11 13:56	SLS	7440-43-9	
Chromium	0.005	mg/L	0.005	200.8	05/04/11 13:56	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	05/04/11 13:56	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	05/04/11 13:56	SLS	7440-50-8	
Lead	0.003	mg/L	0.003	200.8	05/04/11 13:56	SLS	7439-92-1	
Manganese	0.117	mg/L	0.005	200.8	05/04/11 13:56	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	05/04/11 13:56	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	05/04/11 13:56	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	05/04/11 13:56	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	05/04/11 13:56	SLS	7440-28-0	
Vanadium	Not detected	mg/L	0.004	200.8	05/04/11 13:56	SLS	7440-62-2	
Zinc	0.020	mg/L	0.005	200.8	05/04/11 13:56	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	05/03/11 14:07	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	05/03/11 14:07	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	05/03/11 14:07	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	05/03/11 14:07	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	05/03/11 14:07	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	05/03/11 14:07	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	05/03/11 14:07	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	05/03/11 14:07	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	05/03/11 14:07	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	05/03/11 14:07	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	75-35-4	

Lab Sample ID: S48577.03 (continued)
Sample Tag: MP010_04292011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Methylene chloride	Not detected	ug/L	5	8260B	05/03/11 14:07	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	75-34-3	
cis-1,2-Dichloroethene	1	ug/L	1	8260B	05/03/11 14:07	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	05/03/11 14:07	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	05/03/11 14:07	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	05/03/11 14:07	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	107-06-2	
Trichloroethene	1	ug/L	1	8260B	05/03/11 14:07	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	05/03/11 14:07	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	05/03/11 14:07	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	05/03/11 14:07	WAT		
o-Xylene	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	05/03/11 14:07	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	05/03/11 14:07	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	05/03/11 14:07	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	05/03/11 14:07	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	05/03/11 14:07	WAT	96-12-8	

Lab Sample ID: S48577.03 (continued)
Sample Tag: MP010_04292011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	05/03/11 14:07	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	05/03/11 14:07	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	05/03/11 14:07	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	05/03/11 14:07	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S48577.04
Sample Tag: MP006_04292011
Collected Date/Time: 04/29/2011 09:25
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.2	IR
1	125ml Plastic	NaOH	Yes	4.2	IR
1	250ml Plastic	None	Yes	4.2	IR
2	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	05/04/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	05/03/11 12:44	JDP	57-12-5	
Total Suspended Solids	<1	mg/L	1	2540 D	05/04/11 13:00	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	05/04/11 14:00	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	05/04/11 14:00	SLS	7440-38-2	
Barium	0.052	mg/L	0.005	200.8	05/04/11 14:00	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	05/05/11 13:51	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	05/04/11 14:00	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	05/04/11 14:00	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	05/04/11 14:00	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	05/04/11 14:00	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	05/04/11 14:00	SLS	7439-92-1	
Manganese	0.234	mg/L	0.005	200.8	05/04/11 14:00	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	05/04/11 14:00	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	05/04/11 14:00	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	05/04/11 14:00	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	05/04/11 14:00	SLS	7440-28-0	
Vanadium	Not detected	mg/L	0.004	200.8	05/04/11 14:00	SLS	7440-62-2	
Zinc	0.021	mg/L	0.005	200.8	05/04/11 14:00	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	05/03/11 14:26	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	05/03/11 14:26	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	05/03/11 14:26	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	05/03/11 14:26	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	05/03/11 14:26	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	05/03/11 14:26	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	05/03/11 14:26	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	05/03/11 14:26	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	05/03/11 14:26	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	05/03/11 14:26	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	75-35-4	

Lab Sample ID: S48577.04 (continued)
Sample Tag: MP006_04292011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Methylene chloride	Not detected	ug/L	5	8260B	05/03/11 14:26	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	05/03/11 14:26	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	05/03/11 14:26	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	05/03/11 14:26	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	05/03/11 14:26	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	05/03/11 14:26	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	05/03/11 14:26	WAT		
o-Xylene	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	05/03/11 14:26	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	05/03/11 14:26	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	05/03/11 14:26	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	05/03/11 14:26	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	05/03/11 14:26	WAT	96-12-8	

Lab Sample ID: S48577.04 (continued)
Sample Tag: MP006_04292011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	05/03/11 14:26	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	05/03/11 14:26	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	05/03/11 14:26	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	05/03/11 14:26	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S48577.05
Sample Tag: MP002_04292011
Collected Date/Time: 04/29/2011 10:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.2	IR
1	125ml Plastic	NaOH	Yes	4.2	IR
1	250ml Plastic	None	Yes	4.2	IR
2	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	05/04/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	05/03/11 12:46	JDP	57-12-5	
Total Suspended Solids	24	mg/L	1	2540 D	05/04/11 13:00	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	05/04/11 14:05	SLS	7440-36-0	
Arsenic	0.005	mg/L	0.002	200.8	05/04/11 14:05	SLS	7440-38-2	
Barium	0.196	mg/L	0.005	200.8	05/04/11 14:05	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	05/05/11 13:53	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	05/04/11 14:05	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	05/04/11 14:05	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	05/04/11 14:05	SLS	7440-48-4	
Copper	0.014	mg/L	0.004	200.8	05/04/11 14:05	SLS	7440-50-8	
Lead	0.017	mg/L	0.003	200.8	05/04/11 14:05	SLS	7439-92-1	
Manganese	0.346	mg/L	0.005	200.8	05/04/11 14:05	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	05/04/11 14:05	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	05/04/11 14:05	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	05/04/11 14:05	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	05/04/11 14:05	SLS	7440-28-0	
Vanadium	Not detected	mg/L	0.004	200.8	05/04/11 14:05	SLS	7440-62-2	
Zinc	0.029	mg/L	0.005	200.8	05/04/11 14:05	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	05/03/11 14:44	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	05/03/11 14:44	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	05/03/11 14:44	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	05/03/11 14:44	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	05/03/11 14:44	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	05/03/11 14:44	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	05/03/11 14:44	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	05/03/11 14:44	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	05/03/11 14:44	WAT	74-83-9	
Chloroethane	9	ug/L	5	8260B	05/03/11 14:44	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	75-35-4	

Lab Sample ID: S48577.05 (continued)
Sample Tag: MP002_04292011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Methylene chloride	Not detected	ug/L	5	8260B	05/03/11 14:44	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	156-60-5	
1,1-Dichloroethane	8	ug/L	1	8260B	05/03/11 14:44	WAT	75-34-3	
cis-1,2-Dichloroethene	3	ug/L	1	8260B	05/03/11 14:44	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	05/03/11 14:44	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	74-97-5	
1,1,1-Trichloroethane	8	ug/L	1	8260B	05/03/11 14:44	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	05/03/11 14:44	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	05/03/11 14:44	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	107-06-2	
Trichloroethene	2	ug/L	1	8260B	05/03/11 14:44	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	05/03/11 14:44	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	05/03/11 14:44	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	05/03/11 14:44	WAT		
o-Xylene	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	05/03/11 14:44	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	05/03/11 14:44	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	05/03/11 14:44	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	05/03/11 14:44	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	05/03/11 14:44	WAT	96-12-8	

Lab Sample ID: S48577.05 (continued)
Sample Tag: MP002_04292011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	05/03/11 14:44	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	05/03/11 14:44	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	05/03/11 14:44	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	05/03/11 14:44	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S48577.06
Sample Tag: MP002_04292011 MS
Collected Date/Time: 04/29/2011 10:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.2	IR
1	125ml Plastic	NaOH	Yes	4.2	IR
1	250ml Plastic	None	Yes	4.2	IR
2	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	05/04/11 01:00	SLR		
Inorganics								
Cyanide	0.106	mg/L	0.005	335.4/4500-CN-E	05/03/11 12:48	JDP	57-12-5	
Total Suspended Solids	15	mg/L	1	2540 D	05/04/11 13:00	DJS		
Metals								
Antimony	0.254	mg/L	0.005	200.8	05/04/11 14:09	SLS	7440-36-0	
Arsenic	0.276	mg/L	0.002	200.8	05/04/11 14:09	SLS	7440-38-2	
Barium	0.454	mg/L	0.005	200.8	05/04/11 14:09	SLS	7440-39-3	
Beryllium	0.261	mg/L	0.001	200.8	05/05/11 13:55	SLS	7440-41-7	
Cadmium	0.2536	mg/L	0.0005	200.8	05/04/11 14:09	SLS	7440-43-9	
Chromium	0.272	mg/L	0.005	200.8	05/04/11 14:09	SLS	7440-47-3	
Cobalt	0.261	mg/L	0.005	200.8	05/04/11 14:09	SLS	7440-48-4	
Copper	0.268	mg/L	0.004	200.8	05/04/11 14:09	SLS	7440-50-8	
Lead	0.255	mg/L	0.003	200.8	05/04/11 14:09	SLS	7439-92-1	
Manganese	0.614	mg/L	0.005	200.8	05/04/11 14:09	SLS	7439-96-5	
Nickel	0.261	mg/L	0.005	200.8	05/04/11 14:09	SLS	7440-02-0	
Selenium	0.283	mg/L	0.005	200.8	05/04/11 14:09	SLS	7782-49-2	
Silver	0.2219	mg/L	0.0005	200.8	05/04/11 14:09	SLS	7440-22-4	
Thallium	0.258	mg/L	0.001	200.8	05/04/11 14:09	SLS	7440-28-0	
Vanadium	0.276	mg/L	0.004	200.8	05/04/11 14:09	SLS	7440-62-2	
Zinc	0.287	mg/L	0.005	200.8	05/04/11 14:09	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	37	ug/L	10	8260B	05/03/11 18:25	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	8260B	05/03/11 18:25	WAT	67-64-1	1
Methyl iodide	47	ug/L	1	8260B	05/03/11 18:25	WAT	74-88-4	1
Carbon disulfide	42	ug/L	5	8260B	05/03/11 18:25	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	45	ug/L	5	8260B	05/03/11 18:25	WAT	1634-04-4	1
Acrylonitrile	45	ug/L	2	8260B	05/03/11 18:25	WAT	107-13-1	1
2-Butanone (MEK)	38	ug/L	25	8260B	05/03/11 18:25	WAT	78-93-3	1
Dichlorodifluoromethane	22	ug/L	5	8260B	05/03/11 18:25	WAT	75-71-8	1
Chloromethane	31	ug/L	5	8260B	05/03/11 18:25	WAT	74-87-3	1
Vinyl chloride	34	ug/L	1	8260B	05/03/11 18:25	WAT	75-01-4	1
Bromomethane	43	ug/L	5	8260B	05/03/11 18:25	WAT	74-83-9	1
Chloroethane	53	ug/L	5	8260B	05/03/11 18:25	WAT	75-00-3	1
Trichlorofluoromethane	48	ug/L	1	8260B	05/03/11 18:25	WAT	75-69-4	1

1-Sample spiked at 50ug/l

Lab Sample ID: S48577.06 (continued)
Sample Tag: MP002_04292011 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	46	ug/L	1	8260B	05/03/11 18:25	WAT	75-35-4	1
Methylene chloride	44	ug/L	5	8260B	05/03/11 18:25	WAT	75-09-2	1
trans-1,2-Dichloroethene	46	ug/L	1	8260B	05/03/11 18:25	WAT	156-60-5	1
1,1-Dichloroethane	54	ug/L	1	8260B	05/03/11 18:25	WAT	75-34-3	1
cis-1,2-Dichloroethene	48	ug/L	1	8260B	05/03/11 18:25	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	8260B	05/03/11 18:25	WAT	109-99-9	1
Chloroform	47	ug/L	1	8260B	05/03/11 18:25	WAT	67-66-3	1
Bromochloromethane	45	ug/L	1	8260B	05/03/11 18:25	WAT	74-97-5	1
1,1,1-Trichloroethane	57	ug/L	1	8260B	05/03/11 18:25	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	05/03/11 18:25	WAT	108-10-1	1
2-Hexanone	Not detected	ug/L	50	8260B	05/03/11 18:25	WAT	591-78-6	1
Carbon tetrachloride	56	ug/L	1	8260B	05/03/11 18:25	WAT	56-23-5	1
Benzene	46	ug/L	1	8260B	05/03/11 18:25	WAT	71-43-2	1
1,2-Dichloroethane	52	ug/L	1	8260B	05/03/11 18:25	WAT	107-06-2	1
Trichloroethene	51	ug/L	1	8260B	05/03/11 18:25	WAT	79-01-6	1
1,2-Dichloropropane	48	ug/L	1	8260B	05/03/11 18:25	WAT	78-87-5	1
Bromodichloromethane	53	ug/L	1	8260B	05/03/11 18:25	WAT	75-27-4	1
Dibromomethane	50	ug/L	5	8260B	05/03/11 18:25	WAT	74-95-3	1
cis-1,3-Dichloropropene	48	ug/L	1	8260B	05/03/11 18:25	WAT	10061-01-5	1
Toluene	47	ug/L	1	8260B	05/03/11 18:25	WAT	108-88-3	1
trans-1,3-Dichloropropene	49	ug/L	1	8260B	05/03/11 18:25	WAT	10061-02-6	1
1,1,2-Trichloroethane	44	ug/L	1	8260B	05/03/11 18:25	WAT	79-00-5	1
Tetrachloroethene	47	ug/L	1	8260B	05/03/11 18:25	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	47	ug/L	1	8260B	05/03/11 18:25	WAT	110-57-6	1
Dibromochloromethane	49	ug/L	5	8260B	05/03/11 18:25	WAT	124-48-1	1
1,2-Dibromoethane	47	ug/L	1	8260B	05/03/11 18:25	WAT	106-93-4	1
Chlorobenzene	48	ug/L	1	8260B	05/03/11 18:25	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	52	ug/L	1	8260B	05/03/11 18:25	WAT	630-20-6	1
Ethylbenzene	48	ug/L	1	8260B	05/03/11 18:25	WAT	100-41-4	1
p,m-Xylene	96	ug/L	2	8260B	05/03/11 18:25	WAT		1
o-Xylene	50	ug/L	1	8260B	05/03/11 18:25	WAT	95-47-6	1
Styrene	39	ug/L	1	8260B	05/03/11 18:25	WAT	100-42-5	1
Isopropylbenzene	49	ug/L	5	8260B	05/03/11 18:25	WAT	98-82-8	1
Bromoform	50	ug/L	1	8260B	05/03/11 18:25	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	46	ug/L	1	8260B	05/03/11 18:25	WAT	79-34-5	1
1,2,3-Trichloropropane	49	ug/L	1	8260B	05/03/11 18:25	WAT	96-18-4	1
n-Propylbenzene	48	ug/L	1	8260B	05/03/11 18:25	WAT	103-65-1	1
Bromobenzene	49	ug/L	1	8260B	05/03/11 18:25	WAT	108-86-1	1
1,3,5-Trimethylbenzene	49	ug/L	1	8260B	05/03/11 18:25	WAT	108-67-8	1
tert-Butylbenzene	50	ug/L	1	8260B	05/03/11 18:25	WAT	98-06-6	1
1,2,4-Trimethylbenzene	47	ug/L	1	8260B	05/03/11 18:25	WAT	95-63-6	1
sec-Butylbenzene	48	ug/L	1	8260B	05/03/11 18:25	WAT	135-98-8	1
p-Isopropyltoluene	49	ug/L	5	8260B	05/03/11 18:25	WAT	99-87-6	1
1,3-Dichlorobenzene	46	ug/L	1	8260B	05/03/11 18:25	WAT	541-73-1	1
1,4-Dichlorobenzene	46	ug/L	1	8260B	05/03/11 18:25	WAT	106-46-7	1
1,2-Dichlorobenzene	46	ug/L	1	8260B	05/03/11 18:25	WAT	95-50-1	1
1,2,3-Trimethylbenzene	47	ug/L	1	8260B	05/03/11 18:25	WAT	526-73-8	1
n-Butylbenzene	46	ug/L	1	8260B	05/03/11 18:25	WAT	104-51-8	1

1-Sample spiked at 50ug/l

Lab Sample ID: S48577.06 (continued)
Sample Tag: MP002_04292011 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Hexachloroethane	48	ug/L	5	8260B	05/03/11 18:25	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	46	ug/L	5	8260B	05/03/11 18:25	WAT	96-12-8	1
1,2,4-Trichlorobenzene	45	ug/L	5	8260B	05/03/11 18:25	WAT	120-82-1	1
1,2,3-Trichlorobenzene	45	ug/L	5	8260B	05/03/11 18:25	WAT	87-61-6	1
Naphthalene	44	ug/L	5	8260B	05/03/11 18:25	WAT	91-20-3	1
2-Methylnaphthalene	46	ug/L	5	8260B	05/03/11 18:25	WAT	91-57-6	1

1-Sample spiked at 50ug/l

Analytical Laboratory Report

Lab Sample ID: S48577.07
Sample Tag: MP002_04292011 MSD
Collected Date/Time: 04/29/2011 10:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.2	IR
1	125ml Plastic	NaOH	Yes	4.2	IR
1	250ml Plastic	None	Yes	4.2	IR
2	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	05/04/11 01:00	SLR		
Inorganics								
Cyanide	0.107	mg/L	0.005	335.4/4500-CN-E	05/03/11 12:50	JDP	57-12-5	
Total Suspended Solids	19	mg/L	1	2540 D	05/04/11 13:00	DJS		
Metals								
Antimony	0.262	mg/L	0.005	200.8	05/04/11 14:14	SLS	7440-36-0	
Arsenic	0.282	mg/L	0.002	200.8	05/04/11 14:14	SLS	7440-38-2	
Barium	0.458	mg/L	0.005	200.8	05/04/11 14:14	SLS	7440-39-3	
Beryllium	0.269	mg/L	0.001	200.8	05/05/11 13:57	SLS	7440-41-7	
Cadmium	0.2525	mg/L	0.0005	200.8	05/04/11 14:14	SLS	7440-43-9	
Chromium	0.271	mg/L	0.005	200.8	05/04/11 14:14	SLS	7440-47-3	
Cobalt	0.264	mg/L	0.005	200.8	05/04/11 14:14	SLS	7440-48-4	
Copper	0.281	mg/L	0.004	200.8	05/04/11 14:14	SLS	7440-50-8	
Lead	0.257	mg/L	0.003	200.8	05/04/11 14:14	SLS	7439-92-1	
Manganese	0.630	mg/L	0.005	200.8	05/04/11 14:14	SLS	7439-96-5	
Nickel	0.267	mg/L	0.005	200.8	05/04/11 14:14	SLS	7440-02-0	
Selenium	0.286	mg/L	0.005	200.8	05/04/11 14:14	SLS	7782-49-2	
Silver	0.2164	mg/L	0.0005	200.8	05/04/11 14:14	SLS	7440-22-4	
Thallium	0.260	mg/L	0.001	200.8	05/04/11 14:14	SLS	7440-28-0	
Vanadium	0.279	mg/L	0.004	200.8	05/04/11 14:14	SLS	7440-62-2	
Zinc	0.296	mg/L	0.005	200.8	05/04/11 14:14	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	41	ug/L	10	8260B	05/03/11 18:43	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	8260B	05/03/11 18:43	WAT	67-64-1	1
Methyl iodide	52	ug/L	1	8260B	05/03/11 18:43	WAT	74-88-4	1
Carbon disulfide	46	ug/L	5	8260B	05/03/11 18:43	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	50	ug/L	5	8260B	05/03/11 18:43	WAT	1634-04-4	1
Acrylonitrile	51	ug/L	2	8260B	05/03/11 18:43	WAT	107-13-1	1
2-Butanone (MEK)	43	ug/L	25	8260B	05/03/11 18:43	WAT	78-93-3	1
Dichlorodifluoromethane	8	ug/L	5	8260B	05/03/11 18:43	WAT	75-71-8	1
Chloromethane	32	ug/L	5	8260B	05/03/11 18:43	WAT	74-87-3	1
Vinyl chloride	34	ug/L	1	8260B	05/03/11 18:43	WAT	75-01-4	1
Bromomethane	45	ug/L	5	8260B	05/03/11 18:43	WAT	74-83-9	1
Chloroethane	55	ug/L	5	8260B	05/03/11 18:43	WAT	75-00-3	1
Trichlorofluoromethane	52	ug/L	1	8260B	05/03/11 18:43	WAT	75-69-4	1

1-Sample spiked at 50ug/l

Lab Sample ID: S48577.07 (continued)
Sample Tag: MP002_04292011 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	50	ug/L	1	8260B	05/03/11 18:43	WAT	75-35-4	1
Methylene chloride	47	ug/L	5	8260B	05/03/11 18:43	WAT	75-09-2	1
trans-1,2-Dichloroethene	51	ug/L	1	8260B	05/03/11 18:43	WAT	156-60-5	1
1,1-Dichloroethane	58	ug/L	1	8260B	05/03/11 18:43	WAT	75-34-3	1
cis-1,2-Dichloroethene	53	ug/L	1	8260B	05/03/11 18:43	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	8260B	05/03/11 18:43	WAT	109-99-9	1
Chloroform	53	ug/L	1	8260B	05/03/11 18:43	WAT	67-66-3	1
Bromochloromethane	51	ug/L	1	8260B	05/03/11 18:43	WAT	74-97-5	1
1,1,1-Trichloroethane	67	ug/L	1	8260B	05/03/11 18:43	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	52	ug/L	50	8260B	05/03/11 18:43	WAT	108-10-1	1
2-Hexanone	Not detected	ug/L	50	8260B	05/03/11 18:43	WAT	591-78-6	1
Carbon tetrachloride	62	ug/L	1	8260B	05/03/11 18:43	WAT	56-23-5	1
Benzene	49	ug/L	1	8260B	05/03/11 18:43	WAT	71-43-2	1
1,2-Dichloroethane	57	ug/L	1	8260B	05/03/11 18:43	WAT	107-06-2	1
Trichloroethene	54	ug/L	1	8260B	05/03/11 18:43	WAT	79-01-6	1
1,2-Dichloropropane	52	ug/L	1	8260B	05/03/11 18:43	WAT	78-87-5	1
Bromodichloromethane	58	ug/L	1	8260B	05/03/11 18:43	WAT	75-27-4	1
Dibromomethane	54	ug/L	5	8260B	05/03/11 18:43	WAT	74-95-3	1
cis-1,3-Dichloropropene	52	ug/L	1	8260B	05/03/11 18:43	WAT	10061-01-5	1
Toluene	51	ug/L	1	8260B	05/03/11 18:43	WAT	108-88-3	1
trans-1,3-Dichloropropene	55	ug/L	1	8260B	05/03/11 18:43	WAT	10061-02-6	1
1,1,2-Trichloroethane	49	ug/L	1	8260B	05/03/11 18:43	WAT	79-00-5	1
Tetrachloroethene	51	ug/L	1	8260B	05/03/11 18:43	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	53	ug/L	1	8260B	05/03/11 18:43	WAT	110-57-6	1
Dibromochloromethane	56	ug/L	5	8260B	05/03/11 18:43	WAT	124-48-1	1
1,2-Dibromoethane	53	ug/L	1	8260B	05/03/11 18:43	WAT	106-93-4	1
Chlorobenzene	53	ug/L	1	8260B	05/03/11 18:43	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	59	ug/L	1	8260B	05/03/11 18:43	WAT	630-20-6	1
Ethylbenzene	53	ug/L	1	8260B	05/03/11 18:43	WAT	100-41-4	1
p,m-Xylene	104	ug/L	2	8260B	05/03/11 18:43	WAT		1
o-Xylene	54	ug/L	1	8260B	05/03/11 18:43	WAT	95-47-6	1
Styrene	49	ug/L	1	8260B	05/03/11 18:43	WAT	100-42-5	1
Isopropylbenzene	55	ug/L	5	8260B	05/03/11 18:43	WAT	98-82-8	1
Bromoform	57	ug/L	1	8260B	05/03/11 18:43	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	53	ug/L	1	8260B	05/03/11 18:43	WAT	79-34-5	1
1,2,3-Trichloropropane	54	ug/L	1	8260B	05/03/11 18:43	WAT	96-18-4	1
n-Propylbenzene	53	ug/L	1	8260B	05/03/11 18:43	WAT	103-65-1	1
Bromobenzene	54	ug/L	1	8260B	05/03/11 18:43	WAT	108-86-1	1
1,3,5-Trimethylbenzene	54	ug/L	1	8260B	05/03/11 18:43	WAT	108-67-8	1
tert-Butylbenzene	57	ug/L	1	8260B	05/03/11 18:43	WAT	98-06-6	1
1,2,4-Trimethylbenzene	54	ug/L	1	8260B	05/03/11 18:43	WAT	95-63-6	1
sec-Butylbenzene	54	ug/L	1	8260B	05/03/11 18:43	WAT	135-98-8	1
p-Isopropyltoluene	56	ug/L	5	8260B	05/03/11 18:43	WAT	99-87-6	1
1,3-Dichlorobenzene	53	ug/L	1	8260B	05/03/11 18:43	WAT	541-73-1	1
1,4-Dichlorobenzene	51	ug/L	1	8260B	05/03/11 18:43	WAT	106-46-7	1
1,2-Dichlorobenzene	53	ug/L	1	8260B	05/03/11 18:43	WAT	95-50-1	1
1,2,3-Trimethylbenzene	53	ug/L	1	8260B	05/03/11 18:43	WAT	526-73-8	1
n-Butylbenzene	52	ug/L	1	8260B	05/03/11 18:43	WAT	104-51-8	1

1-Sample spiked at 50ug/l

Lab Sample ID: S48577.07 (continued)
Sample Tag: MP002_04292011 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Hexachloroethane	57	ug/L	5	8260B	05/03/11 18:43	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	57	ug/L	5	8260B	05/03/11 18:43	WAT	96-12-8	1
1,2,4-Trichlorobenzene	51	ug/L	5	8260B	05/03/11 18:43	WAT	120-82-1	1
1,2,3-Trichlorobenzene	52	ug/L	5	8260B	05/03/11 18:43	WAT	87-61-6	1
Naphthalene	50	ug/L	5	8260B	05/03/11 18:43	WAT	91-20-3	1
2-Methylnaphthalene	50	ug/L	5	8260B	05/03/11 18:43	WAT	91-57-6	1

1-Sample spiked at 50ug/l

Analytical Laboratory Report

Lab Sample ID: S48577.08
Sample Tag: MP005_04292011
Collected Date/Time: 04/29/2011 10:50
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.2	IR
1	125ml Plastic	NaOH	Yes	4.2	IR
1	250ml Plastic	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	05/04/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	05/03/11 12:54	JDP	57-12-5	
Total Suspended Solids	12	mg/L	1	2540 D	05/04/11 16:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	05/04/11 14:34	SLS	7440-36-0	
Arsenic	0.005	mg/L	0.002	200.8	05/04/11 14:34	SLS	7440-38-2	
Barium	0.058	mg/L	0.005	200.8	05/04/11 14:34	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	05/05/11 14:03	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	05/04/11 14:34	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	05/04/11 14:34	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	05/04/11 14:34	SLS	7440-48-4	
Copper	0.005	mg/L	0.004	200.8	05/04/11 14:34	SLS	7440-50-8	
Lead	0.006	mg/L	0.003	200.8	05/04/11 14:34	SLS	7439-92-1	
Manganese	0.127	mg/L	0.005	200.8	05/04/11 14:34	SLS	7439-96-5	
Nickel	0.006	mg/L	0.005	200.8	05/04/11 14:34	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	05/04/11 14:34	SLS	7782-49-2	
Silver	0.0008	mg/L	0.0005	200.8	05/04/11 14:34	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	05/04/11 14:34	SLS	7440-28-0	
Vanadium	Not detected	mg/L	0.004	200.8	05/04/11 14:34	SLS	7440-62-2	
Zinc	0.023	mg/L	0.005	200.8	05/04/11 14:34	SLS	7440-66-6	

Analytical Laboratory Report

Lab Sample ID: S48577.09
Sample Tag: MP003_04292011
Collected Date/Time: 04/29/2011 11:10
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.2	IR
1	125ml Plastic	NaOH	Yes	4.2	IR
1	250ml Plastic	None	Yes	4.2	IR
2	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	05/04/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	05/03/11 12:56	JDP	57-12-5	
Total Suspended Solids	6	mg/L	1	2540 D	05/04/11 16:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	05/04/11 14:39	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	05/04/11 14:39	SLS	7440-38-2	
Barium	0.071	mg/L	0.005	200.8	05/04/11 14:39	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	05/05/11 14:05	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	05/04/11 14:39	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	05/04/11 14:39	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	05/04/11 14:39	SLS	7440-48-4	
Copper	0.004	mg/L	0.004	200.8	05/04/11 14:39	SLS	7440-50-8	
Lead	0.009	mg/L	0.003	200.8	05/04/11 14:39	SLS	7439-92-1	
Manganese	0.091	mg/L	0.005	200.8	05/04/11 14:39	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	05/04/11 14:39	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	05/04/11 14:39	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	05/04/11 14:39	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	05/04/11 14:39	SLS	7440-28-0	
Vanadium	Not detected	mg/L	0.004	200.8	05/04/11 14:39	SLS	7440-62-2	
Zinc	0.050	mg/L	0.005	200.8	05/04/11 14:39	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	05/03/11 15:03	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	05/03/11 15:03	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	05/03/11 15:03	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	05/03/11 15:03	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	05/03/11 15:03	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	05/03/11 15:03	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	05/03/11 15:03	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	05/03/11 15:03	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	05/03/11 15:03	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	05/03/11 15:03	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	75-35-4	

Lab Sample ID: S48577.09 (continued)
Sample Tag: MP003_04292011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Methylene chloride	Not detected	ug/L	5	8260B	05/03/11 15:03	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	05/03/11 15:03	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	05/03/11 15:03	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	05/03/11 15:03	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	107-06-2	
Trichloroethene	1	ug/L	1	8260B	05/03/11 15:03	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	05/03/11 15:03	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	05/03/11 15:03	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	05/03/11 15:03	WAT		
o-Xylene	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	05/03/11 15:03	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	05/03/11 15:03	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:03	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	05/03/11 15:03	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	05/03/11 15:03	WAT	96-12-8	

Lab Sample ID: S48577.09 (continued)
Sample Tag: MP003_04292011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	05/03/11 15:03	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	05/03/11 15:03	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	05/03/11 15:03	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	05/03/11 15:03	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S48577.10
Sample Tag: MP007_04292011
Collected Date/Time: 04/29/2011 11:45
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.2	IR
1	125ml Plastic	NaOH	Yes	4.2	IR
1	250ml Plastic	None	Yes	4.2	IR
2	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	05/04/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	05/03/11 12:58	JDP	57-12-5	
Total Suspended Solids	6	mg/L	1	2540 D	05/04/11 16:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	05/04/11 14:43	SLS	7440-36-0	
Arsenic	0.005	mg/L	0.002	200.8	05/04/11 14:43	SLS	7440-38-2	
Barium	0.030	mg/L	0.005	200.8	05/04/11 14:43	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	05/05/11 14:07	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	05/04/11 14:43	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	05/04/11 14:43	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	05/04/11 14:43	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	05/04/11 14:43	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	05/04/11 14:43	SLS	7439-92-1	
Manganese	0.023	mg/L	0.005	200.8	05/04/11 14:43	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	05/04/11 14:43	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	05/04/11 14:43	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	05/04/11 14:43	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	05/04/11 14:43	SLS	7440-28-0	
Vanadium	Not detected	mg/L	0.004	200.8	05/04/11 14:43	SLS	7440-62-2	
Zinc	0.012	mg/L	0.005	200.8	05/04/11 14:43	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	05/03/11 15:21	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	05/03/11 15:21	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	05/03/11 15:21	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	05/03/11 15:21	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	05/03/11 15:21	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	05/03/11 15:21	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	05/03/11 15:21	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	05/03/11 15:21	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	05/03/11 15:21	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	05/03/11 15:21	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	75-35-4	

Lab Sample ID: S48577.10 (continued)
Sample Tag: MP007_04292011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Methylene chloride	Not detected	ug/L	5	8260B	05/03/11 15:21	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	05/03/11 15:21	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	05/03/11 15:21	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	05/03/11 15:21	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	107-06-2	
Trichloroethene	1	ug/L	1	8260B	05/03/11 15:21	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	05/03/11 15:21	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	05/03/11 15:21	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	05/03/11 15:21	WAT		
o-Xylene	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	05/03/11 15:21	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	05/03/11 15:21	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:21	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	05/03/11 15:21	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	05/03/11 15:21	WAT	96-12-8	

Lab Sample ID: S48577.10 (continued)
Sample Tag: MP007_04292011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	05/03/11 15:21	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	05/03/11 15:21	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	05/03/11 15:21	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	05/03/11 15:21	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S48577.11
Sample Tag: EQB_04292011
Collected Date/Time: 04/29/2011 12:00
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.2	IR
1	125ml Plastic	NaOH	Yes	4.2	IR
2	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	05/04/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	05/03/11 13:02	JDP	57-12-5	
Metals								
Antimony	Not detected	mg/L	0.005	200.8	05/04/11 14:48	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	05/04/11 14:48	SLS	7440-38-2	
Barium	Not detected	mg/L	0.005	200.8	05/04/11 14:48	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	05/05/11 14:09	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	05/04/11 14:48	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	05/04/11 14:48	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	05/04/11 14:48	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	05/04/11 14:48	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	05/04/11 14:48	SLS	7439-92-1	
Manganese	Not detected	mg/L	0.005	200.8	05/04/11 14:48	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	05/04/11 14:48	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	05/04/11 14:48	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	05/04/11 14:48	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	05/04/11 14:48	SLS	7440-28-0	
Vanadium	Not detected	mg/L	0.004	200.8	05/04/11 14:48	SLS	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	05/04/11 14:48	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	05/03/11 15:40	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	05/03/11 15:40	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	05/03/11 15:40	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	05/03/11 15:40	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	05/03/11 15:40	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	05/03/11 15:40	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	05/03/11 15:40	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	05/03/11 15:40	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	05/03/11 15:40	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	05/03/11 15:40	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	05/03/11 15:40	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	156-60-5	

Lab Sample ID: S48577.11 (continued)
Sample Tag: EQB_04292011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethane	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	05/03/11 15:40	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	05/03/11 15:40	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	05/03/11 15:40	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	05/03/11 15:40	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	05/03/11 15:40	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	05/03/11 15:40	WAT		
o-Xylene	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	05/03/11 15:40	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	05/03/11 15:40	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:40	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	05/03/11 15:40	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	05/03/11 15:40	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	05/03/11 15:40	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	05/03/11 15:40	WAT	87-61-6	

Lab Sample ID: S48577.11 (continued)
Sample Tag: EQB_04292011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Naphthalene	Not detected	ug/L	5	8260B	05/03/11 15:40	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	05/03/11 15:40	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S48577.12
Sample Tag: DUP01_04292011
Collected Date/Time: 04/29/2011 :
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.2	IR
1	125ml Plastic	NaOH	Yes	4.2	IR
1	250ml Plastic	None	Yes	4.2	IR
2	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	05/04/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	05/03/11 13:04	JDP	57-12-5	
Total Suspended Solids	5	mg/L	1	2540 D	05/04/11 16:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	05/04/11 14:52	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	05/04/11 14:52	SLS	7440-38-2	
Barium	0.049	mg/L	0.005	200.8	05/04/11 14:52	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	05/05/11 14:11	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	05/04/11 14:52	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	05/04/11 14:52	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	05/04/11 14:52	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	05/04/11 14:52	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	05/04/11 14:52	SLS	7439-92-1	
Manganese	0.117	mg/L	0.005	200.8	05/04/11 14:52	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	05/04/11 14:52	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	05/04/11 14:52	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	05/04/11 14:52	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	05/04/11 14:52	SLS	7440-28-0	
Vanadium	Not detected	mg/L	0.004	200.8	05/04/11 14:52	SLS	7440-62-2	
Zinc	0.021	mg/L	0.005	200.8	05/04/11 14:52	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	05/03/11 15:58	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	05/03/11 15:58	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	05/03/11 15:58	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	05/03/11 15:58	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	05/03/11 15:58	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	05/03/11 15:58	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	05/03/11 15:58	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	05/03/11 15:58	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	05/03/11 15:58	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	05/03/11 15:58	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	75-35-4	

Lab Sample ID: S48577.12 (continued)
Sample Tag: DUP01_04292011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Methylene chloride	Not detected	ug/L	5	8260B	05/03/11 15:58	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	05/03/11 15:58	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	05/03/11 15:58	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	05/03/11 15:58	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	05/03/11 15:58	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	05/03/11 15:58	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	05/03/11 15:58	WAT		
o-Xylene	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	05/03/11 15:58	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	05/03/11 15:58	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	05/03/11 15:58	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	05/03/11 15:58	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	05/03/11 15:58	WAT	96-12-8	

Lab Sample ID: S48577.12 (continued)
Sample Tag: DUP01_04292011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	05/03/11 15:58	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	05/03/11 15:58	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	05/03/11 15:58	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	05/03/11 15:58	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S48577.13
Sample Tag: Trip Blank
Collected Date/Time: 04/29/2011 :
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	05/03/11 16:16	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	05/03/11 16:16	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	05/03/11 16:16	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	05/03/11 16:16	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	05/03/11 16:16	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	05/03/11 16:16	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	05/03/11 16:16	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	05/03/11 16:16	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	05/03/11 16:16	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	05/03/11 16:16	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	05/03/11 16:16	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	05/03/11 16:16	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	05/03/11 16:16	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	05/03/11 16:16	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	05/03/11 16:16	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	05/03/11 16:16	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	100-41-4	

Lab Sample ID: S48577.13 (continued)
Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
p,m-Xylene	Not detected	ug/L	2	8260B	05/03/11 16:16	WAT		
o-Xylene	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	05/03/11 16:16	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	05/03/11 16:16	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	05/03/11 16:16	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	05/03/11 16:16	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	05/03/11 16:16	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	05/03/11 16:16	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	05/03/11 16:16	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	05/03/11 16:16	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	05/03/11 16:16	WAT	91-57-6	

Merit Laboratories, Inc.

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Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

(**) Please also send copy of invoice to Mike Mak (ARCADIS)

REPORT TO

CONTACT NAME: Mike Brennan
COMPANY: ARCADIS U.S. Inc.
ADDRESS: 10559 Citation Drive, Suite 100
CITY: Brighton STATE: MI ZIP CODE: 48116
PHONE NO.: (See Contract for Details) FAX NO.: PO NO.:
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: Mr. Robert Hare / Mr. Grant Trigger ☐ SAME
COMPANY: Motors Liquidation Company / RACER Trust
ADDRESS: 401 S. Old Woodward Ave., Suite 370
CITY: Birmingham STATE: MI ZIP CODE: 48009
PHONE NO.: 313-486-2928 FAX NO.: — P.O. NO.: MLT-1295

PROJECT NO/NAME: R0064410.2011.00801
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Corri Zilio / Corri Zilio
TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER
DELIVERABLES REQUIRED: ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☒ OTHER EDD

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

SPECIAL INSTRUCTIONS/NOTES: (*) Metals include: Ag, As, Ba, Be, Cd, Cr (total), Co, Cu, Mn, Ni, Pb, Sb, Tl, Se, V, Zn

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOC	Cyanide	Total Metals (*)	Total Cyanide Soils	Dissolved Metals							
485770.01	4/29/11	0740	FB_04292011	L	4		2	1		1			X	X	X									
.02	4/29/11	0845	MP013_04292011	L	4	1		2		1				X	X	X	X							
.03	4/29/11	0900	MP010_04292011	L	5	1	2	1		1			X	X	X	X								
.04	4/29/11	0925	MP006_04292011	L	5	1	2	1		1			X	X	X	X								
.05/.06/.07	4/29/11	1030	MP002_04292011	L	15	3	6	3		3			X	X	X	X								MS/MSD
.08	4/29/11	1050	MP005_04292011	L	3	1		1		1				X	X	X								
.09	4/29/11	1110	MP003_04292011	L	5	1	2	1		1			X	X	X	X								
.10	4/29/11	1145	MP007_04292011	L	5	1	2	1		1			X	X	X	X								
.11	4/29/11	1200	EQB_04292011	L	4		2	1		1			X	X	X									
.12	4/29/11	—	DUP01_04292011	L	5	1	2	1		1			X	X	X	X								
13	—	—	Trip Blank	L	2		2						X											

RELINQUISHED BY SIGNATURE/ORGANIZATION	DATE	TIME	RELINQUISHED BY SIGNATURE/ORGANIZATION	DATE	TIME
Corri Zilio / ARCADIS	4/29/11	1310	[signature]	4-29-11	1410
RECEIVED BY: SIGNATURE/ORGANIZATION [signature]	4-29-11	1310	RECEIVED BY: SIGNATURE/ORGANIZATION [signature]	4-29-11	1410
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
RECEIVED BY SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS

NOTES: TEMP. ON ARRIVAL 2.2

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Analytical Laboratory Report

Report ID: S48758.01(01)
Generated on 05/23/2011

Report to

Attention: Mike Brennan
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S48758.01
Project: B0064410.2011.00801
Collected Date: 05/18/2011
Submitted Date/Time: 05/19/2011 14:30
Sampled by: Tony Maffeo
P.O. #: B0064410.2011.0

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (1 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S48758.01	Outfall 005 (051811)	Liquid	05/18/2011 10:15

Analytical Laboratory Report

Lab Sample ID: S48758.01
Sample Tag: Outfall 005 (051811)
Collected Date/Time: 05/18/2011 10:15
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	05/19/11 22:27	EMR		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	05/20/11 13:23	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	05/20/11 13:23	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	05/20/11 13:23	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	05/20/11 13:23	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	05/20/11 13:23	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	05/20/11 13:23	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	05/20/11 13:23	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	05/20/11 13:23	JANB	1336-36-3	

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C.O.C. PAGE # 1 OF 1

*Please also send a copy of invoicing to Micki Maki (ARCADIS)

REPORT TO

CONTACT NAME: Mike Brennan / ~~[illegible]~~
COMPANY: ARCADIS
ADDRESS: 10559 Citation Dr., Suite 100
CITY: Brighton STATE: Mi ZIP CODE: 48116
PHONE NO.: (SEE CONTRACT FOR DETAILS) FAX NO.: P.O. NO.:
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: Ms. Monica Wallingford ☐ SAME
COMPANY: RACER Trust
ADDRESS: 401 S. Old Woodward Ave., Suite 370
CITY: Birmingham STATE: MI ZIP CODE: 48009
PHONE NO.: 313.486.2928 FAX NO.: - P.O. NO.: MLT-1295

PROJECT NO./NAME: B0064410.2011.00801
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Tony Maffeo

TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☒ OTHER EDD

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED): TOTAL PCB

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	TOTAL PCB	SPECIAL INSTRUCTIONS/NOTES
487580	05/18/11	1015	OUTFALL 005 (051811)	L	2	2								5/17 - 5/18

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
Tony Maffeo / ARCADIS	5/19/11	1200
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME
[illegible]	5-19-11	1215
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
[illegible]	5-19-11	1430
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME
[illegible]	5-19-11	1430

SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS
SEAL NO. | SEAL INTACT YES ☐ NO ☐ | INITIALS

NOTES: TEMP. ON ARRIVAL 4.2

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Analytical Laboratory Report

Report ID: S48809.01(01)
Generated on 06/01/2011

Report to

Attention: Mike Brennan/ Liz Marsh/Amy C
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S48809.01
Project: B0064410.4011.00100
Collected Date: 05/25/2011
Submitted Date/Time: 05/25/2011 15:15
Sampled by: DLN
P.O. #: MLI0001

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
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Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (1 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S48809.01	Outfall 003 (052511)	Liquid	05/25/2011 10:30

Analytical Laboratory Report

Lab Sample ID: S48809.01
Sample Tag: Outfall 003 (052511)
Collected Date/Time: 05/25/2011 10:30
Matrix: Liquid
COC Reference: 60436

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	05/31/11 22:12	EMR		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	06/01/11 13:06	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	06/01/11 13:06	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	06/01/11 13:06	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	06/01/11 13:06	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	06/01/11 13:06	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	06/01/11 13:06	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	06/01/11 13:06	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	06/01/11 13:06	JANB	1336-36-3	

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C.O.C. PAGE # 1 OF 1

60436

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MIKE BRENNAN / LIZ MARSH / AMY CONOVER
COMPANY: ARCADIS
ADDRESS: 10559 Citation Dr Ste 100
CITY: BRIGHTON STATE: MI ZIP CODE: 48116
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: (SEE CONTRACT FOR DETAILS)

INVOICE TO

CONTACT NAME: MONICA WALLINGFORD ☐ SAME
COMPANY: RACER TRUST
ADDRESS: 401 S. Old Woodward Ste 370
CITY: BIRMINGHAM STATE: MI ZIP CODE: 48009
PHONE NO.: 313.486.2928 FAX NO.: P.O. NO.: MLI0001

PROJECT NO./NAME: B0064410.4011.00100
SAMPLER(S) - PLEASE PRINT/SIGN NAME:
TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER
DELIVERABLES REQUIRED: ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☒ OTHER EDD

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SO=SOLID SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED): T-PCB

SPECIAL INSTRUCTIONS/NOTES

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	T-PCB
48809.01	5/25/11	1030	OUTFALL 003 ~~(052511)~~ (052511)	L	2	2							X

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
	5/25/11	1330
RECEIVED BY: SIGNATURE/ORGANIZATION	5-25-11	1330
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
	5-25-11	1375
RECEIVED BY: SIGNATURE/ORGANIZATION	5-25-11	1375

SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS

NOTES: TEMP ON ARRIVAL 4.4

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Analytical Laboratory Report

Report ID: S48854.01(01)
Generated on 06/08/2011

Report to

Attention: Mike Brennan
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S48854.01-S48854.13
Project: Monitoring
Collected Date: 05/31/2011
Submitted Date/Time: 05/31/2011 15:10
Sampled by: DLN/AM
P.O. #: B0064410.2011.0

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (13 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S48854.01	MP001_05312011	Liquid	05/31/2011 10:40
S48854.02	MP002_05312011	Liquid	05/31/2011 11:15
S48854.03	MP002_05312011 MS	Liquid	05/31/2011 11:15
S48854.04	MP002_05312011 MSD	Liquid	05/31/2011 11:15
S48854.05	MP003_05312011	Liquid	05/31/2011 11:49
S48854.06	MP005_053312011	Liquid	05/31/2011 11:30
S48854.07	MP006_05312011	Liquid	05/31/2011 10:20
S48854.08	MP007_05312011	Liquid	05/31/2011 08:30
S48854.09	MP010_05312011	Liquid	05/31/2011 10:00
S48854.10	MP013_05312011	Liquid	05/31/2011 09:30
S48854.11	EB_05312011	Liquid	05/31/2011 13:30
S48854.12	FB_05312011	Liquid	05/31/2011 12:00
S48854.13	Dup001_05312011	Liquid	05/31/2011

Analytical Laboratory Report

Lab Sample ID: S48854.01
Sample Tag: MP001_05312011
Collected Date/Time: 05/31/2011 10:40
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	1.8	ng/L	0.51	1631E	06/07/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48854.02
Sample Tag: MP002_05312011
Collected Date/Time: 05/31/2011 11:15
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	2.7	ng/L	0.51	1631E	06/07/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48854.03
Sample Tag: MP002_05312011 MS
Collected Date/Time: 05/31/2011 11:15
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	7.7	ng/L	0.51	1631E	06/07/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48854.04
Sample Tag: MP002_05312011 MSD
Collected Date/Time: 05/31/2011 11:15
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	7.2	ng/L	0.51	1631E	06/07/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48854.05
Sample Tag: MP003_05312011
Collected Date/Time: 05/31/2011 11:49
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	2.5	ng/L	0.51	1631E	06/07/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48854.06
Sample Tag: MP005_053312011
Collected Date/Time: 05/31/2011 11:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	4.4	ng/L	0.51	1631E	06/07/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48854.07
Sample Tag: MP006_05312011
Collected Date/Time: 05/31/2011 10:20
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	1.8	ng/L	0.51	1631E	06/07/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48854.08
Sample Tag: MP007_05312011
Collected Date/Time: 05/31/2011 08:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	2.9	ng/L	0.51	1631E	06/07/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48854.09
Sample Tag: MP010_05312011
Collected Date/Time: 05/31/2011 10:00
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	6.9	ng/L	0.51	1631E	06/07/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48854.10
Sample Tag: MP013_05312011
Collected Date/Time: 05/31/2011 09:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	5.7	ng/L	0.51	1631E	06/07/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48854.11
Sample Tag: EB_05312011
Collected Date/Time: 05/31/2011 13:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	Not detected	ng/L	0.51	1631E	06/07/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48854.12
Sample Tag: FB_05312011
Collected Date/Time: 05/31/2011 12:00
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	Not detected	ng/L	0.51	1631E	06/07/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S48854.13
Sample Tag: Dup001_05312011
Collected Date/Time: 05/31/2011 :
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	1.4	ng/L	0.51	1631E	06/07/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # _____ OF _____

*Please also send a copy of invoicing to Micki Maki (ARCADIS)

REPORT TO

CONTACT NAME: Mike Brennan / Micki Maki / Tony Maffeo
COMPANY: ARCADIS
ADDRESS: 10559 Citation Dr., Suite 100
CITY: Brighton STATE: Mi ZIP CODE: 48116
PHONE NO.: (See Contract for DETAILS) FAX NO.: P.O. NO.:
E-MAIL ADDRESS: LOGIN NO.:

INVOICE TO

CONTACT NAME: Ms. Monica Wallingford ☐ SAME
COMPANY: RACER Trust
ADDRESS: 401 S. Old Woodward Ave., Suite 370
CITY: Birmingham STATE: MI ZIP CODE: 48009
PHONE NO.: 313.486.2928 FAX NO.: P.O. NO.: MLT-1295

PROJECT NO./NAME:
SAMPLER(S) - PLEASE PRINT/SIGN NAME: DLN/AM

TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ STANDARD ☐ OTHER
DELIVERABLES REQUIRED: ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☒ OTHER EDD

MATRIX CODE: GW=GROUNDWATER, WW=WASTEWATER, S=SOIL, L=LIQUID, SD=SOLID, SL=SLUDGE, O=OIL, A=AIR, W=WASTE, M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED): Hg (Low)

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Hg (Low)	SPECIAL INSTRUCTIONS/NOTES
48854.01	05/31/11	10:40	MP001_05312011	L	4	4							X	
.02/.03/.04	05/31/11	11:15	MP002_05312011	L	4	4							X	MS/MSD
.05	05/31/11	11:49	MP003_05312011	L	4	4							X	
.06	05/31/11	11:30	MP005_053312011	L	4	4							X	
.07	05/31/11	10:20	MP006_05312011	L	4	4							X	
.08	05/31/11	08:30	MP007_05312011	L	4	4							X	
.09	05/31/11	10:00	MP010_05312011	L	4	4							X	
.10	05/31/11	09:30	MP013_05312011	L	4	4							X	
.11	05/31/11	13:30	EB_05312011	L	4	4							X	
.12	05/31/11	12:00	FB_05312011	L	4	4							X	
.13	05/31/11		Dup001_05312011	L	4	4							X	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE 5/31/11	TIME 1520	RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE 5-31-11	TIME 1520
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE 5-31-11	TIME 1520	RECEIVED BY: SIGNATURE/ORGANIZATION	DATE 5/31/11	TIME 1520
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO. / SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL 4.6
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO. / SEAL INTACT YES ☐ NO ☐	INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Fibertec
environmental
services

Tuesday, June 07, 2011

Fibertec Project Number:	44784
Project Identification:	48854 /
Submittal Date:	05/31/2011

Ms. Paula Shaw
Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Dear Ms. Shaw,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note samples will be disposed of 30 days after reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48854.01**	Chain of Custody:	**62840**
Client Project Name:	**48854**	Sample No:	**1**	Collect Date:	**05/31/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**10:40**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 44784-001** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**1.8**		ng/L	0.51	1.0	06/07/11	PM11F07A	06/07/11	M511F07B

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48854.02**	Chain of Custody:	**62840**
Client Project Name:	**48854**	Sample No:	**2**	Collect Date:	**05/31/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**11:15**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 44784-002** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**2.7**		ng/L	0.51	1.0	06/07/11	PM11F07A	06/07/11	M511F07B

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48854.03 MS**	Chain of Custody:	**62840**
Client Project Name:	**48854**	Sample No:	**3**	Collect Date:	**05/31/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**11:15**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 44784-003** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**7.7**		ng/L	0.51	1.0	06/07/11	PM11F07A	06/07/11	M511F07B

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48854.04 MSD**	Chain of Custody:	**62840**
Client Project Name:	**48854**	Sample No:	**4**	Collect Date:	**05/31/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**11:15**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 44784-004** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**7.2**		ng/L	0.51	1.0	06/07/11	PM11F07A	06/07/11	M511F07B

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48854.05**	Chain of Custody:	**62840**
Client Project Name:	**48854**	Sample No:	**5**	Collect Date:	**05/31/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**11:49**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 44784-005** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**2.5**		ng/L	0.51	1.0	06/07/11	PM11F07A	06/07/11	M511F07B

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48854.06**	Chain of Custody:	**62840**
Client Project Name:	**48854**	Sample No:	**6**	Collect Date:	**05/31/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**11:30**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 44784-006** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**4.4**		ng/L	0.51	1.0	06/07/11	PM11F07A	06/07/11	M511F07B

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48854.07**	Chain of Custody:	**62840**
Client Project Name:	**48854**	Sample No:	**7**	Collect Date:	**05/31/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**10:20**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 44784-007** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**1.8**		ng/L	0.51	1.0	06/07/11	PM11F07A	06/07/11	M511F07B

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48854.08**	Chain of Custody:	**62840**
Client Project Name:	**48854**	Sample No:	**8**	Collect Date:	**05/31/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**08:30**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 44784-008** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**2.9**		ng/L	0.51	1.0	06/07/11	PM11F07A	06/07/11	M511F07B

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48854.09**	Chain of Custody:	**62840**
Client Project Name:	**48854**	Sample No:	**9**	Collect Date:	**05/31/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**10:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 44784-009** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**6.9**		ng/L	0.51	1.0	06/07/11	PM11F07A	06/07/11	M511F07B

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48854.10**	Chain of Custody:	**62840**
Client Project Name:	**48854**	Sample No:	**10**	Collect Date:	**05/31/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:30**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 44784-010** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**5.7**		ng/L	0.51	1.0	06/07/11	PM11F07A	06/07/11	M511F07B

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48854.11**	Chain of Custody:	**62840**
Client Project Name:	**48854**	Sample No:	**11**	Collect Date:	**05/31/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**13:30**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 44784-011** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	U		ng/L	0.51	1.0	06/07/11	PM11F07A	06/07/11	M511F07B

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48854.12**	Chain of Custody:	**62840**
Client Project Name:	**48854**	Sample No:	**12**	Collect Date:	**05/31/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**12:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 44784-012** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	U		ng/L	0.51	1.0	06/07/11	PM11F07A	06/07/11	M511F07B

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**48854.13**	Chain of Custody:	**62841**
Client Project Name:	**48854**	Sample No:	**13**	Collect Date:	**05/31/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 44784-013** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**1.4**		ng/L	0.51	1.0	06/07/11	PM11F07A	06/07/11	M511F07B

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QA limits

Exception Summary:

ACCREDITED IN ACCORDANCE WITH nelac

Accreditation Number:

E-10395

Analytical Laboratory Report

Revised Report

Report ID: S48857.01(02)
Generated on 12/13/2011
Replaces report S48857.01(01) generated on 06/09/2011

Report to

Attention: Mike Brennan
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S48857.01-S48857.14
Project: B0064410.2011.00801
Collected Date: 05/31/2011
Submitted Date/Time: 05/31/2011 15:10
Sampled by: DLN/AM
P.O. #: B0064410.2011.0

* Thallium reported instead of titanium.

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Sample Summary (14 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S48857.01	FB_05312011	Liquid	05/31/2011 12:00
S48857.02	MP001_05312011	Liquid	05/31/2011 10:40
S48857.03	MP002_05312011	Liquid	05/31/2011 11:15
S48857.04	MP002_05312011 MS	Liquid	05/31/2011 11:15
S48857.05	MP002_05312011 MSD	Liquid	05/31/2011 11:15
S48857.06	MP003_05312011	Liquid	05/31/2011 11:49
S48857.07	MP005_05312011	Liquid	05/31/2011 11:30
S48857.08	MP006_05312011	Liquid	05/31/2011 10:20
S48857.09	MP007_05312011	Liquid	05/31/2011 08:30
S48857.10	EB_05312011	Liquid	05/31/2011 13:30
S48857.11	MP010_05312011	Liquid	05/31/2011 10:00
S48857.12	MP013_05312011	Liquid	05/31/2011 09:30
S48857.13	DUP001_05312011	Liquid	05/31/2011
S48857.14	Trip_05312011	Liquid	05/31/2011

Analytical Laboratory Report

Revised Report

Lab Sample ID: S48857.01
Sample Tag: FB_05312011
Collected Date/Time: 05/31/2011 12:00
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR
1	125ml Plastic	NaOH	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	06/08/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	06/06/11 13:08	JDP	57-12-5	
Metals								
Antimony	Not detected	mg/L	0.005	200.8	06/08/11 13:38	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	06/08/11 13:38	SLS	7440-38-2	
Barium	Not detected	mg/L	0.005	200.8	06/08/11 13:38	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	06/09/11 13:38	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	06/08/11 13:38	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	06/08/11 13:38	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	06/08/11 13:38	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	06/08/11 13:38	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	06/08/11 13:38	SLS	7439-92-1	
Manganese	Not detected	mg/L	0.005	200.8	06/08/11 13:38	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	06/08/11 13:38	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	06/08/11 13:38	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	06/08/11 13:38	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	06/08/11 13:38	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	06/08/11 13:38	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	06/08/11 13:38	SLS	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	06/08/11 13:38	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	06/02/11 15:33	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	06/02/11 15:33	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	06/02/11 15:33	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	06/02/11 15:33	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	06/02/11 15:33	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	06/02/11 15:33	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	06/02/11 15:33	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	06/02/11 15:33	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	06/02/11 15:33	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	06/02/11 15:33	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	06/02/11 15:33	WAT	75-09-2	

Lab Sample ID: S48857.01 (continued)
Sample Tag: FB_05312011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	06/02/11 15:33	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	06/02/11 15:33	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	06/02/11 15:33	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	06/02/11 15:33	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	06/02/11 15:33	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	06/02/11 15:33	WAT		
o-Xylene	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	06/02/11 15:33	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	06/02/11 15:33	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	06/02/11 15:33	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	06/02/11 15:33	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	06/02/11 15:33	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	06/02/11 15:33	WAT	120-82-1	

Lab Sample ID: S48857.01 (continued)
Sample Tag: FB_05312011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	06/02/11 15:33	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	06/02/11 15:33	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	06/02/11 15:33	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S48857.02
Sample Tag: MP001_05312011
Collected Date/Time: 05/31/2011 10:40
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR
1	125ml Plastic	NaOH	Yes	4.6	IR
1	250ml Plastic	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	06/08/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	06/06/11 13:10	JDP	57-12-5	
Total Suspended Solids	3	mg/L	1	2540 D	06/06/11 14:30	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	06/08/11 13:42	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	06/08/11 13:42	SLS	7440-38-2	
Barium	0.066	mg/L	0.005	200.8	06/08/11 13:42	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	06/09/11 13:40	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	06/08/11 13:42	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	06/08/11 13:42	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	06/08/11 13:42	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	06/08/11 13:42	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	06/08/11 13:42	SLS	7439-92-1	
Manganese	0.010	mg/L	0.005	200.8	06/08/11 13:42	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	06/08/11 13:42	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	06/08/11 13:42	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	06/08/11 13:42	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	06/08/11 13:42	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	06/08/11 13:42	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	06/08/11 13:42	SLS	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	06/08/11 13:42	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	06/02/11 15:52	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	06/02/11 15:52	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	06/02/11 15:52	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	06/02/11 15:52	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	06/02/11 15:52	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	06/02/11 15:52	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	06/02/11 15:52	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	06/02/11 15:52	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	06/02/11 15:52	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	06/02/11 15:52	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	75-69-4	

Lab Sample ID: S48857.02 (continued)
Sample Tag: MP001_05312011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	06/02/11 15:52	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	06/02/11 15:52	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	06/02/11 15:52	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	06/02/11 15:52	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	06/02/11 15:52	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	06/02/11 15:52	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	06/02/11 15:52	WAT		
o-Xylene	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	06/02/11 15:52	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	06/02/11 15:52	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	06/02/11 15:52	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	06/02/11 15:52	WAT	67-72-1	

Lab Sample ID: S48857.02 (continued)
Sample Tag: MP001_05312011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	06/02/11 15:52	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	06/02/11 15:52	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	06/02/11 15:52	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	06/02/11 15:52	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	06/02/11 15:52	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S48857.03
Sample Tag: MP002_05312011
Collected Date/Time: 05/31/2011 11:15
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR
1	125ml Plastic	NaOH	Yes	4.6	IR
1	250ml Plastic	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	06/08/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	06/06/11 13:12	JDP	57-12-5	
Total Suspended Solids	11	mg/L	1	2540 D	06/06/11 14:30	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	06/08/11 14:01	SLS	7440-36-0	
Arsenic	0.006	mg/L	0.002	200.8	06/08/11 14:01	SLS	7440-38-2	
Barium	0.254	mg/L	0.005	200.8	06/08/11 14:01	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	06/09/11 13:47	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	06/08/11 14:01	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	06/08/11 14:01	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	06/08/11 14:01	SLS	7440-48-4	
Copper	0.006	mg/L	0.004	200.8	06/08/11 14:01	SLS	7440-50-8	
Lead	0.006	mg/L	0.003	200.8	06/08/11 14:01	SLS	7439-92-1	
Manganese	0.454	mg/L	0.005	200.8	06/08/11 14:01	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	06/08/11 14:01	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	06/08/11 14:01	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	06/08/11 14:01	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	06/08/11 14:01	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	06/08/11 14:01	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	06/08/11 14:01	SLS	7440-62-2	
Zinc	0.015	mg/L	0.005	200.8	06/08/11 14:01	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	06/06/11 14:44	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	06/06/11 14:44	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	06/06/11 14:44	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	06/06/11 14:44	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	06/06/11 14:44	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	06/06/11 14:44	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	06/06/11 14:44	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	06/06/11 14:44	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	06/06/11 14:44	WAT	74-83-9	
Chloroethane	12	ug/L	5	8260B	06/06/11 14:44	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	75-69-4	

Lab Sample ID: S48857.03 (continued)
Sample Tag: MP002_05312011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	06/06/11 14:44	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	156-60-5	
1,1-Dichloroethane	8	ug/L	1	8260B	06/06/11 14:44	WAT	75-34-3	
cis-1,2-Dichloroethene	5	ug/L	1	8260B	06/06/11 14:44	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	06/06/11 14:44	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	74-97-5	
1,1,1-Trichloroethane	4	ug/L	1	8260B	06/06/11 14:44	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	06/06/11 14:44	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	06/06/11 14:44	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	107-06-2	
Trichloroethene	3	ug/L	1	8260B	06/06/11 14:44	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	06/06/11 14:44	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	06/06/11 14:44	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	100-41-4	
p,m-Xylene	2	ug/L	2	8260B	06/06/11 14:44	WAT		
o-Xylene	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	06/06/11 14:44	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	06/06/11 14:44	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	06/06/11 14:44	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	06/06/11 14:44	WAT	67-72-1	

Lab Sample ID: S48857.03 (continued)
Sample Tag: MP002_05312011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	06/06/11 14:44	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	06/06/11 14:44	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	06/06/11 14:44	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	06/06/11 14:44	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	06/06/11 14:44	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S48857.04
Sample Tag: MP002_05312011 MS
Collected Date/Time: 05/31/2011 11:15
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR
1	125ml Plastic	NaOH	Yes	4.6	IR
1	250ml Plastic	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	06/08/11 01:00	SLR		
Inorganics								
Cyanide	0.093	mg/L	0.005	335.4/4500-CN-E	06/06/11 13:16	JDP	57-12-5	
Total Suspended Solids	12	mg/L	1	2540 D	06/06/11 14:30	DJS		
Metals								
Antimony	0.252	mg/L	0.005	200.8	06/08/11 14:06	SLS	7440-36-0	
Arsenic	0.278	mg/L	0.002	200.8	06/08/11 14:06	SLS	7440-38-2	
Barium	0.530	mg/L	0.005	200.8	06/08/11 14:06	SLS	7440-39-3	
Beryllium	0.264	mg/L	0.001	200.8	06/09/11 13:49	SLS	7440-41-7	
Cadmium	0.2479	mg/L	0.0005	200.8	06/08/11 14:06	SLS	7440-43-9	
Chromium	0.275	mg/L	0.005	200.8	06/08/11 14:06	SLS	7440-47-3	
Cobalt	0.267	mg/L	0.005	200.8	06/08/11 14:06	SLS	7440-48-4	
Copper	0.264	mg/L	0.004	200.8	06/08/11 14:06	SLS	7440-50-8	
Lead	0.240	mg/L	0.003	200.8	06/08/11 14:06	SLS	7439-92-1	
Manganese	0.729	mg/L	0.005	200.8	06/08/11 14:06	SLS	7439-96-5	
Nickel	0.260	mg/L	0.005	200.8	06/08/11 14:06	SLS	7440-02-0	
Selenium	0.246	mg/L	0.005	200.8	06/08/11 14:06	SLS	7782-49-2	
Silver	0.2240	mg/L	0.0005	200.8	06/08/11 14:06	SLS	7440-22-4	
Thallium	0.239	mg/L	0.001	200.8	06/08/11 14:06	SLS	7440-28-0	
Titanium	0.29	mg/L	0.02	200.8	06/08/11 14:06	SLS	7440-32-6	
Vanadium	0.293	mg/L	0.004	200.8	06/08/11 14:06	SLS	7440-62-2	
Zinc	0.272	mg/L	0.005	200.8	06/08/11 14:06	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	52	ug/L	10	8260B	06/06/11 17:28	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	8260B	06/06/11 17:28	WAT	67-64-1	1
Methyl iodide	51	ug/L	1	8260B	06/06/11 17:28	WAT	74-88-4	1
Carbon disulfide	50	ug/L	5	8260B	06/06/11 17:28	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	49	ug/L	5	8260B	06/06/11 17:28	WAT	1634-04-4	1
Acrylonitrile	49	ug/L	2	8260B	06/06/11 17:28	WAT	107-13-1	1
2-Butanone (MEK)	30	ug/L	25	8260B	06/06/11 17:28	WAT	78-93-3	1
Dichlorodifluoromethane	43	ug/L	5	8260B	06/06/11 17:28	WAT	75-71-8	1
Chloromethane	44	ug/L	5	8260B	06/06/11 17:28	WAT	74-87-3	1
Vinyl chloride	46	ug/L	1	8260B	06/06/11 17:28	WAT	75-01-4	1
Bromomethane	59	ug/L	5	8260B	06/06/11 17:28	WAT	74-83-9	1
Chloroethane	71	ug/L	5	8260B	06/06/11 17:28	WAT	75-00-3	1

1-Sample spiked at 50ug/l

Lab Sample ID: S48857.04 (continued)
Sample Tag: MP002_05312011 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Trichlorofluoromethane	55	ug/L	1	8260B	06/06/11 17:28	WAT	75-69-4	1
1,1-Dichloroethene	50	ug/L	1	8260B	06/06/11 17:28	WAT	75-35-4	1
Methylene chloride	51	ug/L	5	8260B	06/06/11 17:28	WAT	75-09-2	1
trans-1,2-Dichloroethene	51	ug/L	1	8260B	06/06/11 17:28	WAT	156-60-5	1
1,1-Dichloroethane	56	ug/L	1	8260B	06/06/11 17:28	WAT	75-34-3	1
cis-1,2-Dichloroethene	56	ug/L	1	8260B	06/06/11 17:28	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	8260B	06/06/11 17:28	WAT	109-99-9	1
Chloroform	51	ug/L	1	8260B	06/06/11 17:28	WAT	67-66-3	1
Bromochloromethane	51	ug/L	1	8260B	06/06/11 17:28	WAT	74-97-5	1
1,1,1-Trichloroethane	55	ug/L	1	8260B	06/06/11 17:28	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	06/06/11 17:28	WAT	108-10-1	1
2-Hexanone	Not detected	ug/L	50	8260B	06/06/11 17:28	WAT	591-78-6	1
Carbon tetrachloride	52	ug/L	1	8260B	06/06/11 17:28	WAT	56-23-5	1
Benzene	50	ug/L	1	8260B	06/06/11 17:28	WAT	71-43-2	1
1,2-Dichloroethane	51	ug/L	1	8260B	06/06/11 17:28	WAT	107-06-2	1
Trichloroethene	52	ug/L	1	8260B	06/06/11 17:28	WAT	79-01-6	1
1,2-Dichloropropane	51	ug/L	1	8260B	06/06/11 17:28	WAT	78-87-5	1
Bromodichloromethane	52	ug/L	1	8260B	06/06/11 17:28	WAT	75-27-4	1
Dibromomethane	52	ug/L	5	8260B	06/06/11 17:28	WAT	74-95-3	1
cis-1,3-Dichloropropene	51	ug/L	1	8260B	06/06/11 17:28	WAT	10061-01-5	1
Toluene	51	ug/L	1	8260B	06/06/11 17:28	WAT	108-88-3	1
trans-1,3-Dichloropropene	46	ug/L	1	8260B	06/06/11 17:28	WAT	10061-02-6	1
1,1,2-Trichloroethane	50	ug/L	1	8260B	06/06/11 17:28	WAT	79-00-5	1
Tetrachloroethene	50	ug/L	1	8260B	06/06/11 17:28	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	40	ug/L	1	8260B	06/06/11 17:28	WAT	110-57-6	1
Dibromochloromethane	48	ug/L	5	8260B	06/06/11 17:28	WAT	124-48-1	1
1,2-Dibromoethane	50	ug/L	1	8260B	06/06/11 17:28	WAT	106-93-4	1
Chlorobenzene	50	ug/L	1	8260B	06/06/11 17:28	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	53	ug/L	1	8260B	06/06/11 17:28	WAT	630-20-6	1
Ethylbenzene	51	ug/L	1	8260B	06/06/11 17:28	WAT	100-41-4	1
p,m-Xylene	103	ug/L	2	8260B	06/06/11 17:28	WAT		1
o-Xylene	51	ug/L	1	8260B	06/06/11 17:28	WAT	95-47-6	1
Styrene	42	ug/L	1	8260B	06/06/11 17:28	WAT	100-42-5	1
Isopropylbenzene	50	ug/L	5	8260B	06/06/11 17:28	WAT	98-82-8	1
Bromoform	44	ug/L	1	8260B	06/06/11 17:28	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	50	ug/L	1	8260B	06/06/11 17:28	WAT	79-34-5	1
1,2,3-Trichloropropane	50	ug/L	1	8260B	06/06/11 17:28	WAT	96-18-4	1
n-Propylbenzene	50	ug/L	1	8260B	06/06/11 17:28	WAT	103-65-1	1
Bromobenzene	51	ug/L	1	8260B	06/06/11 17:28	WAT	108-86-1	1
1,3,5-Trimethylbenzene	48	ug/L	1	8260B	06/06/11 17:28	WAT	108-67-8	1
tert-Butylbenzene	51	ug/L	1	8260B	06/06/11 17:28	WAT	98-06-6	1
1,2,4-Trimethylbenzene	49	ug/L	1	8260B	06/06/11 17:28	WAT	95-63-6	1
sec-Butylbenzene	49	ug/L	1	8260B	06/06/11 17:28	WAT	135-98-8	1
p-Isopropyltoluene	49	ug/L	5	8260B	06/06/11 17:28	WAT	99-87-6	1
1,3-Dichlorobenzene	49	ug/L	1	8260B	06/06/11 17:28	WAT	541-73-1	1
1,4-Dichlorobenzene	48	ug/L	1	8260B	06/06/11 17:28	WAT	106-46-7	1
1,2-Dichlorobenzene	49	ug/L	1	8260B	06/06/11 17:28	WAT	95-50-1	1
1,2,3-Trimethylbenzene	48	ug/L	1	8260B	06/06/11 17:28	WAT	526-73-8	1

1-Sample spiked at 50ug/l

Lab Sample ID: S48857.04 (continued)
Sample Tag: MP002_05312011 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	49	ug/L	1	8260B	06/06/11 17:28	WAT	104-51-8	1
Hexachloroethane	44	ug/L	5	8260B	06/06/11 17:28	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	45	ug/L	5	8260B	06/06/11 17:28	WAT	96-12-8	1
1,2,4-Trichlorobenzene	50	ug/L	5	8260B	06/06/11 17:28	WAT	120-82-1	1
1,2,3-Trichlorobenzene	52	ug/L	5	8260B	06/06/11 17:28	WAT	87-61-6	1
Naphthalene	52	ug/L	5	8260B	06/06/11 17:28	WAT	91-20-3	1
2-Methylnaphthalene	47	ug/L	5	8260B	06/06/11 17:28	WAT	91-57-6	1

1-Sample spiked at 50ug/l

Analytical Laboratory Report

Revised Report

Lab Sample ID: S48857.05
Sample Tag: MP002_05312011 MSD
Collected Date/Time: 05/31/2011 11:15
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR
1	125ml Plastic	NaOH	Yes	4.6	IR
1	250ml Plastic	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	06/08/11 01:00	SLR		
Inorganics								
Cyanide	0.095	mg/L	0.005	335.4/4500-CN-E	06/06/11 13:18	JDP	57-12-5	
Total Suspended Solids	13	mg/L	1	2540 D	06/06/11 14:30	DJS		
Metals								
Antimony	0.261	mg/L	0.005	200.8	06/08/11 14:13	SLS	7440-36-0	
Arsenic	0.283	mg/L	0.002	200.8	06/08/11 14:13	SLS	7440-38-2	
Barium	0.534	mg/L	0.005	200.8	06/08/11 14:13	SLS	7440-39-3	
Beryllium	0.275	mg/L	0.001	200.8	06/09/11 13:51	SLS	7440-41-7	
Cadmium	0.2584	mg/L	0.0005	200.8	06/08/11 14:13	SLS	7440-43-9	
Chromium	0.281	mg/L	0.005	200.8	06/08/11 14:13	SLS	7440-47-3	
Cobalt	0.270	mg/L	0.005	200.8	06/08/11 14:13	SLS	7440-48-4	
Copper	0.266	mg/L	0.004	200.8	06/08/11 14:13	SLS	7440-50-8	
Lead	0.250	mg/L	0.003	200.8	06/08/11 14:13	SLS	7439-92-1	
Manganese	0.729	mg/L	0.005	200.8	06/08/11 14:13	SLS	7439-96-5	
Nickel	0.264	mg/L	0.005	200.8	06/08/11 14:13	SLS	7440-02-0	
Selenium	0.252	mg/L	0.005	200.8	06/08/11 14:13	SLS	7782-49-2	
Silver	0.2384	mg/L	0.0005	200.8	06/08/11 14:13	SLS	7440-22-4	
Thallium	0.245	mg/L	0.001	200.8	06/08/11 14:13	SLS	7440-28-0	
Titanium	0.30	mg/L	0.02	200.8	06/08/11 14:13	SLS	7440-32-6	
Vanadium	0.296	mg/L	0.004	200.8	06/08/11 14:13	SLS	7440-62-2	
Zinc	0.274	mg/L	0.005	200.8	06/08/11 14:13	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	57	ug/L	10	8260B	06/06/11 17:46	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	8260B	06/06/11 17:46	WAT	67-64-1	1
Methyl iodide	56	ug/L	1	8260B	06/06/11 17:46	WAT	74-88-4	1
Carbon disulfide	57	ug/L	5	8260B	06/06/11 17:46	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	54	ug/L	5	8260B	06/06/11 17:46	WAT	1634-04-4	1
Acrylonitrile	55	ug/L	2	8260B	06/06/11 17:46	WAT	107-13-1	1
2-Butanone (MEK)	33	ug/L	25	8260B	06/06/11 17:46	WAT	78-93-3	1
Dichlorodifluoromethane	46	ug/L	5	8260B	06/06/11 17:46	WAT	75-71-8	1
Chloromethane	48	ug/L	5	8260B	06/06/11 17:46	WAT	74-87-3	1
Vinyl chloride	50	ug/L	1	8260B	06/06/11 17:46	WAT	75-01-4	1
Bromomethane	66	ug/L	5	8260B	06/06/11 17:46	WAT	74-83-9	1
Chloroethane	80	ug/L	5	8260B	06/06/11 17:46	WAT	75-00-3	1

1-Sample spiked at 50ug/l

Lab Sample ID: S48857.05 (continued)
Sample Tag: MP002_05312011 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Trichlorofluoromethane	61	ug/L	1	8260B	06/06/11 17:46	WAT	75-69-4	1
1,1-Dichloroethene	55	ug/L	1	8260B	06/06/11 17:46	WAT	75-35-4	1
Methylene chloride	57	ug/L	5	8260B	06/06/11 17:46	WAT	75-09-2	1
trans-1,2-Dichloroethene	56	ug/L	1	8260B	06/06/11 17:46	WAT	156-60-5	1
1,1-Dichloroethane	63	ug/L	1	8260B	06/06/11 17:46	WAT	75-34-3	1
cis-1,2-Dichloroethene	62	ug/L	1	8260B	06/06/11 17:46	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	8260B	06/06/11 17:46	WAT	109-99-9	1
Chloroform	57	ug/L	1	8260B	06/06/11 17:46	WAT	67-66-3	1
Bromochloromethane	57	ug/L	1	8260B	06/06/11 17:46	WAT	74-97-5	1
1,1,1-Trichloroethane	62	ug/L	1	8260B	06/06/11 17:46	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	55	ug/L	50	8260B	06/06/11 17:46	WAT	108-10-1	1
2-Hexanone	Not detected	ug/L	50	8260B	06/06/11 17:46	WAT	591-78-6	1
Carbon tetrachloride	59	ug/L	1	8260B	06/06/11 17:46	WAT	56-23-5	1
Benzene	57	ug/L	1	8260B	06/06/11 17:46	WAT	71-43-2	1
1,2-Dichloroethane	56	ug/L	1	8260B	06/06/11 17:46	WAT	107-06-2	1
Trichloroethene	58	ug/L	1	8260B	06/06/11 17:46	WAT	79-01-6	1
1,2-Dichloropropane	56	ug/L	1	8260B	06/06/11 17:46	WAT	78-87-5	1
Bromodichloromethane	58	ug/L	1	8260B	06/06/11 17:46	WAT	75-27-4	1
Dibromomethane	58	ug/L	5	8260B	06/06/11 17:46	WAT	74-95-3	1
cis-1,3-Dichloropropene	59	ug/L	1	8260B	06/06/11 17:46	WAT	10061-01-5	1
Toluene	57	ug/L	1	8260B	06/06/11 17:46	WAT	108-88-3	1
trans-1,3-Dichloropropene	54	ug/L	1	8260B	06/06/11 17:46	WAT	10061-02-6	1
1,1,2-Trichloroethane	57	ug/L	1	8260B	06/06/11 17:46	WAT	79-00-5	1
Tetrachloroethene	56	ug/L	1	8260B	06/06/11 17:46	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	46	ug/L	1	8260B	06/06/11 17:46	WAT	110-57-6	1
Dibromochloromethane	54	ug/L	5	8260B	06/06/11 17:46	WAT	124-48-1	1
1,2-Dibromoethane	56	ug/L	1	8260B	06/06/11 17:46	WAT	106-93-4	1
Chlorobenzene	55	ug/L	1	8260B	06/06/11 17:46	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	60	ug/L	1	8260B	06/06/11 17:46	WAT	630-20-6	1
Ethylbenzene	56	ug/L	1	8260B	06/06/11 17:46	WAT	100-41-4	1
p,m-Xylene	114	ug/L	2	8260B	06/06/11 17:46	WAT		1
o-Xylene	57	ug/L	1	8260B	06/06/11 17:46	WAT	95-47-6	1
Styrene	48	ug/L	1	8260B	06/06/11 17:46	WAT	100-42-5	1
Isopropylbenzene	56	ug/L	5	8260B	06/06/11 17:46	WAT	98-82-8	1
Bromoform	52	ug/L	1	8260B	06/06/11 17:46	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	55	ug/L	1	8260B	06/06/11 17:46	WAT	79-34-5	1
1,2,3-Trichloropropane	56	ug/L	1	8260B	06/06/11 17:46	WAT	96-18-4	1
n-Propylbenzene	56	ug/L	1	8260B	06/06/11 17:46	WAT	103-65-1	1
Bromobenzene	57	ug/L	1	8260B	06/06/11 17:46	WAT	108-86-1	1
1,3,5-Trimethylbenzene	54	ug/L	1	8260B	06/06/11 17:46	WAT	108-67-8	1
tert-Butylbenzene	57	ug/L	1	8260B	06/06/11 17:46	WAT	98-06-6	1
1,2,4-Trimethylbenzene	56	ug/L	1	8260B	06/06/11 17:46	WAT	95-63-6	1
sec-Butylbenzene	53	ug/L	1	8260B	06/06/11 17:46	WAT	135-98-8	1
p-Isopropyltoluene	54	ug/L	5	8260B	06/06/11 17:46	WAT	99-87-6	1
1,3-Dichlorobenzene	54	ug/L	1	8260B	06/06/11 17:46	WAT	541-73-1	1
1,4-Dichlorobenzene	53	ug/L	1	8260B	06/06/11 17:46	WAT	106-46-7	1
1,2-Dichlorobenzene	54	ug/L	1	8260B	06/06/11 17:46	WAT	95-50-1	1
1,2,3-Trimethylbenzene	52	ug/L	1	8260B	06/06/11 17:46	WAT	526-73-8	1

1-Sample spiked at 50ug/l

Lab Sample ID: S48857.05 (continued)
Sample Tag: MP002_05312011 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	53	ug/L	1	8260B	06/06/11 17:46	WAT	104-51-8	1
Hexachloroethane	50	ug/L	5	8260B	06/06/11 17:46	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	51	ug/L	5	8260B	06/06/11 17:46	WAT	96-12-8	1
1,2,4-Trichlorobenzene	57	ug/L	5	8260B	06/06/11 17:46	WAT	120-82-1	1
1,2,3-Trichlorobenzene	59	ug/L	5	8260B	06/06/11 17:46	WAT	87-61-6	1
Naphthalene	59	ug/L	5	8260B	06/06/11 17:46	WAT	91-20-3	1
2-Methylnaphthalene	58	ug/L	5	8260B	06/06/11 17:46	WAT	91-57-6	1

1-Sample spiked at 50ug/l

Analytical Laboratory Report

Revised Report

Lab Sample ID: S48857.06
Sample Tag: MP003_05312011
Collected Date/Time: 05/31/2011 11:49
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR
1	125ml Plastic	NaOH	Yes	4.6	IR
1	250ml Plastic	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	06/08/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	06/06/11 13:20	JDP	57-12-5	
Total Suspended Solids	6	mg/L	1	2540 D	06/06/11 14:30	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	06/08/11 13:47	SLS	7440-36-0	
Arsenic	0.003	mg/L	0.002	200.8	06/08/11 13:47	SLS	7440-38-2	
Barium	0.125	mg/L	0.005	200.8	06/08/11 13:47	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	06/09/11 13:42	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	06/08/11 13:47	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	06/08/11 13:47	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	06/08/11 13:47	SLS	7440-48-4	
Copper	0.004	mg/L	0.004	200.8	06/08/11 13:47	SLS	7440-50-8	
Lead	0.006	mg/L	0.003	200.8	06/08/11 13:47	SLS	7439-92-1	
Manganese	0.197	mg/L	0.005	200.8	06/08/11 13:47	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	06/08/11 13:47	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	06/08/11 13:47	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	06/08/11 13:47	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	06/08/11 13:47	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	06/08/11 13:47	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	06/08/11 13:47	SLS	7440-62-2	
Zinc	0.032	mg/L	0.005	200.8	06/08/11 13:47	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	06/02/11 16:31	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	06/02/11 16:31	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	06/02/11 16:31	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	06/02/11 16:31	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	06/02/11 16:31	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	06/02/11 16:31	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	06/02/11 16:31	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	06/02/11 16:31	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	06/02/11 16:31	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	06/02/11 16:31	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	75-69-4	

Lab Sample ID: S48857.06 (continued)
Sample Tag: MP003_05312011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	06/02/11 16:31	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	06/02/11 16:31	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	06/02/11 16:31	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	06/02/11 16:31	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	107-06-2	
Trichloroethene	2	ug/L	1	8260B	06/02/11 16:31	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	06/02/11 16:31	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	06/02/11 16:31	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	06/02/11 16:31	WAT		
o-Xylene	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	06/02/11 16:31	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	06/02/11 16:31	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	06/02/11 16:31	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	06/02/11 16:31	WAT	67-72-1	

Lab Sample ID: S48857.06 (continued)
Sample Tag: MP003_05312011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	06/02/11 16:31	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	06/02/11 16:31	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	06/02/11 16:31	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	06/02/11 16:31	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	06/02/11 16:31	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S48857.07
Sample Tag: MP005_05312011
Collected Date/Time: 05/31/2011 11:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.6	IR
1	125ml Plastic	NaOH	Yes	4.6	IR
1	250ml Plastic	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	06/08/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	06/06/11 13:22	JDP	57-12-5	
Total Suspended Solids	7	mg/L	1	2540 D	06/06/11 14:30	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	06/08/11 13:52	SLS	7440-36-0	
Arsenic	0.008	mg/L	0.002	200.8	06/08/11 13:52	SLS	7440-38-2	
Barium	0.073	mg/L	0.005	200.8	06/08/11 13:52	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	06/09/11 13:44	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	06/08/11 13:52	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	06/08/11 13:52	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	06/08/11 13:52	SLS	7440-48-4	
Copper	0.004	mg/L	0.004	200.8	06/08/11 13:52	SLS	7440-50-8	
Lead	0.004	mg/L	0.003	200.8	06/08/11 13:52	SLS	7439-92-1	
Manganese	0.195	mg/L	0.005	200.8	06/08/11 13:52	SLS	7439-96-5	
Nickel	0.005	mg/L	0.005	200.8	06/08/11 13:52	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	06/08/11 13:52	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	06/08/11 13:52	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	06/08/11 13:52	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	06/08/11 13:52	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	06/08/11 13:52	SLS	7440-62-2	
Zinc	0.009	mg/L	0.005	200.8	06/08/11 13:52	SLS	7440-66-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S48857.08
Sample Tag: MP006_05312011
Collected Date/Time: 05/31/2011 10:20
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR
1	125ml Plastic	NaOH	Yes	4.6	IR
1	250ml Plastic	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	06/08/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	06/06/11 13:24	JDP	57-12-5	
Total Suspended Solids	5	mg/L	1	2540 D	06/06/11 14:30	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	06/08/11 13:56	SLS	7440-36-0	
Arsenic	0.002	mg/L	0.002	200.8	06/08/11 13:56	SLS	7440-38-2	
Barium	0.065	mg/L	0.005	200.8	06/08/11 13:56	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	06/09/11 13:45	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	06/08/11 13:56	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	06/08/11 13:56	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	06/08/11 13:56	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	06/08/11 13:56	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	06/08/11 13:56	SLS	7439-92-1	
Manganese	0.235	mg/L	0.005	200.8	06/08/11 13:56	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	06/08/11 13:56	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	06/08/11 13:56	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	06/08/11 13:56	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	06/08/11 13:56	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	06/08/11 13:56	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	06/08/11 13:56	SLS	7440-62-2	
Zinc	0.007	mg/L	0.005	200.8	06/08/11 13:56	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	06/02/11 16:50	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	06/02/11 16:50	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	06/02/11 16:50	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	06/02/11 16:50	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	06/02/11 16:50	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	06/02/11 16:50	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	06/02/11 16:50	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	06/02/11 16:50	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	06/02/11 16:50	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	06/02/11 16:50	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	75-69-4	

Lab Sample ID: S48857.08 (continued)
Sample Tag: MP006_05312011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	06/02/11 16:50	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	06/02/11 16:50	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	06/02/11 16:50	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	06/02/11 16:50	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	06/02/11 16:50	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	06/02/11 16:50	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	06/02/11 16:50	WAT		
o-Xylene	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	06/02/11 16:50	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	06/02/11 16:50	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	06/02/11 16:50	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	06/02/11 16:50	WAT	67-72-1	

Lab Sample ID: S48857.08 (continued)
Sample Tag: MP006_05312011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	06/02/11 16:50	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	06/02/11 16:50	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	06/02/11 16:50	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	06/02/11 16:50	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	06/02/11 16:50	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S48857.09
Sample Tag: MP007_05312011
Collected Date/Time: 05/31/2011 08:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR
1	125ml Plastic	NaOH	Yes	4.6	IR
1	250ml Plastic	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	06/08/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	06/06/11 13:26	JDP	57-12-5	
Total Suspended Solids	26	mg/L	1	2540 D	06/06/11 14:30	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	06/08/11 14:28	SLS	7440-36-0	
Arsenic	0.002	mg/L	0.002	200.8	06/08/11 14:28	SLS	7440-38-2	
Barium	0.052	mg/L	0.005	200.8	06/08/11 14:28	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	06/09/11 13:57	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	06/08/11 14:28	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	06/08/11 14:28	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	06/08/11 14:28	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	06/08/11 14:28	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	06/08/11 14:28	SLS	7439-92-1	
Manganese	0.025	mg/L	0.005	200.8	06/08/11 14:28	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	06/08/11 14:28	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	06/08/11 14:28	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	06/08/11 14:28	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	06/08/11 14:28	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	06/08/11 14:28	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	06/08/11 14:28	SLS	7440-62-2	
Zinc	0.008	mg/L	0.005	200.8	06/08/11 14:28	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	06/02/11 17:10	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	06/02/11 17:10	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	06/02/11 17:10	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	06/02/11 17:10	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	06/02/11 17:10	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	06/02/11 17:10	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	06/02/11 17:10	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	06/02/11 17:10	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	06/02/11 17:10	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	06/02/11 17:10	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	75-69-4	

Lab Sample ID: S48857.09 (continued)
Sample Tag: MP007_05312011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	06/02/11 17:10	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	156-60-5	
1,1-Dichloroethane	4	ug/L	1	8260B	06/02/11 17:10	WAT	75-34-3	
cis-1,2-Dichloroethene	2	ug/L	1	8260B	06/02/11 17:10	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	06/02/11 17:10	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	06/02/11 17:10	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	06/02/11 17:10	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	107-06-2	
Trichloroethene	2	ug/L	1	8260B	06/02/11 17:10	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	06/02/11 17:10	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	06/02/11 17:10	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	06/02/11 17:10	WAT		
o-Xylene	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	06/02/11 17:10	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	06/02/11 17:10	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	06/02/11 17:10	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	06/02/11 17:10	WAT	67-72-1	

Lab Sample ID: S48857.09 (continued)
Sample Tag: MP007_05312011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	06/02/11 17:10	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	06/02/11 17:10	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	06/02/11 17:10	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	06/02/11 17:10	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	06/02/11 17:10	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S48857.10
Sample Tag: EB_05312011
Collected Date/Time: 05/31/2011 13:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR
1	125ml Plastic	NaOH	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	06/08/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	06/06/11 13:28	JDP	57-12-5	
Metals								
Antimony	Not detected	mg/L	0.005	200.8	06/08/11 14:40	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	06/08/11 14:40	SLS	7440-38-2	
Barium	Not detected	mg/L	0.005	200.8	06/08/11 14:40	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	06/09/11 13:59	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	06/08/11 14:40	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	06/08/11 14:40	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	06/08/11 14:40	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	06/08/11 14:40	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	06/08/11 14:40	SLS	7439-92-1	
Manganese	Not detected	mg/L	0.005	200.8	06/08/11 14:40	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	06/08/11 14:40	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	06/08/11 14:40	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	06/08/11 14:40	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	06/08/11 14:40	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	06/08/11 14:40	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	06/08/11 14:40	SLS	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	06/08/11 14:40	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	06/02/11 17:29	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	06/02/11 17:29	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	06/02/11 17:29	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	06/02/11 17:29	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	06/02/11 17:29	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	06/02/11 17:29	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	06/02/11 17:29	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	06/02/11 17:29	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	06/02/11 17:29	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	06/02/11 17:29	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	06/02/11 17:29	WAT	75-09-2	

Lab Sample ID: S48857.10 (continued)
Sample Tag: EB_05312011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	06/02/11 17:29	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	06/02/11 17:29	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	06/02/11 17:29	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	06/02/11 17:29	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	06/02/11 17:29	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	06/02/11 17:29	WAT		
o-Xylene	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	06/02/11 17:29	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	06/02/11 17:29	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	06/02/11 17:29	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	06/02/11 17:29	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	06/02/11 17:29	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	06/02/11 17:29	WAT	120-82-1	

Lab Sample ID: S48857.10 (continued)
Sample Tag: EB_05312011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	06/02/11 17:29	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	06/02/11 17:29	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	06/02/11 17:29	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S48857.11
Sample Tag: MP010_05312011
Collected Date/Time: 05/31/2011 10:00
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR
1	125ml Plastic	NaOH	Yes	4.6	IR
1	250ml Plastic	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	06/08/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	06/06/11 13:32	JDP	57-12-5	
Total Suspended Solids	1	mg/L	1	2540 D	06/06/11 14:30	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	06/08/11 14:45	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	06/08/11 14:45	SLS	7440-38-2	
Barium	0.082	mg/L	0.005	200.8	06/08/11 14:45	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	06/09/11 14:01	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	06/08/11 14:45	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	06/08/11 14:45	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	06/08/11 14:45	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	06/08/11 14:45	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	06/08/11 14:45	SLS	7439-92-1	
Manganese	0.084	mg/L	0.005	200.8	06/08/11 14:45	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	06/08/11 14:45	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	06/08/11 14:45	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	06/08/11 14:45	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	06/08/11 14:45	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	06/08/11 14:45	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	06/08/11 14:45	SLS	7440-62-2	
Zinc	0.010	mg/L	0.005	200.8	06/08/11 14:45	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	06/02/11 17:49	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	06/02/11 17:49	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	06/02/11 17:49	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	06/02/11 17:49	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	06/02/11 17:49	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	06/02/11 17:49	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	06/02/11 17:49	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	06/02/11 17:49	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	06/02/11 17:49	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	06/02/11 17:49	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	75-69-4	

Lab Sample ID: S48857.11 (continued)
Sample Tag: MP010_05312011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	06/02/11 17:49	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	75-34-3	
cis-1,2-Dichloroethene	2	ug/L	1	8260B	06/02/11 17:49	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	06/02/11 17:49	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	06/02/11 17:49	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	06/02/11 17:49	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	107-06-2	
Trichloroethene	1	ug/L	1	8260B	06/02/11 17:49	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	06/02/11 17:49	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	06/02/11 17:49	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	06/02/11 17:49	WAT		
o-Xylene	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	06/02/11 17:49	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	06/02/11 17:49	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	06/02/11 17:49	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	06/02/11 17:49	WAT	67-72-1	

Lab Sample ID: S48857.11 (continued)
Sample Tag: MP010_05312011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	06/02/11 17:49	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	06/02/11 17:49	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	06/02/11 17:49	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	06/02/11 17:49	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	06/02/11 17:49	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S48857.12
Sample Tag: MP013_05312011
Collected Date/Time: 05/31/2011 09:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.6	IR
1	125ml Plastic	NaOH	Yes	4.6	IR
1	250ml Plastic	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	06/08/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	06/06/11 13:34	JDP	57-12-5	
Total Suspended Solids	61	mg/L	1	2540 D	06/06/11 14:30	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	06/08/11 14:49	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	06/08/11 14:49	SLS	7440-38-2	
Barium	0.124	mg/L	0.005	200.8	06/08/11 14:49	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	06/09/11 14:03	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	06/08/11 14:49	SLS	7440-43-9	
Chromium	0.051	mg/L	0.005	200.8	06/08/11 14:49	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	06/08/11 14:49	SLS	7440-48-4	
Copper	0.035	mg/L	0.004	200.8	06/08/11 14:49	SLS	7440-50-8	
Lead	0.248	mg/L	0.003	200.8	06/08/11 14:49	SLS	7439-92-1	
Manganese	0.693	mg/L	0.005	200.8	06/08/11 14:49	SLS	7439-96-5	
Nickel	0.010	mg/L	0.005	200.8	06/08/11 14:49	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	06/08/11 14:49	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	06/08/11 14:49	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	06/08/11 14:49	SLS	7440-28-0	
Titanium	0.03	mg/L	0.02	200.8	06/08/11 14:49	SLS	7440-32-6	
Vanadium	0.005	mg/L	0.004	200.8	06/08/11 14:49	SLS	7440-62-2	
Zinc	0.117	mg/L	0.005	200.8	06/08/11 14:49	SLS	7440-66-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S48857.13
Sample Tag: DUP001_05312011
Collected Date/Time: 05/31/2011 :
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.6	IR
1	125ml Plastic	NaOH	Yes	4.6	IR
2	40ml Glass	HCL	Yes	4.6	IR
1	250ml Plastic	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	06/08/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	06/06/11 13:36	JDP	57-12-5	
Total Suspended Solids	<1	mg/L	1	2540 D	06/06/11 14:30	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	06/08/11 14:54	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	06/08/11 14:54	SLS	7440-38-2	
Barium	0.085	mg/L	0.005	200.8	06/08/11 14:54	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	06/09/11 14:05	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	06/08/11 14:54	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	06/08/11 14:54	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	06/08/11 14:54	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	06/08/11 14:54	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	06/08/11 14:54	SLS	7439-92-1	
Manganese	0.083	mg/L	0.005	200.8	06/08/11 14:54	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	06/08/11 14:54	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	06/08/11 14:54	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	06/08/11 14:54	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	06/08/11 14:54	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	06/08/11 14:54	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	06/08/11 14:54	SLS	7440-62-2	
Zinc	0.008	mg/L	0.005	200.8	06/08/11 14:54	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	06/02/11 18:08	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	06/02/11 18:08	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	06/02/11 18:08	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	06/02/11 18:08	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	06/02/11 18:08	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	06/02/11 18:08	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	06/02/11 18:08	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	06/02/11 18:08	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	06/02/11 18:08	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	06/02/11 18:08	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	75-69-4	

Lab Sample ID: S48857.13 (continued)
Sample Tag: DUP001_05312011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	06/02/11 18:08	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	75-34-3	
cis-1,2-Dichloroethene	1	ug/L	1	8260B	06/02/11 18:08	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	06/02/11 18:08	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	06/02/11 18:08	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	06/02/11 18:08	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	107-06-2	
Trichloroethene	1	ug/L	1	8260B	06/02/11 18:08	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	06/02/11 18:08	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	06/02/11 18:08	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	06/02/11 18:08	WAT		
o-Xylene	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	06/02/11 18:08	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	06/02/11 18:08	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	06/02/11 18:08	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	06/02/11 18:08	WAT	67-72-1	

Lab Sample ID: S48857.13 (continued)
Sample Tag: DUP001_05312011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	06/02/11 18:08	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	06/02/11 18:08	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	06/02/11 18:08	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	06/02/11 18:08	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	06/02/11 18:08	WAT	91-57-6	

Lab Sample ID: S48857.14
Sample Tag: Trip_05312011
Collected Date/Time: 05/31/2011 :
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	06/02/11 18:28	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	06/02/11 18:28	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	06/02/11 18:28	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	06/02/11 18:28	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	06/02/11 18:28	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	06/02/11 18:28	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	06/02/11 18:28	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	06/02/11 18:28	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	06/02/11 18:28	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	06/02/11 18:28	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	06/02/11 18:28	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	06/02/11 18:28	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	06/02/11 18:28	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	06/02/11 18:28	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	06/02/11 18:28	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	06/02/11 18:28	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	100-41-4	

Lab Sample ID: S48857.14 (continued)
Sample Tag: Trip_05312011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
p,m-Xylene	Not detected	ug/L	2	8260B	06/02/11 18:28	WAT		
o-Xylene	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	06/02/11 18:28	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	06/02/11 18:28	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	06/02/11 18:28	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	06/02/11 18:28	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	06/02/11 18:28	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	06/02/11 18:28	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	06/02/11 18:28	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	06/02/11 18:28	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	06/02/11 18:28	WAT	91-57-6	

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6393
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

*Please also send a copy of invoicing to Micki Maki (ARCADIS)

REPORT TO

CONTACT NAME: Mike Brennan / ~~Micki Maki / Tony Maffeo~~
COMPANY: ARCADIS
ADDRESS: 10559 Citation Dr., Suite 100
CITY: Brighton STATE: Mi ZIP CODE: 48116
PHONE NO.: (SEE CONTRACT FOR DETAILS) FAX NO.: P.O. NO.:
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: Ms. Monica Wallingford ☐ SAME
COMPANY: RACER Trust
ADDRESS: 401 S. Old Woodward Ave., Suite 370
CITY: Birmingham STATE: MI ZIP CODE: 48009
PHONE NO.: 313.486.2928 FAX NO.: - P.O. NO.: MLT-1295

PROJECT NO./NAME: B0064410.2011.00801
SAMPLER(S) - PLEASE PRINT/SIGN NAME: [illegible]
TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER
DELIVERABLES REQUIRED: ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☒ OTHER EDD

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SO=SOLID SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

SPECIAL INSTRUCTIONS/NOTES: * Metals include: Ag, As, Ba, Be, Cd, Cr (total), Co, Cu, Mn, Ni, Pb, Sb, Ti, Se, V, and Zn.

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	METALS *	VOCs	CYANIDE	TSS								SPECIAL INSTRUCTIONS/NOTES
40857.01	05/31/11	1200	FB_05312011	L	4		2	1		1				X	X	X								
.02	05/31/11	1040	MP001_05312011	L	5	1	2	1		1			X	X	X	X								
.04/05/03	05/31/11	1115	MP002_05312011	L	5	1	2	1		1			X	X	X	X								MS/MSD
.06	05/31/11	1149	MP003_05132011	L	5	1	2	1		1			X	X	X	X								
.07	05/31/11	1130	MP005_05312011	L	3	1		1		1			X		X	X								
.08	05/31/11	1020	MP006_05312011	L	5	1	2	1		1			X	X	X	X								
.09	05/31/11	0830	MP007_05312011	L	5	1	2	1		1			X	X	X	X								
.10	05/31/11	1330	EB_05312011	L	~~4~~ 7	1	2	1		1			X	X	X	X								
.11	05/31/11	1000	MP010_05312011	L	5	1	2	1		1			X	X	X	X								
.12	05/31/11	0930	MP013_05312011	L	3	1		1		1			X		X	X								
.13	05/31/11	—	DUP001_05312011	L	5	1	2	1		1			X	X	X	X								
.14	5/31/11	—	Trip_05312011	L	2		2							X										

RELINQUISHED BY: SIGNATURE/ORGANIZATION	ARCADIS	DATE 5/31/11	TIME 1415	RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE 5-31-11 TIME 1570
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 5/31/11	TIME 1620	RECEIVED BY: SIGNATURE/ORGANIZATION	DATE 31 May 11 TIME 1520
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME	SEAL NO. / SEAL INTACT YES ☐ NO ☐ / INITIALS	NOTES: TEMP. ON ARRIVAL 1/6
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME	SEAL NO. / SEAL INTACT YES ☐ NO ☐ / INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Analytical Laboratory Report

Report ID: S49112.01(01)
Generated on 06/24/2011

Report to

Attention: Mike Brennan/ Liz Marsh/Amy C
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S49112.01
Project: B0064410.4011.00001
Collected Date: 06/21/2011
Submitted Date/Time: 06/22/2011 14:00
Sampled by: DLN
P.O. #: MLI0001

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (1 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S49112.01	Outfall 003A (062111)	Liquid	06/21/2011 08:20

Analytical Laboratory Report

Lab Sample ID: S49112.01
Sample Tag: Outfall 003A (062111)
Collected Date/Time: 06/21/2011 08:20
Matrix: Liquid
COC Reference: 66276

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	06/23/11 22:40	EMR		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	06/24/11 10:43	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	06/24/11 10:43	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	06/24/11 10:43	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	06/24/11 10:43	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	06/24/11 10:43	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	06/24/11 10:43	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	06/24/11 10:43	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	06/24/11 10:43	JANB	1336-36-3	

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

66276

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MIKE BRENNAN / LIZ MARSH / AMY CONOVER
COMPANY: ARCADIS
ADDRESS: 10559 CITATION DR STE 100
CITY: BRIGHTON STATE: MI ZIP CODE: 48116
PHONE NO.: (SEE CONTRACT FOR DETAILS) FAX NO.: P.O. NO.:
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: MS. MONICA WALLINGFORD ☐ SAME
COMPANY: RACER TRUST
ADDRESS: 401 S. OLD WOODWARD STE 370
CITY: BIRMINGHAM STATE: MI ZIP CODE: 48009
PHONE NO.: FAX NO.: P.O. NO.: MLI-0001

PROJECT NO./NAME: BOCA410: 4011.0001
SAMPLER(S) - PLEASE PRINT/SIGN NAME: [illegible]
TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER
DELIVERABLES REQUIRED: ☒ STANDARD ☐ LEVEL II ☐ LEVEL III ☒ OTHER EDD

MATRIX CODE: GW=GROUNDWATER, SL=SLUDGE, WW=WASTEWATER, O=OIL, S=SOIL, A=AIR, L=LIQUID, W=WASTE, SD=SOLID, M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED): T-PCB

SPECIAL INSTRUCTIONS/NOTES: CC INVOICING TO MICKI MARI (ARCADIS)

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCL	HNO_3	H_2SO_4	NaOH	NaOH	OTHER	T-PCB	
49112.01	6/21/11	0820	OUTFALL 008A (06/21/11) (06211)	L	2	2							X	SAMPLER RAN 06/20/11 - 0810 to 6/21/11 0810
														DRY WEATHER

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
[signature]	6/22/11	1250
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME
[signature]	6-22-11	1250
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
[signature]	6-22-11	1400
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME
[signature]	6-22-11	1400

SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES. TEMP. ON ARRIVAL 4.4
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Analytical Laboratory Report

Report ID: S49154.01(01)
Generated on 07/01/2011

Report to

Attention: Mike Brennan/Micki Macki/Tony M.
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S49154.01-S49154.15
Project: B0064410.2011.00801
Collected Date: 06/27/2011
Submitted Date/Time: 06/27/2011 14:40
Sampled by: DLN, AO
P.O. #: B0064410.2011.0

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (15 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S49154.01	Trip Blank	Liquid	06/27/2011 00:01
S49154.02	MP001_062711	Liquid	06/27/2011 11:20
S49154.03	MP002_062711	Liquid	06/27/2011 11:55
S49154.04	MP003_062711	Liquid	06/27/2011 12:30
S49154.05	MP005_062711	Liquid	06/27/2011 12:10
S49154.06	MP006_062711	Liquid	06/27/2011 10:50
S49154.07	MP007_062711	Liquid	06/27/2011 09:00
S49154.08	MP009_062711	Liquid	06/27/2011 11:37
S49154.09	MP010_062711	Liquid	06/27/2011 10:30
S49154.10	MP010_062711 MS	Liquid	06/27/2011 10:30
S49154.11	MP010_062711 MSD	Liquid	06/27/2011 10:30
S49154.12	MP013_062711	Liquid	06/27/2011 09:50
S49154.13	DUP01_062711	Liquid	06/27/2011 00:01
S49154.14	Equip_Blank_062711	Liquid	06/27/2011 12:40
S49154.15	Field_Blank_062711	Liquid	06/27/2011 13:00

Analytical Laboratory Report

Lab Sample ID: S49154.01
Sample Tag: Trip Blank
Collected Date/Time: 06/27/2011 00:01
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	Not detected	ng/L	0.51	1631E	06/29/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49154.02
Sample Tag: MP001_062711
Collected Date/Time: 06/27/2011 11:20
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	2.9	ng/L	0.51	1631E	06/29/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49154.03
Sample Tag: MP002_062711
Collected Date/Time: 06/27/2011 11:55
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	88	ng/L	5.1	1631E	06/29/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49154.04
Sample Tag: MP003_062711
Collected Date/Time: 06/27/2011 12:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	1.8	ng/L	0.51	1631E	06/29/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49154.05
Sample Tag: MP005_062711
Collected Date/Time: 06/27/2011 12:10
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	8.1	ng/L	0.51	1631E	06/29/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49154.06
Sample Tag: MP006_062711
Collected Date/Time: 06/27/2011 10:50
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	1.5	ng/L	0.51	1631E	06/29/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49154.07
Sample Tag: MP007_062711
Collected Date/Time: 06/27/2011 09:00
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	1.0	ng/L	0.51	1631E	06/29/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49154.08
Sample Tag: MP009_062711
Collected Date/Time: 06/27/2011 11:37
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	36	ng/L	5.1	1631E	06/29/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49154.09
Sample Tag: MP010_062711
Collected Date/Time: 06/27/2011 10:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	2.0	ng/L	0.51	1631E	06/29/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49154.10
Sample Tag: MP010_062711 MS
Collected Date/Time: 06/27/2011 10:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	3.5	ng/L	0.51	1631E	06/29/11 12:00	Fiber	7439-97-6	O1

O-Analysis performed by outside laboratory. See attached report. 1-Spiked at 2.5 ng/L

Analytical Laboratory Report

Lab Sample ID: S49154.11
Sample Tag: MP010_062711 MSD
Collected Date/Time: 06/27/2011 10:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	3.8	ng/L	0.51	1631E	06/29/11 12:00	Fiber	7439-97-6	O1

O-Analysis performed by outside laboratory. See attached report. 1-Spiked at 2.5 ng/L

Analytical Laboratory Report

Lab Sample ID: S49154.12
Sample Tag: MP013_062711
Collected Date/Time: 06/27/2011 09:50
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	42	ng/L	5.1	1631E	06/29/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49154.13
Sample Tag: DUP01_062711
Collected Date/Time: 06/27/2011 00:01
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	1.2	ng/L	0.51	1631E	06/29/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49154.14
Sample Tag: Equip_Blank_062711
Collected Date/Time: 06/27/2011 12:40
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	9.2	ng/L	2.0	1631E	06/29/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49154.15
Sample Tag: Field_Blank_062711
Collected Date/Time: 06/27/2011 13:00
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	Not detected	ng/L	0.51	1631E	06/29/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # _____ OF _____

*Please also send a copy of invoicing to Micki Maki (ARCADIS)

REPORT TO

CONTACT NAME: Mike Brennan / Micki Maki / Tony Maffeo
COMPANY: ARCADIS
ADDRESS: 10559 Citation Dr., Suite 100
CITY: Brighton STATE: Mi ZIP CODE: 48116
PHONE NO.: SEE CONTRACT FOR DETAILS FAX NO.: P.O. NO.:
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: Ms. Monica Wallingford ☐ SAME
COMPANY: RACER Trust
ADDRESS: 401 S. Old Woodward Ave., Suite 370
CITY: Birmingham STATE: MI ZIP CODE: 48009
PHONE NO.: 313.486.2928 FAX NO.: - P.O. NO.: MLT-1295

PROJECT NO./NAME: B0064410.2011.00801
SAMPLER(S) - PLEASE PRINT/SIGN NAME: DLN, AO

TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☐ OTHER EDD

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED): VOC LEVEL II

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOC LEVEL II	SPECIAL INSTRUCTIONS/NOTES
49154.01			Trip Blank	L	4	4							X	
.02	06/27/11	11:20	MP001_062711	L	4	4							X	
.03	06/27/11	11:55	MP002_062711	L	4	4							X	
.04	06/27/11	12:30	MP003_062711	L	4	4							X	
.05	06/27/11	12:10	MP005_062711 ⊞	L	4	4							X	
.06	06/27/11	10:50	MP006_062711 ⊞	L	4	4							X	
.07	06/27/11	09:00	MP007_062711 ⊞	L	4	4							X	
.08	06/27/11	11:37	MP009_062711 ⊞	L	4	4							X	
.09/.10/.11	06/27/11	10:30	MP010_062711 ⊞	L	12	12							X	
6-27-11 BR .10/.11/.12	06/27/11	09:50	MP013_062711 ⊞	L	4	4							X	
.13	06/27/11		DUP01_062711 ⊞	L	4	4							X	
.12	06/27/11	12:40	Equip_Blank_062711	L	4	4							X	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE 6-27-11	TIME 1350	RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE 6-27-11	TIME 1940
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE 6-27-11	TIME 1350	RECEIVED BY: SIGNATURE/ORGANIZATION	DATE 27 JUN 11	TIME 1940
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO. / SEAL INTACT YES ☐ NO ☐ / INITIALS	NOTES:	TEMP. ON ARRIVAL 4.6
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO. / SEAL INTACT YES ☐ NO ☐ / INITIALS		

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # _____ OF _____

*Please also send a copy of invoicing to Micki Maki (ARCADIS)

REPORT TO

CONTACT NAME: Mike Brennan / Micki Maki / Tony Maffeo
COMPANY: ARCADIS
ADDRESS: 10559 Citation Dr., Suite 100
CITY: Brighton STATE: Mi ZIP CODE: 48116
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: Ms. Monica Wallingford ☐ SAME
COMPANY: RACER Trust
ADDRESS: 401 S. Old Woodward Ave., Suite 370
CITY: Birmingham STATE: MI ZIP CODE: 48009
PHONE NO.: 313.486.2928 FAX NO.: - P.O. NO.: MLT-1295

PROJECT NO./NAME: B0064410.2011.00801
SAMPLER(S) - PLEASE PRINT/SIGN NAME: DLN, AO

TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☐ OTHER EDD

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED): Lead

SPECIAL INSTRUCTIONS/NOTES

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Lead									
49154.15	06/27/11	13:00	Field_Blank_062711	L	4	4							X									

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS

NOTES: TEMP. ON ARRIVAL 4.6

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Fibertec
environmental
services

Friday, July 01, 2011

Fibertec Project Number:	45180
Project Identification:	49154 /
Submittal Date:	06/27/2011

Ms. Paula Shaw
Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Dear Ms. Shaw,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note samples will be disposed of 30 days after reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49154.01-TRIP BLANK**	Chain of Custody:	**62849**
Client Project Name:	**49154**	Sample No:	**1**	Collect Date:	**06/27/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45180-001** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	U		ng/L	0.51	1.0	06/29/11	PM11F29D	06/29/11	M511F29B

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49154.02**	Chain of Custody:	**62849**
Client Project Name:	**49154**	Sample No:	**2**	Collect Date:	**06/27/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**11:20**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45180-002** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**2.9**		ng/L	0.51	1.0	06/29/11	PM11F29D	06/29/11	M511F29B

Analytical Laboratory Report
Laboratory Project Number: 45180
Laboratory Sample Number: 45180-003

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49154.03**	Chain of Custody:	**62849**
Client Project Name:	**49154**	Sample No:	**3**	Collect Date:	**06/27/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**11:55**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45180-003** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**88**		ng/L	5.1	10	06/29/11	PM11F29D	06/29/11	M511F29B

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49154.04**	Chain of Custody:	**62849**
Client Project Name:	**49154**	Sample No:	**4**	Collect Date:	**06/27/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**12:30**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45180-004** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**1.8**		ng/L	0.51	1.0	06/29/11	PM11F29D	06/29/11	M511F29B

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49154.05**	Chain of Custody:	**62849**
Client Project Name:	**49154**	Sample No:	**5**	Collect Date:	**06/27/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**12:10**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45180-005** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**8.1**		ng/L	0.51	1.0	06/29/11	PM11F29D	06/29/11	M511F29B

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49154.06**	Chain of Custody:	**62849**
Client Project Name:	**49154**	Sample No:	**6**	Collect Date:	**06/27/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**10:50**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45180-006** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**1.5**		ng/L	0.51	1.0	06/29/11	PM11F29D	06/29/11	M511F29B

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49154.07**	Chain of Custody:	**62849**
Client Project Name:	**49154**	Sample No:	**7**	Collect Date:	**06/27/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45180-007** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**1.0**		ng/L	0.51	1.0	06/29/11	PM11F29D	06/29/11	M511F29B

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49154.08**	Chain of Custody:	**62849**
Client Project Name:	**49154**	Sample No:	**8**	Collect Date:	**06/27/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**11:37**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45180-008** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**36**		ng/L	5.1	10	06/29/11	PM11F29D	06/29/11	M511F29B

Analytical Laboratory Report
Laboratory Project Number: 45180
Laboratory Sample Number: 45180-009

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49154.09**	Chain of Custody:	**62849**
Client Project Name:	**49154**	Sample No:	**9**	Collect Date:	**06/27/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**10:30**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45180-009** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**2.0**		ng/L	0.51	1.0	06/29/11	PM11F29D	06/29/11	M511F29B

1914 Holloway Drive *Holt, MI 48842* *T: (517) 699-0345* *F: (517) 699-0388*
11766 E. Grand River *Brighton, MI 48116* *T: (810) 220-3300* *F: (810) 220-3311*
8660 S. Mackinaw Trail *Cadillac, MI 49601* *T: (231) 775-8368* *F: (231) 775-8584*

lab@fibertec.us

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49154.10 MS**	Chain of Custody:	**62849**
Client Project Name:	**49154**	Sample No:	**10**	Collect Date:	**06/27/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**10:30**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45180-010** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**3.5**		ng/L	0.51	1.0	06/29/11	PM11F29D	06/29/11	M511F29B

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49154.11 MSD**	Chain of Custody:	**62849**
Client Project Name:	**49154**	Sample No:	**11**	Collect Date:	**06/27/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**10:30**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45180-011** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**3.8**		ng/L	0.51	1.0	06/29/11	PM11F29D	06/29/11	M511F29B

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49154.12**	Chain of Custody:	**62849**
Client Project Name:	**49154**	Sample No:	**12**	Collect Date:	**06/27/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:50**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45180-012** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**42**		ng/L	5.1	10	06/29/11	PM11F29D	06/29/11	M511F29B

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49154.13**	Chain of Custody:	**62850**
Client Project Name:	**49154**	Sample No:	**13**	Collect Date:	**06/27/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45180-013** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**1.2**		ng/L	0.51	1.0	06/29/11	PM11F29D	06/29/11	M511F29B

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49154.14**	Chain of Custody:	**62850**
Client Project Name:	**49154**	Sample No:	**14**	Collect Date:	**06/27/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**12:40**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45180-014** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**9.2**		ng/L	2.0	4.1	06/29/11	PM11F29D	06/29/11	M511F29B

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49154.15**	Chain of Custody:	**62850**
Client Project Name:	**49154**	Sample No:	**15**	Collect Date:	**06/27/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**13:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45180-015** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	U		ng/L	0.51	1.0	06/29/11	PM11F29D	06/29/11	M511F29B

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QA limits

Exception Summary:

ACCREDITED IN ACCORDANCE WITH nelac

Accreditation Number:

E-10395

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 1 OF 2

45180

62849

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Paula Shaw
COMPANY: Merit Labs
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: Julie Teague ☐ SAME
COMPANY: Merit Labs
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: FAX NO.: P.O. NO.:

PROJECT NO./NAME: 49154
SAMPLER(S) - PLEASE PRINT/SIGN NAME:

TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED): LL Hg

SPECIAL INSTRUCTIONS/NOTES: * Sub'd to Fibertec

MERIT LAB NO.	2011 YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER LLHg kit	LL Hg
	6/27		49154.01	L	1							X	X
		11:20	.02										
		11:55	.03										
		12:30	.04										
		12:10	.05										
		10:50	.06										
		09:00	.07										
		11:37	.08										
		10:30	.09										
		10:30	.10 MS (MS for .09)										
		10:30	.11 MSD (MSD for .09)										
		09:50	.12										

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
Barbara Rubel	6/27/11	15:05
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME
	6/27/11	15:33

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS

NOTES: TEMP. ON ARRIVAL 24°C

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Merit Laboratories, Inc.
2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

62850

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Paula Shaw
COMPANY: Merit Labs
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: Julie Teague
☒ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: FAX NO.: P.O. NO.:

PROJECT NO./NAME: 49154
SAMPLER(S) - PLEASE PRINT/SIGN NAME:

TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☐ OTHER

MATRIX CODE: GW=GROUNDWATER SL=SLUDGE WW=WASTEWATER O=OIL S=SOIL A=AIR L=LIQUID W=WASTE SD=SOLID M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED): LL Hg

SPECIAL INSTRUCTIONS/NOTES: * Sub'd to Fibertec

MERIT LAB NO.	2011 YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER LL Hg 1631	LL Hg
	6/27		49154.13	L	1							X	X
	↓	12:40	.14	↓	↓							↓	↓
	↓	13:00	.15	↓	↓							↓	↓

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
Barbara Rubel	6/27/11	15:05
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME
	6/27/11	1533

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS

NOTES: TEMP. ON ARRIVAL 24°C

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Fibertec environmental services

Quality Control Report
Method Blank (MB)
Mercury by CVAFS
Aqueous

Preparation Batch: PM11F29D
Preparation Date: 06/29/11

Analysis Sequence: m511f29b
Analysis Date/Time: 06/29/11 11:22

Parameter	Result µg/L	PQL µg/L
1. Mercury	U	0.000500

Parameter	Result µg/L	PQL µg/L

NOTE: Exceptions have been properly commented on reported results or affected samples have been scheduled for reanalysis.

U = Result below PQL
NA = Not applicable. Recovery unable to be evaluated.
* = Recovery exceeds control limits

Laboratory Approval/Date

Quality Assurance Review/Date

Analytical Laboratory Report

Revised Report

Report ID: S49155.01(02)
Generated on 12/13/2011
Replaces report S49155.01(01) generated on 07/08/2011

Report to

Attention: Mike Brennan/Micki Macki/Tony M.
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S49155.01-S49155.15
Project: B0064410.2011.00801
Collected Date: 06/27/2011
Submitted Date/Time: 06/27/2011 14:40
Sampled by: DLN/AO
P.O. #: B0064410.2011.0

* Thallium reported instead of titanium.

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Sample Summary (15 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S49155.01	Trip Blank	Liquid	06/27/2011 00:01
S49155.02	MP001_062711	Liquid	06/27/2011 11:20
S49155.03	MP002_062711	Liquid	06/27/2011 11:55
S49155.04	MP003_062711	Liquid	06/27/2011 12:30
S49155.05	MP005_062711	Liquid	06/27/2011 12:10
S49155.06	MP006_062711	Liquid	06/27/2011 10:50
S49155.07	MP007_062711	Liquid	06/27/2011 09:00
S49155.08	MP009_062711	Liquid	06/27/2011 11:37
S49155.09	MP010_062711	Liquid	06/27/2011 10:30
S49155.10	MP010_062711 MS	Liquid	06/27/2011 10:30
S49155.11	MP010_062711 MSD	Liquid	06/27/2011 10:30
S49155.12	MP013_062711	Liquid	06/27/2011 09:50
S49155.13	DUP1_062711	Liquid	06/27/2011 00:01
S49155.14	Field_Blank_062711	Liquid	06/27/2011 00:01
S49155.15	Equip_Blank_062711	Liquid	06/27/2011 12:40

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49155.01
Sample Tag: Trip Blank
Collected Date/Time: 06/27/2011 00:01
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	07/05/11 13:43	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	07/05/11 13:43	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	07/05/11 13:43	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	07/05/11 13:43	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	07/05/11 13:43	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	07/05/11 13:43	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	07/05/11 13:43	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	07/05/11 13:43	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	07/05/11 13:43	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	07/05/11 13:43	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	07/05/11 13:43	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	07/05/11 13:43	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	07/05/11 13:43	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	07/05/11 13:43	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	07/05/11 13:43	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	07/05/11 13:43	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	100-41-4	

Lab Sample ID: S49155.01 (continued)
Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
p,m-Xylene	Not detected	ug/L	2	8260B	07/05/11 13:43	WAT		
o-Xylene	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	07/05/11 13:43	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	07/05/11 13:43	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 13:43	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	07/05/11 13:43	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	07/05/11 13:43	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	07/05/11 13:43	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	07/05/11 13:43	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	07/05/11 13:43	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	07/05/11 13:43	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49155.02
Sample Tag: MP001_062711
Collected Date/Time: 06/27/2011 11:20
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR
1	125ml Plastic	NaOH	Yes	4.6	IR
1	250ml Plastic	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	07/06/11 11:45	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	07/07/11 11:38	JDP	57-12-5	
Total Suspended Solids	123	mg/L	1	2540 D	07/01/11 14:00	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	07/06/11 11:48	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	07/06/11 11:48	SLS	7440-38-2	
Barium	0.083	mg/L	0.005	200.8	07/06/11 11:48	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	07/06/11 11:48	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	07/06/11 11:48	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	07/06/11 11:48	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	07/06/11 11:48	SLS	7440-48-4	
Copper	0.004	mg/L	0.004	200.8	07/06/11 11:48	SLS	7440-50-8	
Lead	0.005	mg/L	0.003	200.8	07/06/11 11:48	SLS	7439-92-1	
Manganese	0.018	mg/L	0.005	200.8	07/06/11 11:48	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	07/06/11 11:48	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	07/06/11 11:48	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	07/06/11 11:48	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	07/06/11 11:48	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	07/06/11 11:48	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	07/06/11 11:48	SLS	7440-62-2	
Zinc	0.038	mg/L	0.005	200.8	07/06/11 11:48	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	07/05/11 14:01	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	07/05/11 14:01	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	07/05/11 14:01	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	07/05/11 14:01	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	07/05/11 14:01	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	07/05/11 14:01	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	07/05/11 14:01	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	07/05/11 14:01	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	07/05/11 14:01	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	07/05/11 14:01	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	75-69-4	

Lab Sample ID: S49155.02 (continued)
Sample Tag: MP001_062711

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	07/05/11 14:01	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	07/05/11 14:01	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	07/05/11 14:01	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	07/05/11 14:01	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	07/05/11 14:01	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	07/05/11 14:01	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	07/05/11 14:01	WAT		
o-Xylene	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	07/05/11 14:01	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	07/05/11 14:01	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:01	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	07/05/11 14:01	WAT	67-72-1	

Lab Sample ID: S49155.02 (continued)
Sample Tag: MP001_062711

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	07/05/11 14:01	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	07/05/11 14:01	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	07/05/11 14:01	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	07/05/11 14:01	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	07/05/11 14:01	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49155.03
Sample Tag: MP002_062711
Collected Date/Time: 06/27/2011 11:55
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR
1	125ml Plastic	NaOH	Yes	4.6	IR
1	250ml Plastic	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	07/06/11 11:45	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	07/07/11 11:40	JDP	57-12-5	
Total Suspended Solids	32	mg/L	1	2540 D	07/01/11 14:00	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	07/06/11 14:15	SLS	7440-36-0	
Arsenic	0.006	mg/L	0.002	200.8	07/06/11 14:15	SLS	7440-38-2	
Barium	0.222	mg/L	0.005	200.8	07/06/11 14:15	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	07/06/11 14:15	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	07/06/11 14:15	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	07/06/11 14:15	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	07/06/11 14:15	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	07/06/11 14:15	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	07/06/11 14:15	SLS	7439-92-1	
Manganese	0.406	mg/L	0.005	200.8	07/06/11 14:15	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	07/06/11 14:15	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	07/06/11 14:15	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	07/06/11 14:15	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	07/06/11 14:15	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	07/06/11 14:15	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	07/06/11 14:15	SLS	7440-62-2	
Zinc	0.013	mg/L	0.005	200.8	07/06/11 14:15	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	07/05/11 14:19	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	07/05/11 14:19	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	07/05/11 14:19	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	07/05/11 14:19	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	07/05/11 14:19	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	07/05/11 14:19	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	07/05/11 14:19	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	07/05/11 14:19	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	07/05/11 14:19	WAT	74-83-9	
Chloroethane	15	ug/L	5	8260B	07/05/11 14:19	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	75-69-4	

Lab Sample ID: S49155.03 (continued)
Sample Tag: MP002_062711

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	07/05/11 14:19	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	156-60-5	
1,1-Dichloroethane	8	ug/L	1	8260B	07/05/11 14:19	WAT	75-34-3	
cis-1,2-Dichloroethene	5	ug/L	1	8260B	07/05/11 14:19	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	07/05/11 14:19	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	74-97-5	
1,1,1-Trichloroethane	4	ug/L	1	8260B	07/05/11 14:19	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	07/05/11 14:19	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	07/05/11 14:19	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	107-06-2	
Trichloroethene	2	ug/L	1	8260B	07/05/11 14:19	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	07/05/11 14:19	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	10061-01-5	
Toluene	4	ug/L	1	8260B	07/05/11 14:19	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	07/05/11 14:19	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	100-41-4	
p,m-Xylene	3	ug/L	2	8260B	07/05/11 14:19	WAT		
o-Xylene	1	ug/L	1	8260B	07/05/11 14:19	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	07/05/11 14:19	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	07/05/11 14:19	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:19	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	07/05/11 14:19	WAT	67-72-1	

Lab Sample ID: S49155.03 (continued)
Sample Tag: MP002_062711

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	07/05/11 14:19	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	07/05/11 14:19	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	07/05/11 14:19	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	07/05/11 14:19	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	07/05/11 14:19	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49155.04
Sample Tag: MP003_062711
Collected Date/Time: 06/27/2011 12:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR
1	125ml Plastic	NaOH	Yes	4.6	IR
1	250ml Plastic	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	07/06/11 11:45	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	07/07/11 11:42	JDP	57-12-5	
Total Suspended Solids	4	mg/L	1	2540 D	07/01/11 14:00	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	07/06/11 14:20	SLS	7440-36-0	
Arsenic	0.003	mg/L	0.002	200.8	07/06/11 14:20	SLS	7440-38-2	
Barium	0.155	mg/L	0.005	200.8	07/06/11 14:20	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	07/06/11 14:20	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	07/06/11 14:20	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	07/06/11 14:20	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	07/06/11 14:20	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	07/06/11 14:20	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	07/06/11 14:20	SLS	7439-92-1	
Manganese	0.268	mg/L	0.005	200.8	07/06/11 14:20	SLS	7439-96-5	
Nickel	0.007	mg/L	0.005	200.8	07/06/11 14:20	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	07/06/11 14:20	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	07/06/11 14:20	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	07/06/11 14:20	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	07/06/11 14:20	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	07/06/11 14:20	SLS	7440-62-2	
Zinc	0.014	mg/L	0.005	200.8	07/06/11 14:20	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	07/05/11 14:37	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	07/05/11 14:37	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	07/05/11 14:37	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	07/05/11 14:37	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	07/05/11 14:37	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	07/05/11 14:37	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	07/05/11 14:37	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	07/05/11 14:37	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	07/05/11 14:37	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	07/05/11 14:37	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	75-69-4	

Lab Sample ID: S49155.04 (continued)
Sample Tag: MP003_062711

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	07/05/11 14:37	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	07/05/11 14:37	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	07/05/11 14:37	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	07/05/11 14:37	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	107-06-2	
Trichloroethene	2	ug/L	1	8260B	07/05/11 14:37	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	07/05/11 14:37	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	07/05/11 14:37	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	07/05/11 14:37	WAT		
o-Xylene	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	07/05/11 14:37	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	07/05/11 14:37	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:37	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	07/05/11 14:37	WAT	67-72-1	

Lab Sample ID: S49155.04 (continued)
Sample Tag: MP003_062711

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	07/05/11 14:37	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	07/05/11 14:37	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	07/05/11 14:37	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	07/05/11 14:37	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	07/05/11 14:37	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49155.05
Sample Tag: MP005_062711
Collected Date/Time: 06/27/2011 12:10
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.6	IR
1	125ml Plastic	NaOH	Yes	4.6	IR
1	250ml Plastic	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	07/06/11 11:45	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	07/07/11 11:44	JDP	57-12-5	
Total Suspended Solids	5	mg/L	1	2540 D	07/01/11 14:00	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	07/06/11 14:24	SLS	7440-36-0	
Arsenic	0.009	mg/L	0.002	200.8	07/06/11 14:24	SLS	7440-38-2	
Barium	0.078	mg/L	0.005	200.8	07/06/11 14:24	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	07/06/11 14:24	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	07/06/11 14:24	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	07/06/11 14:24	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	07/06/11 14:24	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	07/06/11 14:24	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	07/06/11 14:24	SLS	7439-92-1	
Manganese	0.189	mg/L	0.005	200.8	07/06/11 14:24	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	07/06/11 14:24	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	07/06/11 14:24	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	07/06/11 14:24	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	07/06/11 14:24	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	07/06/11 14:24	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	07/06/11 14:24	SLS	7440-62-2	
Zinc	0.005	mg/L	0.005	200.8	07/06/11 14:24	SLS	7440-66-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49155.06
Sample Tag: MP006_062711
Collected Date/Time: 06/27/2011 10:50
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR
1	125ml Plastic	NaOH	Yes	4.6	IR
1	250ml Plastic	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	07/06/11 11:45	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	07/07/11 11:46	JDP	57-12-5	
Total Suspended Solids	1	mg/L	1	2540 D	07/01/11 14:00	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	07/06/11 14:29	SLS	7440-36-0	
Arsenic	0.002	mg/L	0.002	200.8	07/06/11 14:29	SLS	7440-38-2	
Barium	0.072	mg/L	0.005	200.8	07/06/11 14:29	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	07/06/11 14:29	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	07/06/11 14:29	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	07/06/11 14:29	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	07/06/11 14:29	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	07/06/11 14:29	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	07/06/11 14:29	SLS	7439-92-1	
Manganese	0.242	mg/L	0.005	200.8	07/06/11 14:29	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	07/06/11 14:29	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	07/06/11 14:29	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	07/06/11 14:29	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	07/06/11 14:29	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	07/06/11 14:29	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	07/06/11 14:29	SLS	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	07/06/11 14:29	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	07/05/11 14:55	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	07/05/11 14:55	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	07/05/11 14:55	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	07/05/11 14:55	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	07/05/11 14:55	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	07/05/11 14:55	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	07/05/11 14:55	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	07/05/11 14:55	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	07/05/11 14:55	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	07/05/11 14:55	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	75-69-4	

Lab Sample ID: S49155.06 (continued)
Sample Tag: MP006_062711

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	07/05/11 14:55	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	07/05/11 14:55	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	07/05/11 14:55	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	07/05/11 14:55	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	07/05/11 14:55	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	07/05/11 14:55	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	07/05/11 14:55	WAT		
o-Xylene	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	07/05/11 14:55	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	07/05/11 14:55	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 14:55	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	07/05/11 14:55	WAT	67-72-1	

Lab Sample ID: S49155.06 (continued)
Sample Tag: MP006_062711

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	07/05/11 14:55	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	07/05/11 14:55	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	07/05/11 14:55	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	07/05/11 14:55	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	07/05/11 14:55	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49155.07
Sample Tag: MP007_062711
Collected Date/Time: 06/27/2011 09:00
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR
1	125ml Plastic	NaOH	Yes	4.6	IR
1	250ml Plastic	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	07/06/11 11:45	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	07/07/11 11:48	JDP	57-12-5	
Total Suspended Solids	330	mg/L	1	2540 D	07/01/11 14:00	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	07/06/11 14:34	SLS	7440-36-0	
Arsenic	0.003	mg/L	0.002	200.8	07/06/11 14:34	SLS	7440-38-2	
Barium	0.059	mg/L	0.005	200.8	07/06/11 14:34	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	07/06/11 14:34	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	07/06/11 14:34	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	07/06/11 14:34	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	07/06/11 14:34	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	07/06/11 14:34	SLS	7440-50-8	
Lead	0.004	mg/L	0.003	200.8	07/06/11 14:34	SLS	7439-92-1	
Manganese	0.017	mg/L	0.005	200.8	07/06/11 14:34	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	07/06/11 14:34	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	07/06/11 14:34	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	07/06/11 14:34	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	07/06/11 14:34	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	07/06/11 14:34	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	07/06/11 14:34	SLS	7440-62-2	
Zinc	0.021	mg/L	0.005	200.8	07/06/11 14:34	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	07/05/11 15:13	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	07/05/11 15:13	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	07/05/11 15:13	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	07/05/11 15:13	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	07/05/11 15:13	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	07/05/11 15:13	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	07/05/11 15:13	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	07/05/11 15:13	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	07/05/11 15:13	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	07/05/11 15:13	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	75-69-4	

Lab Sample ID: S49155.07 (continued)
Sample Tag: MP007_062711

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	07/05/11 15:13	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	156-60-5	
1,1-Dichloroethane	5	ug/L	1	8260B	07/05/11 15:13	WAT	75-34-3	
cis-1,2-Dichloroethene	3	ug/L	1	8260B	07/05/11 15:13	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	07/05/11 15:13	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	07/05/11 15:13	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	07/05/11 15:13	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	107-06-2	
Trichloroethene	1	ug/L	1	8260B	07/05/11 15:13	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	07/05/11 15:13	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	07/05/11 15:13	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	07/05/11 15:13	WAT		
o-Xylene	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	07/05/11 15:13	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	07/05/11 15:13	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 15:13	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	07/05/11 15:13	WAT	67-72-1	

Lab Sample ID: S49155.07 (continued)
Sample Tag: MP007_062711

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	07/05/11 15:13	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	07/05/11 15:13	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	07/05/11 15:13	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	07/05/11 15:13	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	07/05/11 15:13	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49155.08
Sample Tag: MP009_062711
Collected Date/Time: 06/27/2011 11:37
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR
1	125ml Plastic	NaOH	Yes	4.6	IR
1	250ml Plastic	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	07/06/11 11:45	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	07/07/11 11:50	JDP	57-12-5	
Total Suspended Solids	69	mg/L	1	2540 D	07/01/11 14:00	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	07/06/11 14:38	SLS	7440-36-0	
Arsenic	0.005	mg/L	0.002	200.8	07/06/11 14:38	SLS	7440-38-2	
Barium	0.140	mg/L	0.005	200.8	07/06/11 14:38	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	07/06/11 14:38	SLS	7440-41-7	
Cadmium	0.0008	mg/L	0.0005	200.8	07/06/11 14:38	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	07/06/11 14:38	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	07/06/11 14:38	SLS	7440-48-4	
Copper	0.005	mg/L	0.004	200.8	07/06/11 14:38	SLS	7440-50-8	
Lead	0.011	mg/L	0.003	200.8	07/06/11 14:38	SLS	7439-92-1	
Manganese	2.03	mg/L	0.005	200.8	07/06/11 14:38	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	07/06/11 14:38	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	07/06/11 14:38	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	07/06/11 14:38	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	07/06/11 14:38	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	07/06/11 14:38	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	07/06/11 14:38	SLS	7440-62-2	
Zinc	0.055	mg/L	0.005	200.8	07/06/11 14:38	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	07/05/11 15:31	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	07/05/11 15:31	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	07/05/11 15:31	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	07/05/11 15:31	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	07/05/11 15:31	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	07/05/11 15:31	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	07/05/11 15:31	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	07/05/11 15:31	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	07/05/11 15:31	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	07/05/11 15:31	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	75-69-4	

Lab Sample ID: S49155.08 (continued)
Sample Tag: MP009_062711

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	07/05/11 15:31	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	75-34-3	
cis-1,2-Dichloroethene	14	ug/L	1	8260B	07/05/11 15:31	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	07/05/11 15:31	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	07/05/11 15:31	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	07/05/11 15:31	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	107-06-2	
Trichloroethene	7	ug/L	1	8260B	07/05/11 15:31	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	07/05/11 15:31	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	07/05/11 15:31	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	07/05/11 15:31	WAT		
o-Xylene	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	07/05/11 15:31	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	07/05/11 15:31	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 15:31	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	07/05/11 15:31	WAT	67-72-1	

Lab Sample ID: S49155.08 (continued)
Sample Tag: MP009_062711

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	07/05/11 15:31	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	07/05/11 15:31	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	07/05/11 15:31	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	07/05/11 15:31	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	07/05/11 15:31	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49155.09
Sample Tag: MP010_062711
Collected Date/Time: 06/27/2011 10:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR
1	125ml Plastic	NaOH	Yes	4.6	IR
1	250ml Plastic	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	07/06/11 11:45	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	07/07/11 11:52	JDP	57-12-5	
Total Suspended Solids	31	mg/L	1	2540 D	07/01/11 14:00	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	07/06/11 14:48	SLS	7440-36-0	
Arsenic	0.003	mg/L	0.002	200.8	07/06/11 14:48	SLS	7440-38-2	
Barium	0.099	mg/L	0.005	200.8	07/06/11 14:48	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	07/06/11 14:48	SLS	7440-41-7	
Cadmium	0.0006	mg/L	0.0005	200.8	07/06/11 14:48	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	07/06/11 14:48	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	07/06/11 14:48	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	07/06/11 14:48	SLS	7440-50-8	
Lead	0.007	mg/L	0.003	200.8	07/06/11 14:48	SLS	7439-92-1	
Manganese	0.317	mg/L	0.005	200.8	07/06/11 14:48	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	07/06/11 14:48	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	07/06/11 14:48	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	07/06/11 14:48	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	07/06/11 14:48	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	07/06/11 14:48	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	07/06/11 14:48	SLS	7440-62-2	
Zinc	0.031	mg/L	0.005	200.8	07/06/11 14:48	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	07/05/11 15:49	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	07/05/11 15:49	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	07/05/11 15:49	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	07/05/11 15:49	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	07/05/11 15:49	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	07/05/11 15:49	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	07/05/11 15:49	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	07/05/11 15:49	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	07/05/11 15:49	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	07/05/11 15:49	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	75-69-4	

Lab Sample ID: S49155.09 (continued)
Sample Tag: MP010_062711

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	07/05/11 15:49	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	75-34-3	
cis-1,2-Dichloroethene	2	ug/L	1	8260B	07/05/11 15:49	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	07/05/11 15:49	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	07/05/11 15:49	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	07/05/11 15:49	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	07/05/11 15:49	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	07/05/11 15:49	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	07/05/11 15:49	WAT		
o-Xylene	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	07/05/11 15:49	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	07/05/11 15:49	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 15:49	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	07/05/11 15:49	WAT	67-72-1	

Lab Sample ID: S49155.09 (continued)
Sample Tag: MP010_062711

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	07/05/11 15:49	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	07/05/11 15:49	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	07/05/11 15:49	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	07/05/11 15:49	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	07/05/11 15:49	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49155.10
Sample Tag: MP010_062711 MS
Collected Date/Time: 06/27/2011 10:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR
1	125ml Plastic	NaOH	Yes	4.6	IR
1	250ml Plastic	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	07/06/11 11:45	SLR		
Inorganics								
Cyanide	0.092	mg/L	0.005	335.4/4500-CN-E	07/07/11 11:56	JDP	57-12-5	
Total Suspended Solids	78	mg/L	1	2540 D	07/01/11 14:00	DJS		
Metals								
Antimony	0.265	mg/L	0.005	200.8	07/06/11 14:52	SLS	7440-36-0	
Arsenic	0.270	mg/L	0.002	200.8	07/06/11 14:52	SLS	7440-38-2	
Barium	0.378	mg/L	0.005	200.8	07/06/11 14:52	SLS	7440-39-3	
Beryllium	0.267	mg/L	0.001	200.8	07/06/11 14:52	SLS	7440-41-7	
Cadmium	0.2626	mg/L	0.0005	200.8	07/06/11 14:52	SLS	7440-43-9	
Chromium	0.268	mg/L	0.005	200.8	07/06/11 14:52	SLS	7440-47-3	
Cobalt	0.263	mg/L	0.005	200.8	07/06/11 14:52	SLS	7440-48-4	
Copper	0.262	mg/L	0.004	200.8	07/06/11 14:52	SLS	7440-50-8	
Lead	0.271	mg/L	0.003	200.8	07/06/11 14:52	SLS	7439-92-1	
Manganese	0.959	mg/L	0.005	200.8	07/06/11 14:52	SLS	7439-96-5	
Nickel	0.266	mg/L	0.005	200.8	07/06/11 14:52	SLS	7440-02-0	
Selenium	0.271	mg/L	0.005	200.8	07/06/11 14:52	SLS	7782-49-2	
Silver	0.2573	mg/L	0.0005	200.8	07/06/11 14:52	SLS	7440-22-4	
Thallium	0.256	mg/L	0.001	200.8	07/06/11 14:52	SLS	7440-28-0	
Titanium	0.27	mg/L	0.02	200.8	07/06/11 14:52	SLS	7440-32-6	
Vanadium	0.272	mg/L	0.004	200.8	07/06/11 14:52	SLS	7440-62-2	
Zinc	0.330	mg/L	0.005	200.8	07/06/11 14:52	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	53	ug/L	10	8260B	07/05/11 19:26	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	8260B	07/05/11 19:26	WAT	67-64-1	1
Methyl iodide	52	ug/L	1	8260B	07/05/11 19:26	WAT	74-88-4	1
Carbon disulfide	48	ug/L	5	8260B	07/05/11 19:26	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	58	ug/L	5	8260B	07/05/11 19:26	WAT	1634-04-4	1
Acrylonitrile	51	ug/L	2	8260B	07/05/11 19:26	WAT	107-13-1	1
2-Butanone (MEK)	37	ug/L	25	8260B	07/05/11 19:26	WAT	78-93-3	1
Dichlorodifluoromethane	25	ug/L	5	8260B	07/05/11 19:26	WAT	75-71-8	1
Chloromethane	40	ug/L	5	8260B	07/05/11 19:26	WAT	74-87-3	1
Vinyl chloride	43	ug/L	1	8260B	07/05/11 19:26	WAT	75-01-4	1
Bromomethane	53	ug/L	5	8260B	07/05/11 19:26	WAT	74-83-9	1
Chloroethane	59	ug/L	5	8260B	07/05/11 19:26	WAT	75-00-3	1

1-Sample spiked at 50ug/l

Lab Sample ID: S49155.10 (continued)
Sample Tag: MP010_062711 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Trichlorofluoromethane	48	ug/L	1	8260B	07/05/11 19:26	WAT	75-69-4	1
1,1-Dichloroethene	52	ug/L	1	8260B	07/05/11 19:26	WAT	75-35-4	1
Methylene chloride	54	ug/L	5	8260B	07/05/11 19:26	WAT	75-09-2	1
trans-1,2-Dichloroethene	55	ug/L	1	8260B	07/05/11 19:26	WAT	156-60-5	1
1,1-Dichloroethane	56	ug/L	1	8260B	07/05/11 19:26	WAT	75-34-3	1
cis-1,2-Dichloroethene	59	ug/L	1	8260B	07/05/11 19:26	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	8260B	07/05/11 19:26	WAT	109-99-9	1
Chloroform	59	ug/L	1	8260B	07/05/11 19:26	WAT	67-66-3	1
Bromochloromethane	57	ug/L	1	8260B	07/05/11 19:26	WAT	74-97-5	1
1,1,1-Trichloroethane	59	ug/L	1	8260B	07/05/11 19:26	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	50	ug/L	50	8260B	07/05/11 19:26	WAT	108-10-1	1
2-Hexanone	Not detected	ug/L	50	8260B	07/05/11 19:26	WAT	591-78-6	1
Carbon tetrachloride	56	ug/L	1	8260B	07/05/11 19:26	WAT	56-23-5	1
Benzene	54	ug/L	1	8260B	07/05/11 19:26	WAT	71-43-2	1
1,2-Dichloroethane	55	ug/L	1	8260B	07/05/11 19:26	WAT	107-06-2	1
Trichloroethene	54	ug/L	1	8260B	07/05/11 19:26	WAT	79-01-6	1
1,2-Dichloropropane	59	ug/L	1	8260B	07/05/11 19:26	WAT	78-87-5	1
Bromodichloromethane	52	ug/L	1	8260B	07/05/11 19:26	WAT	75-27-4	1
Dibromomethane	55	ug/L	5	8260B	07/05/11 19:26	WAT	74-95-3	1
cis-1,3-Dichloropropene	52	ug/L	1	8260B	07/05/11 19:26	WAT	10061-01-5	1
Toluene	53	ug/L	1	8260B	07/05/11 19:26	WAT	108-88-3	1
trans-1,3-Dichloropropene	52	ug/L	1	8260B	07/05/11 19:26	WAT	10061-02-6	1
1,1,2-Trichloroethane	56	ug/L	1	8260B	07/05/11 19:26	WAT	79-00-5	1
Tetrachloroethene	50	ug/L	1	8260B	07/05/11 19:26	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	43	ug/L	1	8260B	07/05/11 19:26	WAT	110-57-6	1
Dibromochloromethane	47	ug/L	5	8260B	07/05/11 19:26	WAT	124-48-1	1
1,2-Dibromoethane	54	ug/L	1	8260B	07/05/11 19:26	WAT	106-93-4	1
Chlorobenzene	53	ug/L	1	8260B	07/05/11 19:26	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	55	ug/L	1	8260B	07/05/11 19:26	WAT	630-20-6	1
Ethylbenzene	53	ug/L	1	8260B	07/05/11 19:26	WAT	100-41-4	1
p,m-Xylene	105	ug/L	2	8260B	07/05/11 19:26	WAT		1
o-Xylene	54	ug/L	1	8260B	07/05/11 19:26	WAT	95-47-6	1
Styrene	46	ug/L	1	8260B	07/05/11 19:26	WAT	100-42-5	1
Isopropylbenzene	52	ug/L	5	8260B	07/05/11 19:26	WAT	98-82-8	1
Bromoform	47	ug/L	1	8260B	07/05/11 19:26	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	55	ug/L	1	8260B	07/05/11 19:26	WAT	79-34-5	1
1,2,3-Trichloropropane	53	ug/L	1	8260B	07/05/11 19:26	WAT	96-18-4	1
n-Propylbenzene	53	ug/L	1	8260B	07/05/11 19:26	WAT	103-65-1	1
Bromobenzene	53	ug/L	1	8260B	07/05/11 19:26	WAT	108-86-1	1
1,3,5-Trimethylbenzene	50	ug/L	1	8260B	07/05/11 19:26	WAT	108-67-8	1
tert-Butylbenzene	53	ug/L	1	8260B	07/05/11 19:26	WAT	98-06-6	1
1,2,4-Trimethylbenzene	51	ug/L	1	8260B	07/05/11 19:26	WAT	95-63-6	1
sec-Butylbenzene	54	ug/L	1	8260B	07/05/11 19:26	WAT	135-98-8	1
p-Isopropyltoluene	54	ug/L	5	8260B	07/05/11 19:26	WAT	99-87-6	1
1,3-Dichlorobenzene	53	ug/L	1	8260B	07/05/11 19:26	WAT	541-73-1	1
1,4-Dichlorobenzene	51	ug/L	1	8260B	07/05/11 19:26	WAT	106-46-7	1
1,2-Dichlorobenzene	54	ug/L	1	8260B	07/05/11 19:26	WAT	95-50-1	1
1,2,3-Trimethylbenzene	51	ug/L	1	8260B	07/05/11 19:26	WAT	526-73-8	1

1-Sample spiked at 50ug/l

Lab Sample ID: S49155.10 (continued)
Sample Tag: MP010_062711 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	54	ug/L	1	8260B	07/05/11 19:26	WAT	104-51-8	1
Hexachloroethane	48	ug/L	5	8260B	07/05/11 19:26	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	51	ug/L	5	8260B	07/05/11 19:26	WAT	96-12-8	1
1,2,4-Trichlorobenzene	53	ug/L	5	8260B	07/05/11 19:26	WAT	120-82-1	1
1,2,3-Trichlorobenzene	55	ug/L	5	8260B	07/05/11 19:26	WAT	87-61-6	1
Naphthalene	56	ug/L	5	8260B	07/05/11 19:26	WAT	91-20-3	1
2-Methylnaphthalene	52	ug/L	5	8260B	07/05/11 19:26	WAT	91-57-6	1

1-Sample spiked at 50ug/l

Lab Sample ID: S49155.11
Sample Tag: MP010_062711 MSD
Collected Date/Time: 06/27/2011 10:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR
1	125ml Plastic	NaOH	Yes	4.6	IR
1	250ml Plastic	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	07/06/11 11:45	SLR		
Inorganics								
Cyanide	0.091	mg/L	0.005	335.4/4500-CN-E	07/07/11 11:58	JDP	57-12-5	
Total Suspended Solids	78	mg/L	1	2540 D	07/01/11 14:00	DJS		
Metals								
Antimony	0.259	mg/L	0.005	200.8	07/06/11 14:58	SLS	7440-36-0	
Arsenic	0.263	mg/L	0.002	200.8	07/06/11 14:58	SLS	7440-38-2	
Barium	0.347	mg/L	0.005	200.8	07/06/11 14:58	SLS	7440-39-3	
Beryllium	0.263	mg/L	0.001	200.8	07/06/11 14:58	SLS	7440-41-7	
Cadmium	0.2511	mg/L	0.0005	200.8	07/06/11 14:58	SLS	7440-43-9	
Chromium	0.258	mg/L	0.005	200.8	07/06/11 14:58	SLS	7440-47-3	
Cobalt	0.254	mg/L	0.005	200.8	07/06/11 14:58	SLS	7440-48-4	
Copper	0.253	mg/L	0.004	200.8	07/06/11 14:58	SLS	7440-50-8	
Lead	0.249	mg/L	0.003	200.8	07/06/11 14:58	SLS	7439-92-1	
Manganese	0.385	mg/L	0.005	200.8	07/06/11 14:58	SLS	7439-96-5	
Nickel	0.253	mg/L	0.005	200.8	07/06/11 14:58	SLS	7440-02-0	
Selenium	0.265	mg/L	0.005	200.8	07/06/11 14:58	SLS	7782-49-2	
Silver	0.2491	mg/L	0.0005	200.8	07/06/11 14:58	SLS	7440-22-4	
Thallium	0.250	mg/L	0.001	200.8	07/06/11 14:58	SLS	7440-28-0	
Titanium	0.26	mg/L	0.02	200.8	07/06/11 14:58	SLS	7440-32-6	
Vanadium	0.266	mg/L	0.004	200.8	07/06/11 14:58	SLS	7440-62-2	
Zinc	0.268	mg/L	0.005	200.8	07/06/11 14:58	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	56	ug/L	10	8260B	07/05/11 19:44	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	8260B	07/05/11 19:44	WAT	67-64-1	1
Methyl iodide	55	ug/L	1	8260B	07/05/11 19:44	WAT	74-88-4	1
Carbon disulfide	52	ug/L	5	8260B	07/05/11 19:44	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	60	ug/L	5	8260B	07/05/11 19:44	WAT	1634-04-4	1
Acrylonitrile	52	ug/L	2	8260B	07/05/11 19:44	WAT	107-13-1	1
2-Butanone (MEK)	38	ug/L	25	8260B	07/05/11 19:44	WAT	78-93-3	1
Dichlorodifluoromethane	26	ug/L	5	8260B	07/05/11 19:44	WAT	75-71-8	1
Chloromethane	41	ug/L	5	8260B	07/05/11 19:44	WAT	74-87-3	1
Vinyl chloride	45	ug/L	1	8260B	07/05/11 19:44	WAT	75-01-4	1
Bromomethane	54	ug/L	5	8260B	07/05/11 19:44	WAT	74-83-9	1
Chloroethane	59	ug/L	5	8260B	07/05/11 19:44	WAT	75-00-3	1

1-Sample spiked at 50ug/l

Lab Sample ID: S49155.11 (continued)
Sample Tag: MP010_062711 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Trichlorofluoromethane	49	ug/L	1	8260B	07/05/11 19:44	WAT	75-69-4	1
1,1-Dichloroethene	55	ug/L	1	8260B	07/05/11 19:44	WAT	75-35-4	1
Methylene chloride	57	ug/L	5	8260B	07/05/11 19:44	WAT	75-09-2	1
trans-1,2-Dichloroethene	57	ug/L	1	8260B	07/05/11 19:44	WAT	156-60-5	1
1,1-Dichloroethane	59	ug/L	1	8260B	07/05/11 19:44	WAT	75-34-3	1
cis-1,2-Dichloroethene	62	ug/L	1	8260B	07/05/11 19:44	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	8260B	07/05/11 19:44	WAT	109-99-9	1
Chloroform	60	ug/L	1	8260B	07/05/11 19:44	WAT	67-66-3	1
Bromochloromethane	59	ug/L	1	8260B	07/05/11 19:44	WAT	74-97-5	1
1,1,1-Trichloroethane	61	ug/L	1	8260B	07/05/11 19:44	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	07/05/11 19:44	WAT	108-10-1	1
2-Hexanone	Not detected	ug/L	50	8260B	07/05/11 19:44	WAT	591-78-6	1
Carbon tetrachloride	58	ug/L	1	8260B	07/05/11 19:44	WAT	56-23-5	1
Benzene	56	ug/L	1	8260B	07/05/11 19:44	WAT	71-43-2	1
1,2-Dichloroethane	56	ug/L	1	8260B	07/05/11 19:44	WAT	107-06-2	1
Trichloroethene	56	ug/L	1	8260B	07/05/11 19:44	WAT	79-01-6	1
1,2-Dichloropropane	61	ug/L	1	8260B	07/05/11 19:44	WAT	78-87-5	1
Bromodichloromethane	55	ug/L	1	8260B	07/05/11 19:44	WAT	75-27-4	1
Dibromomethane	56	ug/L	5	8260B	07/05/11 19:44	WAT	74-95-3	1
cis-1,3-Dichloropropene	55	ug/L	1	8260B	07/05/11 19:44	WAT	10061-01-5	1
Toluene	57	ug/L	1	8260B	07/05/11 19:44	WAT	108-88-3	1
trans-1,3-Dichloropropene	55	ug/L	1	8260B	07/05/11 19:44	WAT	10061-02-6	1
1,1,2-Trichloroethane	58	ug/L	1	8260B	07/05/11 19:44	WAT	79-00-5	1
Tetrachloroethene	53	ug/L	1	8260B	07/05/11 19:44	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	42	ug/L	1	8260B	07/05/11 19:44	WAT	110-57-6	1
Dibromochloromethane	49	ug/L	5	8260B	07/05/11 19:44	WAT	124-48-1	1
1,2-Dibromoethane	54	ug/L	1	8260B	07/05/11 19:44	WAT	106-93-4	1
Chlorobenzene	54	ug/L	1	8260B	07/05/11 19:44	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	56	ug/L	1	8260B	07/05/11 19:44	WAT	630-20-6	1
Ethylbenzene	53	ug/L	1	8260B	07/05/11 19:44	WAT	100-41-4	1
p,m-Xylene	107	ug/L	2	8260B	07/05/11 19:44	WAT		1
o-Xylene	55	ug/L	1	8260B	07/05/11 19:44	WAT	95-47-6	1
Styrene	48	ug/L	1	8260B	07/05/11 19:44	WAT	100-42-5	1
Isopropylbenzene	54	ug/L	5	8260B	07/05/11 19:44	WAT	98-82-8	1
Bromoform	49	ug/L	1	8260B	07/05/11 19:44	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	53	ug/L	1	8260B	07/05/11 19:44	WAT	79-34-5	1
1,2,3-Trichloropropane	52	ug/L	1	8260B	07/05/11 19:44	WAT	96-18-4	1
n-Propylbenzene	53	ug/L	1	8260B	07/05/11 19:44	WAT	103-65-1	1
Bromobenzene	54	ug/L	1	8260B	07/05/11 19:44	WAT	108-86-1	1
1,3,5-Trimethylbenzene	52	ug/L	1	8260B	07/05/11 19:44	WAT	108-67-8	1
tert-Butylbenzene	54	ug/L	1	8260B	07/05/11 19:44	WAT	98-06-6	1
1,2,4-Trimethylbenzene	52	ug/L	1	8260B	07/05/11 19:44	WAT	95-63-6	1
sec-Butylbenzene	55	ug/L	1	8260B	07/05/11 19:44	WAT	135-98-8	1
p-Isopropyltoluene	56	ug/L	5	8260B	07/05/11 19:44	WAT	99-87-6	1
1,3-Dichlorobenzene	55	ug/L	1	8260B	07/05/11 19:44	WAT	541-73-1	1
1,4-Dichlorobenzene	53	ug/L	1	8260B	07/05/11 19:44	WAT	106-46-7	1
1,2-Dichlorobenzene	54	ug/L	1	8260B	07/05/11 19:44	WAT	95-50-1	1
1,2,3-Trimethylbenzene	53	ug/L	1	8260B	07/05/11 19:44	WAT	526-73-8	1

1-Sample spiked at 50ug/l

Lab Sample ID: S49155.11 (continued)
Sample Tag: MP010_062711 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	55	ug/L	1	8260B	07/05/11 19:44	WAT	104-51-8	1
Hexachloroethane	49	ug/L	5	8260B	07/05/11 19:44	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	49	ug/L	5	8260B	07/05/11 19:44	WAT	96-12-8	1
1,2,4-Trichlorobenzene	50	ug/L	5	8260B	07/05/11 19:44	WAT	120-82-1	1
1,2,3-Trichlorobenzene	51	ug/L	5	8260B	07/05/11 19:44	WAT	87-61-6	1
Naphthalene	51	ug/L	5	8260B	07/05/11 19:44	WAT	91-20-3	1
2-Methylnaphthalene	47	ug/L	5	8260B	07/05/11 19:44	WAT	91-57-6	1

1-Sample spiked at 50ug/l

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49155.12
Sample Tag: MP013_062711
Collected Date/Time: 06/27/2011 09:50
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.6	IR
1	125ml Plastic	NaOH	Yes	4.6	IR
1	250ml Plastic	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	07/06/11 11:45	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	07/07/11 12:02	JDP	57-12-5	
Total Suspended Solids	43	mg/L	1	2540 D	07/01/11 14:00	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	07/06/11 14:43	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	07/06/11 14:43	SLS	7440-38-2	
Barium	0.086	mg/L	0.005	200.8	07/06/11 14:43	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	07/06/11 14:43	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	07/06/11 14:43	SLS	7440-43-9	
Chromium	0.010	mg/L	0.005	200.8	07/06/11 14:43	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	07/06/11 14:43	SLS	7440-48-4	
Copper	0.046	mg/L	0.004	200.8	07/06/11 14:43	SLS	7440-50-8	
Lead	0.038	mg/L	0.003	200.8	07/06/11 14:43	SLS	7439-92-1	
Manganese	0.173	mg/L	0.005	200.8	07/06/11 14:43	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	07/06/11 14:43	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	07/06/11 14:43	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	07/06/11 14:43	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	07/06/11 14:43	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	07/06/11 14:43	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	07/06/11 14:43	SLS	7440-62-2	
Zinc	0.131	mg/L	0.005	200.8	07/06/11 14:43	SLS	7440-66-6	

Lab Sample ID: S49155.13
Sample Tag: DUP1_062711
Collected Date/Time: 06/27/2011 00:01
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR
1	125ml Plastic	NaOH	Yes	4.6	IR
1	250ml Plastic	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	07/06/11 11:45	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	07/07/11 12:04	JDP	57-12-5	
Total Suspended Solids	76	mg/L	1	2540 D	07/01/11 14:00	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	07/06/11 15:18	SLS	7440-36-0	
Arsenic	0.002	mg/L	0.002	200.8	07/06/11 15:18	SLS	7440-38-2	
Barium	0.095	mg/L	0.005	200.8	07/06/11 15:18	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	07/06/11 15:18	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	07/06/11 15:18	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	07/06/11 15:18	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	07/06/11 15:18	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	07/06/11 15:18	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	07/06/11 15:18	SLS	7439-92-1	
Manganese	0.159	mg/L	0.005	200.8	07/06/11 15:18	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	07/06/11 15:18	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	07/06/11 15:18	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	07/06/11 15:18	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	07/06/11 15:18	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	07/06/11 15:18	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	07/06/11 15:18	SLS	7440-62-2	
Zinc	0.014	mg/L	0.005	200.8	07/06/11 15:18	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	07/05/11 16:07	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	07/05/11 16:07	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	07/05/11 16:07	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	07/05/11 16:07	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	07/05/11 16:07	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	07/05/11 16:07	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	07/05/11 16:07	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	07/05/11 16:07	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	07/05/11 16:07	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	07/05/11 16:07	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	75-69-4	

Lab Sample ID: S49155.13 (continued)
Sample Tag: DUP1_062711

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	07/05/11 16:07	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	75-34-3	
cis-1,2-Dichloroethene	2	ug/L	1	8260B	07/05/11 16:07	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	07/05/11 16:07	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	07/05/11 16:07	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	07/05/11 16:07	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	07/05/11 16:07	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	07/05/11 16:07	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	07/05/11 16:07	WAT		
o-Xylene	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	07/05/11 16:07	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	07/05/11 16:07	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 16:07	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	07/05/11 16:07	WAT	67-72-1	

Lab Sample ID: S49155.13 (continued)
Sample Tag: DUP1_062711

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	07/05/11 16:07	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	07/05/11 16:07	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	07/05/11 16:07	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	07/05/11 16:07	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	07/05/11 16:07	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49155.14
Sample Tag: Field_Blank_062711
Collected Date/Time: 06/27/2011 00:01
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR
1	125ml Plastic	NaOH	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	07/06/11 11:45	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	07/07/11 12:06	JDP	57-12-5	
Metals								
Antimony	Not detected	mg/L	0.005	200.8	07/06/11 15:23	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	07/06/11 15:23	SLS	7440-38-2	
Barium	0.006	mg/L	0.005	200.8	07/06/11 15:23	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	07/06/11 15:23	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	07/06/11 15:23	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	07/06/11 15:23	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	07/06/11 15:23	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	07/06/11 15:23	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	07/06/11 15:23	SLS	7439-92-1	
Manganese	Not detected	mg/L	0.005	200.8	07/06/11 15:23	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	07/06/11 15:23	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	07/06/11 15:23	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	07/06/11 15:23	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	07/06/11 15:23	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	07/06/11 15:23	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	07/06/11 15:23	SLS	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	07/06/11 15:23	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	07/05/11 16:26	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	07/05/11 16:26	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	07/05/11 16:26	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	07/05/11 16:26	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	07/05/11 16:26	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	07/05/11 16:26	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	07/05/11 16:26	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	07/05/11 16:26	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	07/05/11 16:26	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	07/05/11 16:26	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	07/05/11 16:26	WAT	75-09-2	

Lab Sample ID: S49155.14 (continued)
Sample Tag: Field_Blank_062711

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	07/05/11 16:26	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	07/05/11 16:26	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	07/05/11 16:26	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	07/05/11 16:26	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	07/05/11 16:26	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	07/05/11 16:26	WAT		
o-Xylene	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	07/05/11 16:26	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	07/05/11 16:26	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 16:26	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	07/05/11 16:26	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	07/05/11 16:26	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	07/05/11 16:26	WAT	120-82-1	

Lab Sample ID: S49155.14 (continued)
Sample Tag: Field_Blank_062711

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	07/05/11 16:26	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	07/05/11 16:26	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	07/05/11 16:26	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49155.15
Sample Tag: Equip_Blank_062711
Collected Date/Time: 06/27/2011 12:40
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR
1	125ml Plastic	NaOH	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	07/06/11 11:45	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	07/07/11 12:08	JDP	57-12-5	
Metals								
Antimony	Not detected	mg/L	0.005	200.8	07/06/11 15:29	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	07/06/11 15:29	SLS	7440-38-2	
Barium	Not detected	mg/L	0.005	200.8	07/06/11 15:29	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	07/06/11 15:29	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	07/06/11 15:29	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	07/06/11 15:29	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	07/06/11 15:29	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	07/06/11 15:29	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	07/06/11 15:29	SLS	7439-92-1	
Manganese	Not detected	mg/L	0.005	200.8	07/06/11 15:29	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	07/06/11 15:29	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	07/06/11 15:29	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	07/06/11 15:29	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	07/06/11 15:29	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	07/06/11 15:29	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	07/06/11 15:29	SLS	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	07/06/11 15:29	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	07/05/11 16:44	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	07/05/11 16:44	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	07/05/11 16:44	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	07/05/11 16:44	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	07/05/11 16:44	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	07/05/11 16:44	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	07/05/11 16:44	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	07/05/11 16:44	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	07/05/11 16:44	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	07/05/11 16:44	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	07/05/11 16:44	WAT	75-09-2	

Lab Sample ID: S49155.15 (continued)
Sample Tag: Equip_Blank_062711

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	07/05/11 16:44	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	07/05/11 16:44	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	07/05/11 16:44	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	07/05/11 16:44	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	07/05/11 16:44	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	07/05/11 16:44	WAT		
o-Xylene	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	07/05/11 16:44	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	07/05/11 16:44	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	07/05/11 16:44	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	07/05/11 16:44	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	07/05/11 16:44	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	07/05/11 16:44	WAT	120-82-1	

Lab Sample ID: S49155.15 (continued)
Sample Tag: Equip_Blank_062711

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	07/05/11 16:44	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	07/05/11 16:44	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	07/05/11 16:44	WAT	91-57-6	

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C.O.C. PAGE # 1 OF 2

*Please also send a copy of invoicing to Micki Maki (ARCADIS)

REPORT TO

CONTACT NAME: Mike Brennan / Micki Maki / Tony Maffeo
COMPANY: ARCADIS
ADDRESS: 10559 Citation Dr., Suite 100
CITY: Brighton STATE: Mi ZIP CODE: 48116
PHONE NO.: SEE CONTRACT FOR DETAILS FAX NO.: P.O. NO.:
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: Ms. Monica Wallingford ☐ SAME
COMPANY: RACER Trust
ADDRESS: 401 S. Old Woodward Ave., Suite 370
CITY: Birmingham STATE: MI ZIP CODE: 48009
PHONE NO.: 313.486.2928 FAX NO.: - P.O. NO.: MLT-1295

PROJECT NO./NAME: B0064410.2011.00801
SAMPLER(S) - PLEASE PRINT/SIGN NAME: DLN, AO

TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☐ OTHER EDD

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	METALS	CYANIDE	VOCs	TSS	SPECIAL INSTRUCTIONS/NOTES
49155.01	—	—	Trip Blank	L	2		2								X		LAB FILLED
.02	06/27/11	11:20	MP001_062711	L	4	1	2	1		1			X	X	X	X	5 BTLS
.03	06/27/11	11:55	MP002_062711	L	4	1	2	1		1			X	X	X	X	5 BTLS
.04	06/27/11	12:30	MP003_062711	L	5	1	2	1		1			X	X	X	X	
.05	06/27/11	12:10	MP005_062711 ⊞	L	4	1		1		1			X	X		X	
.06	06/27/11	10:50	MP006_062711 ⊞	L	5	1	2	1		1			X	X	X	X	
.07	06/27/11	09:00	MP007_062711 ⊞	L	5	1	2	1		1			X	X	X	X	
.08	06/27/11	11:37	MP009_062711 ⊞	L	5	1	2	1		1			X	X	X	X	
09/10/11	06/27/11	10:30	MP010_062711 ⊞	L	15	3	6	3		3			X	X	X	X	MS/MSD
.12	06/27/11	09:50	MP013_062711 ⊞	L	4	1		1		1			X	X			3 BTLS
.13	06/27/11	—	DUP1_062711 ⊞	L	5	1	2	1		1			X	X	X	X	
.14	06/27/11	13:00	Field_Blank_062711	L	4		2	1		1			X	X	X	X	NO TSS

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
	6-27-11	1345		6-27-11	1940
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME
	6-27-11	1345	Andrew Bell	27 Jun 11	1940
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO. / SEAL INTACT YES ☐ NO ☐ / INITIALS	NOTES:	TEMP. ON ARRIVAL 4.6
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO. / SEAL INTACT YES ☐ NO ☐ / INITIALS		

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

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REPORT TO

CONTACT NAME: Mike Brennan / Micki Maki / Tony Maffeo
COMPANY: ARCADIS
ADDRESS: 10559 Citation Dr., Suite 100
CITY: Brighton STATE: Mi ZIP CODE: 48116
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: SEE CONTRACT FOR DETAILS QUOTE NO.:

INVOICE TO

CONTACT NAME: Ms. Monica Wallingford ☐ SAME
COMPANY: RACER Trust
ADDRESS: 401 S. Old Woodward Ave., Suite 370
CITY: Birmingham STATE: MI ZIP CODE: 48009
PHONE NO.: 313.486.2928 FAX NO.: - P.O. NO.: MLT-1295

PROJECT NO./NAME: B0064410.2011.00801
SAMPLER(S) - PLEASE PRINT/SIGN NAME:

TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☐ OTHER EDD

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

SPECIAL INSTRUCTIONS/NOTES: * Metals include: Ag, As, Ba, Be, Cd, Cr (total), Co, Cu, Mn, Ni, Pb, Sb, Ti, Se, V, and Zn.

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	METALS	CYANIDE	VOCs	TSS							SPECIAL INSTRUCTIONS/NOTES
49155.15	06/27/11	12:40	Equip_Blank_062711	L	4		2	1		1			X	X	X	~~X~~							NO TSS

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	6-27-11	1345	RECEIVED BY: SIGNATURE/ORGANIZATION Andrew Bell	27 JUN 11	1440
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO. / SEAL INTACT YES ☐ NO ☐ / INITIALS	NOTES: TEMP. ON ARRIVAL 4.6	
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO. / SEAL INTACT YES ☐ NO ☐ / INITIALS		

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Analytical Laboratory Report

Report ID: S49173.01(01)
Generated on 06/29/2011

Report to

Attention: Mike Brennan/Micki Macki/Tony M.
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S49173.01
Project: B0064410.2011.00801
Collected Date: 06/27/2011
Submitted Date/Time: 06/28/2011 14:10
Sampled by: DLN
P.O. #: MLT-1295

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (1 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S49173.01	Outfall 005 (062711)	Liquid	06/27/2011 08:30

Analytical Laboratory Report

Lab Sample ID: S49173.01
Sample Tag: Outfall 005 (062711)
Collected Date/Time: 06/27/2011 08:30
Matrix: Liquid
COC Reference: 61216

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	4.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	06/28/11 21:04	EMR		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	06/29/11 11:15	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	06/29/11 11:15	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	06/29/11 11:15	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	06/29/11 11:15	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	06/29/11 11:15	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	06/29/11 11:15	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	06/29/11 11:15	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	06/29/11 11:15	JANB	1336-36-3	

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61216

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: MIKE BRENNAN / ~~LIZ MARSH~~ MICKI MAY / TONY MAFFEO
COMPANY: ARCADIS
ADDRESS: 10559 CITATION DR. STE 100
CITY: BRIGHTON STATE: MI ZIP CODE: 48116
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: SEE CONTRACT FOR DETAILS QUOTE NO.:

INVOICE TO

CONTACT NAME: MONICA WALLINGFORD ☐ SAME
COMPANY: RACER TRUST
ADDRESS: 401 S. OLD WOODWARD STE 370
CITY: BIRMINGHAM STATE: MI ZIP CODE: 48009
PHONE NO.: 3134862928 FAX NO.: P.O. NO.:

PROJECT NO./NAME: B0064410.2011.00801
SAMPLER(S) - PLEASE PRINT/SIGN NAME: DAN

TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☐ STANDARD ☐ LEVEL II ☐ LEVEL III ☒ OTHER EDD

MATRIX CODE: GW=GROUNDWATER SL=SLUDGE WW=WASTEWATER O=OIL S=SOIL A=AIR L=LIQUID W=WASTE SD=SOLID M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED): PCB

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCL	HNO_3	H_2SO_4	NaOH	NaOH	OTHER	PCB	SPECIAL INSTRUCTIONS/NOTES
491130	6/27/11	0830	OUTFALL 005 (062711)	L	1	1							X	~~NPN-MI~~ DN NPMP 24 h. COMPOSITE
														SAMPLER RAN 6/24/11 1600 to 6/25/11 1600

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
	6-28-11	1230		6-28-11	1410
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME
	6-28-11	1230		6-28-11	1410
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO. / SEAL INTACT YES ☐ NO ☐ / INITIALS	NOTES: TEMP. ON ARRIVAL 4.3	
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO. / SEAL INTACT YES ☐ NO ☐ / INITIALS		

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Analytical Laboratory Report

Report ID: S49336.01(01)
Generated on 07/26/2011

Report to

Attention: Mike Brennan/Micki Macki/Tony M.
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S49336.01-S49336.17
Project: B0064410.2011.00801
Collected Date: 07/14/2011
Submitted Date/Time: 07/14/2011 14:00
Sampled by: DLN, AO
P.O. #: B0064410.2011.0

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (17 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S49336.01	MP001_07142011	Liquid	07/14/2011 10:30
S49336.02	MP002_07142011	Liquid	07/14/2011 10:39
S49336.03	MP002_07142011 MS	Liquid	07/14/2011 10:39
S49336.04	MP002_07142011 MSD	Liquid	07/14/2011 10:39
S49336.05	MP003_07142011	Liquid	07/14/2011 11:20
S49336.06	MP005_07142011	Liquid	07/14/2011 11:10
S49336.07	MP006_07142011	Liquid	07/14/2011 10:20
S49336.08	MP007_07142011	Liquid	07/14/2011 09:15
S49336.09	MP009_07142011	Liquid	07/14/2011 10:50
S49336.10	MP010_07142011	Liquid	07/14/2011 10:10
S49336.11	MP011_07142011	Liquid	07/14/2011 09:40
S49336.12	MP013_07142011	Liquid	07/14/2011 08:45
S49336.13	Equip_Blank1_07142011	Liquid	07/14/2011 11:30
S49336.14	Equip_Blank2_07142011	Liquid	07/14/2011 09:30
S49336.15	Duplicate001_07142011	Liquid	07/14/2011 00:01
S49336.16	Trip_Blank_07142011	Liquid	07/14/2011 00:01
S49336.17	Field_Blank_07142011	Liquid	07/14/2011 09:55

Analytical Laboratory Report

Lab Sample ID: S49336.01
Sample Tag: MP001_07142011
Collected Date/Time: 07/14/2011 10:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	12	ng/L	2.0	1631E	07/21/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49336.02
Sample Tag: MP002_07142011
Collected Date/Time: 07/14/2011 10:39
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	2.0	ng/L	0.51	1631E	07/21/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49336.03
Sample Tag: MP002_07142011 MS
Collected Date/Time: 07/14/2011 10:39
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	7.7	ng/L	0.51	1631E	07/21/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49336.04
Sample Tag: MP002_07142011 MSD
Collected Date/Time: 07/14/2011 10:39
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	140	ng/L	21	1631E	07/21/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49336.05
Sample Tag: MP003_07142011
Collected Date/Time: 07/14/2011 11:20
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	1.2	ng/L	0.51	1631E	07/21/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49336.06
Sample Tag: MP005_07142011
Collected Date/Time: 07/14/2011 11:10
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	37	ng/L	5.1	1631E	07/21/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49336.07
Sample Tag: MP006_07142011
Collected Date/Time: 07/14/2011 10:20
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	200	ng/L	20	1631E	07/21/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49336.08
Sample Tag: MP007_07142011
Collected Date/Time: 07/14/2011 09:15
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	16	ng/L	2.0	1631E	07/21/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49336.09
Sample Tag: MP009_07142011
Collected Date/Time: 07/14/2011 10:50
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	750	ng/L	82	1631E	07/21/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49336.10
Sample Tag: MP010_07142011
Collected Date/Time: 07/14/2011 10:10
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	7.8	ng/L	0.51	1631E	07/21/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49336.11
Sample Tag: MP011_07142011
Collected Date/Time: 07/14/2011 09:40
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	Not detected	ng/L	0.51	1631E	07/21/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49336.12
Sample Tag: MP013_07142011
Collected Date/Time: 07/14/2011 08:45
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	87	ng/L	5.1	1631E	07/21/11 12:00	Fiber	7439-97-6	O1

O-Analysis performed by outside laboratory. See attached report. 1-The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.

Analytical Laboratory Report

Lab Sample ID: S49336.13
Sample Tag: Equip_Blank1_07142011
Collected Date/Time: 07/14/2011 11:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	Not detected	ng/L	0.51	1631E	07/21/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49336.14
Sample Tag: Equip_Blank2_07142011
Collected Date/Time: 07/14/2011 09:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	Not detected	ng/L	0.51	1631E	07/21/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49336.15
Sample Tag: Duplicate001_07142011
Collected Date/Time: 07/14/2011 00:01
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	1.4	ng/L	0.51	1631E	07/21/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49336.16
Sample Tag: Trip_Blank_07142011
Collected Date/Time: 07/14/2011 00:01
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	Not detected	ng/L	0.51	1631E	07/21/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49336.17
Sample Tag: Field_Blank_07142011
Collected Date/Time: 07/14/2011 09:55
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	Not detected	ng/L	0.51	1631E	07/21/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 1 OF 2

*Please also send a copy of invoicing to Micki Maki (ARCADIS)

REPORT TO

CONTACT NAME: Mike Brennan / Micki Maki / Tony Maffeo
COMPANY: ARCADIS
ADDRESS: 10559 Citation Dr., Suite 100
CITY: Brighton STATE: Mi ZIP CODE: 48116
PHONE NO.: SEE CONTRACT FOR DETAILS FAX NO.: P.O. NO.:
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: Ms. Monica Wallingford ☐ SAME
COMPANY: RACER Trust
ADDRESS: 401 S. Old Woodward Ave., Suite 370
CITY: Birmingham STATE: MI ZIP CODE: 48009
PHONE NO.: 313.486.2928 FAX NO.: - P.O. NO.: MLT-1295

PROJECT NO./NAME: B0064410.2011.00801
SAMPLER(S) - PLEASE PRINT/SIGN NAME: DLN/AO

TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☒ OTHER EDD

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED): Total Level Hg

* EACH SAMPLE SET ONLY CONTAINED 3 VOAS.

SPECIAL INSTRUCTIONS/NOTES: Metals to include: Ag, As, Ba, Be, Cd, Cr (total), Co, Cu, Mn, Ni, Pb, Sb, Tl, Se, V, and Zn. DLM

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Total Level Hg	SPECIAL INSTRUCTIONS/NOTES
49336.01	07/14/11	1030	MP001_07142011	L	3X	3							X	
.02/.03/.04	07/14/11	1039	MP002_07142011	L	4	4							X	MS/MSD
.05	07/14/11	1120	MP003_07142011	L	4	4							X	
.06	07/14/11	1110	MP005_07142011	L	4	4							X	
.07	07/14/11	1020	MP006_07142011 ⊞	L	4	4							X	
.08	07/14/11	0915	MP007_07142011 ⊞	L	4	4							X	
.09	07/14/11	1050	MP009_07142011 ⊞	L	4	4							X	
.10	07/14/11	1010	MP010_07142011 ⊞	L	4	4							X	
.11	07/14/11	0940	MP011_07142011 ⊞	L	4	4							X	
.12	07/14/11	0845	MP013_07142011 ⊞	L	4	4							X	
.13	07/14/11	1130	Equip_Blank1_07142011 ⊞	L	8	8							X	3X EMPTY + 4 FILLED
.14	07/14/11	0930	Equip_Blank2_07142011	L	8	8							X	3X EMPTY + 4 FILLED

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE 7/14/11	TIME 1215
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE 7/14/11	TIME 1215
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE 7-14-11	TIME 1900
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE 7-14-11	TIME 1400

SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL 4.7
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 2 OF 2

*Please also send a copy of invoicing to Micki Maki (ARCADIS)

REPORT TO

CONTACT NAME: Mike Brennan / Micki Maki / Tony Maffeo
COMPANY: ARCADIS
ADDRESS: 10559 Citation Dr., Suite 100
CITY: Brighton STATE: Mi ZIP CODE: 48116
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: SEE CONTRACT FOR DETAILS QUOTE NO.:

INVOICE TO

CONTACT NAME: Ms. Monica Wallingford ☐ SAME
COMPANY: RACER Trust
ADDRESS: 401 S. Old Woodward Ave., Suite 370
CITY: Birmingham STATE: MI ZIP CODE: 48009
PHONE NO.: 313.486.2928 FAX NO.: - P.O. NO.: MLT-1295

PROJECT NO./NAME: B0064410.2011.00801
SAMPLER(S) - PLEASE PRINT/SIGN NAME: DLN/AO

TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☒ OTHER EDD

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

SPECIAL INSTRUCTIONS/NOTES: ~~Metals to include: Ag, As, Ba, Be, Cd, Cr (total), Co, Cu, Mn, Ni, Pb, Sb, Ti, Se, V, and Zn~~

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Low Level Hg	SPECIAL INSTRUCTIONS/NOTES
49336.15	07/14/11	—	Duplicate001_07142011	L	~~3~~	~~3~~							X	
.16	—	—	Trip_Blank_07142011	L	7	7							X	LAB FILLED
.17	7/14/11	0955	FIELD_BLANK_07142011	L	7	7							X	(4 FILLED + 3 EMPTY)
														(TRIP + FIELD)

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
	7/14/11	1215		7/14/11	1400
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME
	7/14/11	1215		7-14-11	1400
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO. / SEAL INTACT YES ☐ NO ☐ / INITIALS	NOTES: TEMP. ON ARRIVAL 4.4	
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO. / SEAL INTACT YES ☐ NO ☐ / INITIALS		

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Fibertec
environmental
services

Monday, July 25, 2011

Fibertec Project Number:	45434
Project Identification:	49336 /
Submittal Date:	07/14/2011

Ms. Paula Shaw
Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Dear Ms. Shaw,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note samples will be disposed of 30 days after reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49336.01**	Chain of Custody:	**63488**
Client Project Name:	**49336**	Sample No:	**1**	Collect Date:	**07/14/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45434-001** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**12**		ng/L	2.0	4.1	07/21/11	PM11G21A	07/21/11	M511G21A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49336.02**	Chain of Custody:	**63488**
Client Project Name:	**49336**	Sample No:	**2**	Collect Date:	**07/14/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45434-002** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**2.0**		ng/L	0.51	1.0	07/21/11	PM11G21A	07/21/11	M511G21A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49336.03 ms for .02**	Chain of Custody:	**63488**
Client Project Name:	**49336**	Sample No:	**3**	Collect Date:	**07/14/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45434-003** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**7.7**		ng/L	0.51	1.0	07/21/11	PM11G21A	07/21/11	M511G21A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49336.04 msd for .02**	Chain of Custody:	**63488**
Client Project Name:	**49336**	Sample No:	**4**	Collect Date:	**07/14/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45434-004** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**140**		ng/L	21	41	07/21/11	PM11G21A	07/21/11	M511G21A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49336.05**	Chain of Custody:	**63488**
Client Project Name:	**49336**	Sample No:	**5**	Collect Date:	**07/14/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45434-005** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**1.2**		ng/L	0.51	1.0	07/21/11	PM11G21A	07/21/11	M511G21A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49336.06**	Chain of Custody:	**63488**
Client Project Name:	**49336**	Sample No:	**6**	Collect Date:	**07/14/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45434-006** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**37**		ng/L	5.1	10	07/21/11	PM11G21A	07/21/11	M511G21A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49336.07**	Chain of Custody:	**63488**
Client Project Name:	**49336**	Sample No:	**7**	Collect Date:	**07/14/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45434-007** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**200**		ng/L	20	41	07/21/11	PM11G21A	07/21/11	M511G21A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49336.08**	Chain of Custody:	**63488**
Client Project Name:	**49336**	Sample No:	**8**	Collect Date:	**07/14/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45434-008** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**16**		ng/L	2.0	4.1	07/21/11	PM11G21A	07/21/11	M511G21A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49336.09**	Chain of Custody:	**63488**
Client Project Name:	**49336**	Sample No:	**9**	Collect Date:	**07/14/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45434-009** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**750**		ng/L	82	160	07/21/11	PM11G21A	07/21/11	M511G21A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49336.10**	Chain of Custody:	**63488**
Client Project Name:	**49336**	Sample No:	**10**	Collect Date:	**07/14/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45434-010** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**7.8**		ng/L	0.51	1.0	07/21/11	PM11G21A	07/21/11	M511G21A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49336.11**	Chain of Custody:	**63488**
Client Project Name:	**49336**	Sample No:	**11**	Collect Date:	**07/14/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45434-011** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	U		ng/L	0.51	1.0	07/21/11	PM11G21A	07/21/11	M511G21A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49336.12**	Chain of Custody:	**63488**
Client Project Name:	**49336**	Sample No:	**12**	Collect Date:	**07/14/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45434-012** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**87**	E	ng/L	5.1	10	07/21/11	PM11G21A	07/21/11	M511G21A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49336.13**	Chain of Custody:	**63489**
Client Project Name:	**49336**	Sample No:	**13**	Collect Date:	**07/14/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**11:30**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45434-013** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	U		ng/L	0.51	1.0	07/21/11	PM11G21A	07/21/11	M511G21A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49336.14**	Chain of Custody:	**63489**
Client Project Name:	**49336**	Sample No:	**14**	Collect Date:	**07/14/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:30**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45434-014** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	U		ng/L	0.51	1.0	07/21/11	PM11G21A	07/21/11	M511G21A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49336.15**	Chain of Custody:	**63489**
Client Project Name:	**49336**	Sample No:	**15**	Collect Date:	**07/14/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45434-015** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**1.4**		ng/L	0.51	1.0	07/21/11	PM11G21A	07/21/11	M511G21A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49336.16**	Chain of Custody:	**63489**
Client Project Name:	**49336**	Sample No:	**16**	Collect Date:	**07/14/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45434-016** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	U		ng/L	0.51	1.0	07/21/11	PM11G21A	07/21/11	M511G21A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49336.17**	Chain of Custody:	**63489**
Client Project Name:	**49336**	Sample No:	**17**	Collect Date:	**07/14/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:55**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45434-017** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	U		ng/L	0.51	1.0	07/21/11	PM11G21A	07/21/11	M511G21A

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QA limits

Exception Summary:

ACCREDITED IN ACCORDANCE WITH nelac

Accreditation Number:

E-10395

Fibertec environmental services

Quality Control Report
Matrix Spike Summary
Laboratory Project Number: 45434

Client Identification: **Merit Laboratories, Inc.** Client Project Name: **49336** Client Project No:

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Matrix: Ground Water**

Parent Sample:	**45434-002**	Description:	**49336.02**	Sample No:	**2**	Collect Date:	**07/14/11**
MS Sample ID:	**45434-003**	Description:	**49336.03 ms for .02**	Sample No:	**3**	Collect Date:	**07/14/11**
MSD Sample ID:	**45434-004**	Description:	**49336.04 msd for .02**	Sample No:	**4**	Collect Date:	**07/14/11**

Parameter(s)	Result	Units	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	MS/MSD LCL - UCL	RPD %	RPD UCL
1. Mercury	**2.0**	ng/L	0.649	0.00774	0.142	-313	-285	-	-9*	

1914 Holloway Drive *Holt, MI 48842* *T: (517) 699-0345* *F: (517) 699-0388*
11766 E. Grand River *Brighton, MI 48116* *T: (810) 220-3300* *F: (810) 220-3311*
8660 S. Mackinaw Trail *Cadillac, MI 49601* *T: (231) 775-8368* *F: (231) 775-8584*

lab@fibertec.us

Quality Control Report
Matrix Spike Summary
Laboratory Project Number: 45434

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QA limits

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Laboratory Approval:

Daryl P. Strandbergh
Laboratory Director

Peter J. Priniski
Quality Assurance Officer

Accreditation Number:

E-10395

Analytical Laboratory Report

Revised Report

Report ID: S49337.01(02)
Generated on 12/13/2011
Replaces report S49337.01(01) generated on 07/26/2011

Report to

Attention: Mike Brennan/Micki Macki/Tony M.
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S49337.01-S49337.16
Project: B0064410.2011.00801
Collected Date: 07/14/2011
Submitted Date/Time: 07/14/2011 14:00
Sampled by: DLN/AO
P.O. #: B0064410.2011.0

* Thallium reported instead of titanium.

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Sample Summary (16 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S49337.01	MP001_07142011	Liquid	07/14/2011 10:30
S49337.02	MP002_07142011	Liquid	07/14/2011 10:39
S49337.03	MP002_07142011 MS	Liquid	07/14/2011 10:39
S49337.04	MP002_07142011 MSD	Liquid	07/14/2011 10:39
S49337.05	MP003_07142011	Liquid	07/14/2011 11:20
S49337.06	MP005_07142011	Liquid	07/14/2011 11:10
S49337.07	MP006_07142011	Liquid	07/14/2011 10:20
S49337.08	MP007_07142011	Liquid	07/14/2011 09:15
S49337.09	MP009_07142011	Liquid	07/14/2011 10:50
S49337.10	MP010_07142011	Liquid	07/14/2011 10:10
S49337.11	MP011_07142011	Liquid	07/14/2011 09:40
S49337.12	MP013_07142011	Liquid	07/14/2011 08:45
S49337.13	Equip_Blank2_07142011	Liquid	07/14/2011 09:30
S49337.14	Duplicate001_07142011	Liquid	07/14/2011 00:01
S49337.15	Trip_Blank_07142011	Liquid	07/14/2011 00:01
S49337.16	Field_Blank_07142011	Liquid	07/14/2011 09:55

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49337.01
Sample Tag: MP001_07142011
Collected Date/Time: 07/14/2011 10:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR
1	250ml Plastic	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	07/22/11 12:00	PER		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	07/20/11 10:38	JDP	57-12-5	
Total Suspended Solids	53	mg/L	1	2540 D	07/20/11 10:45	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	07/22/11 16:40	PER	7440-36-0	
Arsenic	0.002	mg/L	0.002	200.8	07/22/11 16:40	PER	7440-38-2	
Barium	0.152	mg/L	0.005	200.8	07/22/11 16:40	PER	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	07/22/11 16:40	PER	7440-41-7	
Cadmium	0.0012	mg/L	0.0005	200.8	07/22/11 16:40	PER	7440-43-9	
Chromium	0.028	mg/L	0.005	200.8	07/22/11 16:40	PER	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	07/22/11 16:40	PER	7440-48-4	
Copper	0.022	mg/L	0.004	200.8	07/22/11 16:40	PER	7440-50-8	
Lead	0.073	mg/L	0.003	200.8	07/22/11 16:40	PER	7439-92-1	
Manganese	0.298	mg/L	0.005	200.8	07/22/11 16:40	PER	7439-96-5	
Nickel	0.012	mg/L	0.005	200.8	07/22/11 16:40	PER	7440-02-0	
Selenium	0.006	mg/L	0.005	200.8	07/22/11 16:40	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	07/22/11 16:40	PER	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	07/22/11 16:40	PER	7440-28-0	
Titanium	0.061	mg/L	0.020	200.8	07/22/11 16:40	PER	7440-32-6	
Vanadium	0.005	mg/L	0.004	200.8	07/22/11 16:40	PER	7440-62-2	
Zinc	0.240	mg/L	0.005	200.8	07/22/11 16:40	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	07/25/11 16:51	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	07/25/11 16:51	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	07/25/11 16:51	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	07/25/11 16:51	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	07/25/11 16:51	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	07/25/11 16:51	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	07/25/11 16:51	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	07/25/11 16:51	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	07/25/11 16:51	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	07/25/11 16:51	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	75-69-4	

Lab Sample ID: S49337.01 (continued)
Sample Tag: MP001_07142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	07/25/11 16:51	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	07/25/11 16:51	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	07/25/11 16:51	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	07/25/11 16:51	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	07/25/11 16:51	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	07/25/11 16:51	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	07/25/11 16:51	WAT		
o-Xylene	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	07/25/11 16:51	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	07/25/11 16:51	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 16:51	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	07/25/11 16:51	WAT	67-72-1	

Lab Sample ID: S49337.01 (continued)
Sample Tag: MP001_07142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	07/25/11 16:51	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	07/25/11 16:51	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	07/25/11 16:51	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	07/25/11 16:51	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	07/25/11 16:51	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49337.02
Sample Tag: MP002_07142011
Collected Date/Time: 07/14/2011 10:39
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR
1	250ml Plastic	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	07/22/11 12:00	PER		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	07/20/11 10:40	JDP	57-12-5	
Total Suspended Solids	8	mg/L	1	2540 D	07/20/11 10:45	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	07/22/11 15:05	PER	7440-36-0	
Arsenic	0.007	mg/L	0.002	200.8	07/22/11 15:05	PER	7440-38-2	
Barium	0.311	mg/L	0.005	200.8	07/22/11 15:05	PER	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	07/22/11 15:05	PER	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	07/22/11 15:05	PER	7440-43-9	
Chromium	0.011	mg/L	0.005	200.8	07/22/11 15:05	PER	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	07/22/11 15:05	PER	7440-48-4	
Copper	0.005	mg/L	0.004	200.8	07/22/11 15:05	PER	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	07/22/11 15:05	PER	7439-92-1	
Manganese	0.477	mg/L	0.005	200.8	07/22/11 15:05	PER	7439-96-5	
Nickel	0.009	mg/L	0.005	200.8	07/22/11 15:05	PER	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	07/22/11 15:05	PER	7782-49-2	
Silver	0.0006	mg/L	0.0005	200.8	07/22/11 15:05	PER	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	07/22/11 15:05	PER	7440-28-0	
Titanium	Not detected	mg/L	0.020	200.8	07/22/11 15:05	PER	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	07/22/11 15:05	PER	7440-62-2	
Zinc	0.008	mg/L	0.005	200.8	07/22/11 15:05	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	07/25/11 17:09	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	07/25/11 17:09	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	07/25/11 17:09	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	07/25/11 17:09	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	07/25/11 17:09	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	07/25/11 17:09	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	07/25/11 17:09	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	07/25/11 17:09	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	07/25/11 17:09	WAT	74-83-9	
Chloroethane	16	ug/L	5	8260B	07/25/11 17:09	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	75-69-4	

Lab Sample ID: S49337.02 (continued)
Sample Tag: MP002_07142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	07/25/11 17:09	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	156-60-5	
1,1-Dichloroethane	13	ug/L	1	8260B	07/25/11 17:09	WAT	75-34-3	
cis-1,2-Dichloroethene	8	ug/L	1	8260B	07/25/11 17:09	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	07/25/11 17:09	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	74-97-5	
1,1,1-Trichloroethane	5	ug/L	1	8260B	07/25/11 17:09	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	07/25/11 17:09	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	07/25/11 17:09	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	107-06-2	
Trichloroethene	3	ug/L	1	8260B	07/25/11 17:09	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	07/25/11 17:09	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	07/25/11 17:09	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	07/25/11 17:09	WAT		
o-Xylene	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	07/25/11 17:09	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	07/25/11 17:09	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 17:09	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	07/25/11 17:09	WAT	67-72-1	

Lab Sample ID: S49337.02 (continued)
Sample Tag: MP002_07142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	07/25/11 17:09	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	07/25/11 17:09	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	07/25/11 17:09	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	07/25/11 17:09	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	07/25/11 17:09	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49337.03
Sample Tag: MP002_07142011 MS
Collected Date/Time: 07/14/2011 10:39
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR
1	250ml Plastic	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	07/22/11 12:00	PER		
Inorganics								
Cyanide	0.096	mg/L	0.005	335.4/4500-CN-E	07/20/11 10:44	JDP	57-12-5	
Total Suspended Solids	15	mg/L	1	2540 D	07/20/11 10:45	DJS		
Metals								
Antimony	0.270	mg/L	0.00005	200.8	07/22/11 15:08	PER	7440-36-0	
Arsenic	0.266	mg/L	0.00002	200.8	07/22/11 15:08	PER	7440-38-2	
Barium	0.580	mg/L	0.00005	200.8	07/22/11 15:08	PER	7440-39-3	
Beryllium	0.268	mg/L	0.00001	200.8	07/22/11 15:08	PER	7440-41-7	
Cadmium	0.259	mg/L	0.00005	200.8	07/22/11 15:08	PER	7440-43-9	
Chromium	0.257	mg/L	0.00005	200.8	07/22/11 15:08	PER	7440-47-3	
Cobalt	0.238	mg/L	0.00005	200.8	07/22/11 15:08	PER	7440-48-4	
Copper	0.236	mg/L	0.00004	200.8	07/22/11 15:08	PER	7440-50-8	
Lead	0.244	mg/L	0.00003	200.8	07/22/11 15:08	PER	7439-92-1	
Manganese	0.733	mg/L	0.00005	200.8	07/22/11 15:08	PER	7439-96-5	
Nickel	0.241	mg/L	0.00005	200.8	07/22/11 15:08	PER	7440-02-0	
Selenium	0.271	mg/L	0.00005	200.8	07/22/11 15:08	PER	7782-49-2	
Silver	0.251	mg/L	0.00005	200.8	07/22/11 15:08	PER	7440-22-4	
Thallium	0.241	mg/L	0.00001	200.8	07/22/11 15:08	PER	7440-28-0	
Titanium	0.269	mg/L	0.00020	200.8	07/22/11 15:08	PER	7440-32-6	
Vanadium	0.263	mg/L	0.00004	200.8	07/22/11 15:08	PER	7440-62-2	
Zinc	0.247	mg/L	0.00005	200.8	07/22/11 15:08	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	52	ug/L	10	8260B	07/25/11 20:49	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	8260B	07/25/11 20:49	WAT	67-64-1	1
Methyl iodide	58	ug/L	1	8260B	07/25/11 20:49	WAT	74-88-4	1
Carbon disulfide	61	ug/L	5	8260B	07/25/11 20:49	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	56	ug/L	5	8260B	07/25/11 20:49	WAT	1634-04-4	1
Acrylonitrile	55	ug/L	2	8260B	07/25/11 20:49	WAT	107-13-1	1
2-Butanone (MEK)	42	ug/L	25	8260B	07/25/11 20:49	WAT	78-93-3	1
Dichlorodifluoromethane	42	ug/L	5	8260B	07/25/11 20:49	WAT	75-71-8	1
Chloromethane	51	ug/L	5	8260B	07/25/11 20:49	WAT	74-87-3	1
Vinyl chloride	55	ug/L	1	8260B	07/25/11 20:49	WAT	75-01-4	1
Bromomethane	54	ug/L	5	8260B	07/25/11 20:49	WAT	74-83-9	1
Chloroethane	76	ug/L	5	8260B	07/25/11 20:49	WAT	75-00-3	1

1-Sample spiked at 50ug/l

Lab Sample ID: S49337.03 (continued)
Sample Tag: MP002_07142011 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Trichlorofluoromethane	62	ug/L	1	8260B	07/25/11 20:49	WAT	75-69-4	1
1,1-Dichloroethene	64	ug/L	1	8260B	07/25/11 20:49	WAT	75-35-4	1
Methylene chloride	59	ug/L	5	8260B	07/25/11 20:49	WAT	75-09-2	1
trans-1,2-Dichloroethene	62	ug/L	1	8260B	07/25/11 20:49	WAT	156-60-5	1
1,1-Dichloroethane	74	ug/L	1	8260B	07/25/11 20:49	WAT	75-34-3	1
cis-1,2-Dichloroethene	65	ug/L	1	8260B	07/25/11 20:49	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	8260B	07/25/11 20:49	WAT	109-99-9	1
Chloroform	62	ug/L	1	8260B	07/25/11 20:49	WAT	67-66-3	1
Bromochloromethane	56	ug/L	1	8260B	07/25/11 20:49	WAT	74-97-5	1
1,1,1-Trichloroethane	67	ug/L	1	8260B	07/25/11 20:49	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	51	ug/L	50	8260B	07/25/11 20:49	WAT	108-10-1	1
2-Hexanone	Not detected	ug/L	50	8260B	07/25/11 20:49	WAT	591-78-6	1
Carbon tetrachloride	58	ug/L	1	8260B	07/25/11 20:49	WAT	56-23-5	1
Benzene	57	ug/L	1	8260B	07/25/11 20:49	WAT	71-43-2	1
1,2-Dichloroethane	57	ug/L	1	8260B	07/25/11 20:49	WAT	107-06-2	1
Trichloroethene	60	ug/L	1	8260B	07/25/11 20:49	WAT	79-01-6	1
1,2-Dichloropropane	59	ug/L	1	8260B	07/25/11 20:49	WAT	78-87-5	1
Bromodichloromethane	59	ug/L	1	8260B	07/25/11 20:49	WAT	75-27-4	1
Dibromomethane	53	ug/L	5	8260B	07/25/11 20:49	WAT	74-95-3	1
cis-1,3-Dichloropropene	59	ug/L	1	8260B	07/25/11 20:49	WAT	10061-01-5	1
Toluene	57	ug/L	1	8260B	07/25/11 20:49	WAT	108-88-3	1
trans-1,3-Dichloropropene	49	ug/L	1	8260B	07/25/11 20:49	WAT	10061-02-6	1
1,1,2-Trichloroethane	54	ug/L	1	8260B	07/25/11 20:49	WAT	79-00-5	1
Tetrachloroethene	52	ug/L	1	8260B	07/25/11 20:49	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	44	ug/L	1	8260B	07/25/11 20:49	WAT	110-57-6	1
Dibromochloromethane	52	ug/L	5	8260B	07/25/11 20:49	WAT	124-48-1	1
1,2-Dibromoethane	49	ug/L	1	8260B	07/25/11 20:49	WAT	106-93-4	1
Chlorobenzene	52	ug/L	1	8260B	07/25/11 20:49	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	54	ug/L	1	8260B	07/25/11 20:49	WAT	630-20-6	1
Ethylbenzene	55	ug/L	1	8260B	07/25/11 20:49	WAT	100-41-4	1
p,m-Xylene	105	ug/L	2	8260B	07/25/11 20:49	WAT		1
o-Xylene	54	ug/L	1	8260B	07/25/11 20:49	WAT	95-47-6	1
Styrene	44	ug/L	1	8260B	07/25/11 20:49	WAT	100-42-5	1
Isopropylbenzene	54	ug/L	5	8260B	07/25/11 20:49	WAT	98-82-8	1
Bromoform	43	ug/L	1	8260B	07/25/11 20:49	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	50	ug/L	1	8260B	07/25/11 20:49	WAT	79-34-5	1
1,2,3-Trichloropropane	49	ug/L	1	8260B	07/25/11 20:49	WAT	96-18-4	1
n-Propylbenzene	55	ug/L	1	8260B	07/25/11 20:49	WAT	103-65-1	1
Bromobenzene	51	ug/L	1	8260B	07/25/11 20:49	WAT	108-86-1	1
1,3,5-Trimethylbenzene	50	ug/L	1	8260B	07/25/11 20:49	WAT	108-67-8	1
tert-Butylbenzene	54	ug/L	1	8260B	07/25/11 20:49	WAT	98-06-6	1
1,2,4-Trimethylbenzene	50	ug/L	1	8260B	07/25/11 20:49	WAT	95-63-6	1
sec-Butylbenzene	57	ug/L	1	8260B	07/25/11 20:49	WAT	135-98-8	1
p-Isopropyltoluene	56	ug/L	5	8260B	07/25/11 20:49	WAT	99-87-6	1
1,3-Dichlorobenzene	52	ug/L	1	8260B	07/25/11 20:49	WAT	541-73-1	1
1,4-Dichlorobenzene	50	ug/L	1	8260B	07/25/11 20:49	WAT	106-46-7	1
1,2-Dichlorobenzene	51	ug/L	1	8260B	07/25/11 20:49	WAT	95-50-1	1
1,2,3-Trimethylbenzene	54	ug/L	1	8260B	07/25/11 20:49	WAT	526-73-8	1

1-Sample spiked at 50ug/l

Lab Sample ID: S49337.03 (continued)
Sample Tag: MP002_07142011 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	56	ug/L	1	8260B	07/25/11 20:49	WAT	104-51-8	1
Hexachloroethane	49	ug/L	5	8260B	07/25/11 20:49	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	40	ug/L	5	8260B	07/25/11 20:49	WAT	96-12-8	1
1,2,4-Trichlorobenzene	46	ug/L	5	8260B	07/25/11 20:49	WAT	120-82-1	1
1,2,3-Trichlorobenzene	47	ug/L	5	8260B	07/25/11 20:49	WAT	87-61-6	1
Naphthalene	48	ug/L	5	8260B	07/25/11 20:49	WAT	91-20-3	1
2-Methylnaphthalene	45	ug/L	5	8260B	07/25/11 20:49	WAT	91-57-6	1

1-Sample spiked at 50ug/l

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49337.04
Sample Tag: MP002_07142011 MSD
Collected Date/Time: 07/14/2011 10:39
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR
1	250ml Plastic	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	07/22/11 12:00	PER		
Inorganics								
Cyanide	0.095	mg/L	0.005	335.4/4500-CN-E	07/20/11 10:46	JDP	57-12-5	
Total Suspended Solids	13	mg/L	1	2540 D	07/20/11 10:45	DJS		
Metals								
Antimony	0.269	mg/L	0.00005	200.8	07/22/11 15:10	PER	7440-36-0	
Arsenic	0.267	mg/L	0.00002	200.8	07/22/11 15:10	PER	7440-38-2	
Barium	0.574	mg/L	0.00005	200.8	07/22/11 15:10	PER	7440-39-3	
Beryllium	0.266	mg/L	0.00001	200.8	07/22/11 15:10	PER	7440-41-7	
Cadmium	0.256	mg/L	0.00005	200.8	07/22/11 15:10	PER	7440-43-9	
Chromium	0.256	mg/L	0.00005	200.8	07/22/11 15:10	PER	7440-47-3	
Cobalt	0.238	mg/L	0.00005	200.8	07/22/11 15:10	PER	7440-48-4	
Copper	0.231	mg/L	0.00004	200.8	07/22/11 15:10	PER	7440-50-8	
Lead	0.244	mg/L	0.00003	200.8	07/22/11 15:10	PER	7439-92-1	
Manganese	0.741	mg/L	0.00005	200.8	07/22/11 15:10	PER	7439-96-5	
Nickel	0.241	mg/L	0.00005	200.8	07/22/11 15:10	PER	7440-02-0	
Selenium	0.275	mg/L	0.00005	200.8	07/22/11 15:10	PER	7782-49-2	
Silver	0.247	mg/L	0.00005	200.8	07/22/11 15:10	PER	7440-22-4	
Thallium	0.238	mg/L	0.00001	200.8	07/22/11 15:10	PER	7440-28-0	
Titanium	0.267	mg/L	0.00020	200.8	07/22/11 15:10	PER	7440-32-6	
Vanadium	0.264	mg/L	0.00004	200.8	07/22/11 15:10	PER	7440-62-2	
Zinc	0.240	mg/L	0.00005	200.8	07/22/11 15:10	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	54	ug/L	10	8260B	07/25/11 21:07	WAT	60-29-7	1
Acetone	50	ug/L	50	8260B	07/25/11 21:07	WAT	67-64-1	1
Methyl iodide	59	ug/L	1	8260B	07/25/11 21:07	WAT	74-88-4	1
Carbon disulfide	63	ug/L	5	8260B	07/25/11 21:07	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	59	ug/L	5	8260B	07/25/11 21:07	WAT	1634-04-4	1
Acrylonitrile	56	ug/L	2	8260B	07/25/11 21:07	WAT	107-13-1	1
2-Butanone (MEK)	45	ug/L	25	8260B	07/25/11 21:07	WAT	78-93-3	1
Dichlorodifluoromethane	42	ug/L	5	8260B	07/25/11 21:07	WAT	75-71-8	1
Chloromethane	51	ug/L	5	8260B	07/25/11 21:07	WAT	74-87-3	1
Vinyl chloride	55	ug/L	1	8260B	07/25/11 21:07	WAT	75-01-4	1
Bromomethane	55	ug/L	5	8260B	07/25/11 21:07	WAT	74-83-9	1
Chloroethane	77	ug/L	5	8260B	07/25/11 21:07	WAT	75-00-3	1

1-Sample spiked at 50ug/l

Lab Sample ID: S49337.04 (continued)
Sample Tag: MP002_07142011 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Trichlorofluoromethane	64	ug/L	1	8260B	07/25/11 21:07	WAT	75-69-4	1
1,1-Dichloroethene	64	ug/L	1	8260B	07/25/11 21:07	WAT	75-35-4	1
Methylene chloride	61	ug/L	5	8260B	07/25/11 21:07	WAT	75-09-2	1
trans-1,2-Dichloroethene	63	ug/L	1	8260B	07/25/11 21:07	WAT	156-60-5	1
1,1-Dichloroethane	76	ug/L	1	8260B	07/25/11 21:07	WAT	75-34-3	1
cis-1,2-Dichloroethene	66	ug/L	1	8260B	07/25/11 21:07	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	8260B	07/25/11 21:07	WAT	109-99-9	1
Chloroform	63	ug/L	1	8260B	07/25/11 21:07	WAT	67-66-3	1
Bromochloromethane	58	ug/L	1	8260B	07/25/11 21:07	WAT	74-97-5	1
1,1,1-Trichloroethane	68	ug/L	1	8260B	07/25/11 21:07	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	58	ug/L	50	8260B	07/25/11 21:07	WAT	108-10-1	1
2-Hexanone	Not detected	ug/L	50	8260B	07/25/11 21:07	WAT	591-78-6	1
Carbon tetrachloride	62	ug/L	1	8260B	07/25/11 21:07	WAT	56-23-5	1
Benzene	60	ug/L	1	8260B	07/25/11 21:07	WAT	71-43-2	1
1,2-Dichloroethane	59	ug/L	1	8260B	07/25/11 21:07	WAT	107-06-2	1
Trichloroethene	62	ug/L	1	8260B	07/25/11 21:07	WAT	79-01-6	1
1,2-Dichloropropane	62	ug/L	1	8260B	07/25/11 21:07	WAT	78-87-5	1
Bromodichloromethane	62	ug/L	1	8260B	07/25/11 21:07	WAT	75-27-4	1
Dibromomethane	57	ug/L	5	8260B	07/25/11 21:07	WAT	74-95-3	1
cis-1,3-Dichloropropene	62	ug/L	1	8260B	07/25/11 21:07	WAT	10061-01-5	1
Toluene	59	ug/L	1	8260B	07/25/11 21:07	WAT	108-88-3	1
trans-1,3-Dichloropropene	54	ug/L	1	8260B	07/25/11 21:07	WAT	10061-02-6	1
1,1,2-Trichloroethane	58	ug/L	1	8260B	07/25/11 21:07	WAT	79-00-5	1
Tetrachloroethene	54	ug/L	1	8260B	07/25/11 21:07	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	47	ug/L	1	8260B	07/25/11 21:07	WAT	110-57-6	1
Dibromochloromethane	57	ug/L	5	8260B	07/25/11 21:07	WAT	124-48-1	1
1,2-Dibromoethane	53	ug/L	1	8260B	07/25/11 21:07	WAT	106-93-4	1
Chlorobenzene	55	ug/L	1	8260B	07/25/11 21:07	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	57	ug/L	1	8260B	07/25/11 21:07	WAT	630-20-6	1
Ethylbenzene	57	ug/L	1	8260B	07/25/11 21:07	WAT	100-41-4	1
p,m-Xylene	110	ug/L	2	8260B	07/25/11 21:07	WAT		1
o-Xylene	57	ug/L	1	8260B	07/25/11 21:07	WAT	95-47-6	1
Styrene	45	ug/L	1	8260B	07/25/11 21:07	WAT	100-42-5	1
Isopropylbenzene	57	ug/L	5	8260B	07/25/11 21:07	WAT	98-82-8	1
Bromoform	49	ug/L	1	8260B	07/25/11 21:07	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	54	ug/L	1	8260B	07/25/11 21:07	WAT	79-34-5	1
1,2,3-Trichloropropane	53	ug/L	1	8260B	07/25/11 21:07	WAT	96-18-4	1
n-Propylbenzene	58	ug/L	1	8260B	07/25/11 21:07	WAT	103-65-1	1
Bromobenzene	53	ug/L	1	8260B	07/25/11 21:07	WAT	108-86-1	1
1,3,5-Trimethylbenzene	53	ug/L	1	8260B	07/25/11 21:07	WAT	108-67-8	1
tert-Butylbenzene	56	ug/L	1	8260B	07/25/11 21:07	WAT	98-06-6	1
1,2,4-Trimethylbenzene	53	ug/L	1	8260B	07/25/11 21:07	WAT	95-63-6	1
sec-Butylbenzene	60	ug/L	1	8260B	07/25/11 21:07	WAT	135-98-8	1
p-Isopropyltoluene	59	ug/L	5	8260B	07/25/11 21:07	WAT	99-87-6	1
1,3-Dichlorobenzene	55	ug/L	1	8260B	07/25/11 21:07	WAT	541-73-1	1
1,4-Dichlorobenzene	52	ug/L	1	8260B	07/25/11 21:07	WAT	106-46-7	1
1,2-Dichlorobenzene	55	ug/L	1	8260B	07/25/11 21:07	WAT	95-50-1	1
1,2,3-Trimethylbenzene	56	ug/L	1	8260B	07/25/11 21:07	WAT	526-73-8	1

1-Sample spiked at 50ug/l

Lab Sample ID: S49337.04 (continued)
Sample Tag: MP002_07142011 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	59	ug/L	1	8260B	07/25/11 21:07	WAT	104-51-8	1
Hexachloroethane	51	ug/L	5	8260B	07/25/11 21:07	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	46	ug/L	5	8260B	07/25/11 21:07	WAT	96-12-8	1
1,2,4-Trichlorobenzene	53	ug/L	5	8260B	07/25/11 21:07	WAT	120-82-1	1
1,2,3-Trichlorobenzene	53	ug/L	5	8260B	07/25/11 21:07	WAT	87-61-6	1
Naphthalene	54	ug/L	5	8260B	07/25/11 21:07	WAT	91-20-3	1
2-Methylnaphthalene	59	ug/L	5	8260B	07/25/11 21:07	WAT	91-57-6	1

1-Sample spiked at 50ug/l

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49337.05
Sample Tag: MP003_07142011
Collected Date/Time: 07/14/2011 11:20
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR
1	250ml Plastic	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	07/22/11 12:00	PER		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	07/20/11 10:48	JDP	57-12-5	
Total Suspended Solids	7	mg/L	1	2540 D	07/20/11 10:45	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	07/22/11 14:55	PER	7440-36-0	
Arsenic	0.007	mg/L	0.002	200.8	07/22/11 14:55	PER	7440-38-2	
Barium	0.221	mg/L	0.005	200.8	07/22/11 14:55	PER	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	07/22/11 14:55	PER	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	07/22/11 14:55	PER	7440-43-9	
Chromium	0.010	mg/L	0.005	200.8	07/22/11 14:55	PER	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	07/22/11 14:55	PER	7440-48-4	
Copper	0.009	mg/L	0.004	200.8	07/22/11 14:55	PER	7440-50-8	
Lead	0.011	mg/L	0.003	200.8	07/22/11 14:55	PER	7439-92-1	
Manganese	1.45	mg/L	0.005	200.8	07/22/11 14:55	PER	7439-96-5	
Nickel	0.011	mg/L	0.005	200.8	07/22/11 14:55	PER	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	07/22/11 14:55	PER	7782-49-2	
Silver	0.0007	mg/L	0.0005	200.8	07/22/11 14:55	PER	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	07/22/11 14:55	PER	7440-28-0	
Titanium	Not detected	mg/L	0.020	200.8	07/22/11 14:55	PER	7440-32-6	
Vanadium	0.004	mg/L	0.004	200.8	07/22/11 14:55	PER	7440-62-2	
Zinc	0.073	mg/L	0.005	200.8	07/22/11 14:55	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	07/25/11 17:27	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	07/25/11 17:27	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	07/25/11 17:27	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	07/25/11 17:27	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	07/25/11 17:27	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	07/25/11 17:27	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	07/25/11 17:27	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	07/25/11 17:27	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	07/25/11 17:27	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	07/25/11 17:27	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	75-69-4	

Lab Sample ID: S49337.05 (continued)
Sample Tag: MP003_07142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	07/25/11 17:27	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	07/25/11 17:27	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	07/25/11 17:27	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	07/25/11 17:27	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	107-06-2	
Trichloroethene	1	ug/L	1	8260B	07/25/11 17:27	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	07/25/11 17:27	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	07/25/11 17:27	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	07/25/11 17:27	WAT		
o-Xylene	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	07/25/11 17:27	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	07/25/11 17:27	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 17:27	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	07/25/11 17:27	WAT	67-72-1	

Lab Sample ID: S49337.05 (continued)
Sample Tag: MP003_07142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	07/25/11 17:27	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	07/25/11 17:27	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	07/25/11 17:27	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	07/25/11 17:27	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	07/25/11 17:27	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49337.06
Sample Tag: MP005_07142011
Collected Date/Time: 07/14/2011 11:10
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR
1	250ml Plastic	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	07/22/11 12:00	PER		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	07/20/11 10:50	JDP	57-12-5	
Total Suspended Solids	4	mg/L	1	2540 D	07/20/11 10:45	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	07/22/11 14:58	PER	7440-36-0	
Arsenic	0.011	mg/L	0.002	200.8	07/22/11 14:58	PER	7440-38-2	
Barium	0.088	mg/L	0.005	200.8	07/22/11 14:58	PER	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	07/22/11 14:58	PER	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	07/22/11 14:58	PER	7440-43-9	
Chromium	0.009	mg/L	0.005	200.8	07/22/11 14:58	PER	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	07/22/11 14:58	PER	7440-48-4	
Copper	0.004	mg/L	0.004	200.8	07/22/11 14:58	PER	7440-50-8	
Lead	0.006	mg/L	0.003	200.8	07/22/11 14:58	PER	7439-92-1	
Manganese	0.201	mg/L	0.005	200.8	07/22/11 14:58	PER	7439-96-5	
Nickel	0.008	mg/L	0.005	200.8	07/22/11 14:58	PER	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	07/22/11 14:58	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	07/22/11 14:58	PER	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	07/22/11 14:58	PER	7440-28-0	
Titanium	Not detected	mg/L	0.020	200.8	07/22/11 14:58	PER	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	07/22/11 14:58	PER	7440-62-2	
Zinc	0.022	mg/L	0.005	200.8	07/22/11 14:58	PER	7440-66-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49337.07
Sample Tag: MP006_07142011
Collected Date/Time: 07/14/2011 10:20
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR
1	250ml Plastic	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	07/22/11 12:00	PER		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	07/20/11 10:52	JDP	57-12-5	
Total Suspended Solids	71	mg/L	1	2540 D	07/20/11 10:45	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	07/22/11 15:00	PER	7440-36-0	
Arsenic	0.002	mg/L	0.002	200.8	07/22/11 15:00	PER	7440-38-2	
Barium	0.091	mg/L	0.005	200.8	07/22/11 15:00	PER	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	07/22/11 15:00	PER	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	07/22/11 15:00	PER	7440-43-9	
Chromium	0.010	mg/L	0.005	200.8	07/22/11 15:00	PER	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	07/22/11 15:00	PER	7440-48-4	
Copper	0.012	mg/L	0.004	200.8	07/22/11 15:00	PER	7440-50-8	
Lead	0.013	mg/L	0.003	200.8	07/22/11 15:00	PER	7439-92-1	
Manganese	0.288	mg/L	0.005	200.8	07/22/11 15:00	PER	7439-96-5	
Nickel	0.006	mg/L	0.005	200.8	07/22/11 15:00	PER	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	07/22/11 15:00	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	07/22/11 15:00	PER	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	07/22/11 15:00	PER	7440-28-0	
Titanium	Not detected	mg/L	0.020	200.8	07/22/11 15:00	PER	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	07/22/11 15:00	PER	7440-62-2	
Zinc	0.057	mg/L	0.005	200.8	07/22/11 15:00	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	07/25/11 17:46	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	07/25/11 17:46	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	07/25/11 17:46	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	07/25/11 17:46	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	07/25/11 17:46	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	07/25/11 17:46	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	07/25/11 17:46	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	07/25/11 17:46	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	07/25/11 17:46	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	07/25/11 17:46	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	75-69-4	

Lab Sample ID: S49337.07 (continued)
Sample Tag: MP006_07142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	07/25/11 17:46	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	07/25/11 17:46	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	07/25/11 17:46	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	07/25/11 17:46	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	07/25/11 17:46	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	07/25/11 17:46	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	07/25/11 17:46	WAT		
o-Xylene	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	07/25/11 17:46	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	07/25/11 17:46	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 17:46	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	07/25/11 17:46	WAT	67-72-1	

Lab Sample ID: S49337.07 (continued)
Sample Tag: MP006_07142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	07/25/11 17:46	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	07/25/11 17:46	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	07/25/11 17:46	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	07/25/11 17:46	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	07/25/11 17:46	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49337.08
Sample Tag: MP007_07142011
Collected Date/Time: 07/14/2011 09:15
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR
1	250ml Plastic	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	07/22/11 12:00	PER		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	07/20/11 10:54	JDP	57-12-5	
Total Suspended Solids	26	mg/L	1	2540 D	07/20/11 10:45	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	07/22/11 15:03	PER	7440-36-0	
Arsenic	0.003	mg/L	0.002	200.8	07/22/11 15:03	PER	7440-38-2	
Barium	0.077	mg/L	0.005	200.8	07/22/11 15:03	PER	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	07/22/11 15:03	PER	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	07/22/11 15:03	PER	7440-43-9	
Chromium	0.007	mg/L	0.005	200.8	07/22/11 15:03	PER	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	07/22/11 15:03	PER	7440-48-4	
Copper	0.005	mg/L	0.004	200.8	07/22/11 15:03	PER	7440-50-8	
Lead	0.005	mg/L	0.003	200.8	07/22/11 15:03	PER	7439-92-1	
Manganese	0.041	mg/L	0.005	200.8	07/22/11 15:03	PER	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	07/22/11 15:03	PER	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	07/22/11 15:03	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	07/22/11 15:03	PER	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	07/22/11 15:03	PER	7440-28-0	
Titanium	Not detected	mg/L	0.020	200.8	07/22/11 15:03	PER	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	07/22/11 15:03	PER	7440-62-2	
Zinc	0.025	mg/L	0.005	200.8	07/22/11 15:03	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	07/25/11 18:04	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	07/25/11 18:04	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	07/25/11 18:04	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	07/25/11 18:04	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	07/25/11 18:04	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	07/25/11 18:04	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	07/25/11 18:04	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	07/25/11 18:04	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	07/25/11 18:04	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	07/25/11 18:04	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	75-69-4	

Lab Sample ID: S49337.08 (continued)
Sample Tag: MP007_07142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	07/25/11 18:04	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	07/25/11 18:04	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	07/25/11 18:04	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	07/25/11 18:04	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	07/25/11 18:04	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	07/25/11 18:04	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	07/25/11 18:04	WAT		
o-Xylene	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	07/25/11 18:04	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	07/25/11 18:04	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:04	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	07/25/11 18:04	WAT	67-72-1	

Lab Sample ID: S49337.08 (continued)
Sample Tag: MP007_07142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	07/25/11 18:04	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	07/25/11 18:04	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	07/25/11 18:04	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	07/25/11 18:04	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	07/25/11 18:04	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49337.09
Sample Tag: MP009_07142011
Collected Date/Time: 07/14/2011 10:50
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR
1	250ml Plastic	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	07/22/11 12:00	PER		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	07/20/11 10:56	JDP	57-12-5	
Total Suspended Solids	74	mg/L	1	2540 D	07/20/11 10:45	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	07/22/11 16:16	PER	7440-36-0	
Arsenic	0.014	mg/L	0.002	200.8	07/22/11 16:16	PER	7440-38-2	
Barium	0.331	mg/L	0.005	200.8	07/22/11 16:16	PER	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	07/22/11 16:16	PER	7440-41-7	
Cadmium	0.0017	mg/L	0.0005	200.8	07/22/11 16:16	PER	7440-43-9	
Chromium	0.016	mg/L	0.005	200.8	07/22/11 16:16	PER	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	07/22/11 16:16	PER	7440-48-4	
Copper	0.010	mg/L	0.004	200.8	07/22/11 16:16	PER	7440-50-8	
Lead	0.022	mg/L	0.003	200.8	07/22/11 16:16	PER	7439-92-1	
Manganese	6.98	mg/L	0.005	200.8	07/22/11 16:16	PER	7439-96-5	
Nickel	0.010	mg/L	0.005	200.8	07/22/11 16:16	PER	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	07/22/11 16:16	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	07/22/11 16:16	PER	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	07/22/11 16:16	PER	7440-28-0	
Titanium	0.026	mg/L	0.020	200.8	07/22/11 16:16	PER	7440-32-6	
Vanadium	0.008	mg/L	0.004	200.8	07/22/11 16:16	PER	7440-62-2	
Zinc	0.115	mg/L	0.005	200.8	07/22/11 16:16	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	07/25/11 18:22	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	07/25/11 18:22	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	07/25/11 18:22	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	07/25/11 18:22	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	07/25/11 18:22	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	07/25/11 18:22	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	07/25/11 18:22	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	07/25/11 18:22	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	07/25/11 18:22	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	07/25/11 18:22	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	75-69-4	

Lab Sample ID: S49337.09 (continued)
Sample Tag: MP009_07142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	07/25/11 18:22	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	75-34-3	
cis-1,2-Dichloroethene	15	ug/L	1	8260B	07/25/11 18:22	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	07/25/11 18:22	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	07/25/11 18:22	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	07/25/11 18:22	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	107-06-2	
Trichloroethene	6	ug/L	1	8260B	07/25/11 18:22	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	07/25/11 18:22	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	07/25/11 18:22	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	07/25/11 18:22	WAT		
o-Xylene	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	07/25/11 18:22	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	07/25/11 18:22	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:22	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	07/25/11 18:22	WAT	67-72-1	

Lab Sample ID: S49337.09 (continued)
Sample Tag: MP009_07142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	07/25/11 18:22	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	07/25/11 18:22	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	07/25/11 18:22	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	07/25/11 18:22	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	07/25/11 18:22	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49337.10
Sample Tag: MP010_07142011
Collected Date/Time: 07/14/2011 10:10
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR
1	250ml Plastic	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	07/22/11 12:00	PER		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	07/20/11 10:58	JDP	57-12-5	
Total Suspended Solids	224	mg/L	1	2540 D	07/20/11 10:45	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	07/22/11 16:19	PER	7440-36-0	
Arsenic	0.004	mg/L	0.002	200.8	07/22/11 16:19	PER	7440-38-2	
Barium	0.247	mg/L	0.005	200.8	07/22/11 16:19	PER	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	07/22/11 16:19	PER	7440-41-7	
Cadmium	0.0024	mg/L	0.0005	200.8	07/22/11 16:19	PER	7440-43-9	
Chromium	0.036	mg/L	0.005	200.8	07/22/11 16:19	PER	7440-47-3	
Cobalt	0.005	mg/L	0.005	200.8	07/22/11 16:19	PER	7440-48-4	
Copper	0.132	mg/L	0.004	200.8	07/22/11 16:19	PER	7440-50-8	
Lead	0.196	mg/L	0.003	200.8	07/22/11 16:19	PER	7439-92-1	
Manganese	2.55	mg/L	0.005	200.8	07/22/11 16:19	PER	7439-96-5	
Nickel	0.034	mg/L	0.005	200.8	07/22/11 16:19	PER	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	07/22/11 16:19	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	07/22/11 16:19	PER	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	07/22/11 16:19	PER	7440-28-0	
Titanium	0.021	mg/L	0.020	200.8	07/22/11 16:19	PER	7440-32-6	
Vanadium	0.007	mg/L	0.004	200.8	07/22/11 16:19	PER	7440-62-2	
Zinc	0.508	mg/L	0.005	200.8	07/22/11 16:19	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	07/25/11 18:40	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	07/25/11 18:40	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	07/25/11 18:40	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	07/25/11 18:40	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	07/25/11 18:40	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	07/25/11 18:40	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	07/25/11 18:40	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	07/25/11 18:40	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	07/25/11 18:40	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	07/25/11 18:40	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	75-69-4	

Lab Sample ID: S49337.10 (continued)
Sample Tag: MP010_07142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	07/25/11 18:40	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	75-34-3	
cis-1,2-Dichloroethene	1	ug/L	1	8260B	07/25/11 18:40	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	07/25/11 18:40	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	07/25/11 18:40	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	07/25/11 18:40	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	07/25/11 18:40	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	07/25/11 18:40	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	07/25/11 18:40	WAT		
o-Xylene	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	07/25/11 18:40	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	07/25/11 18:40	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:40	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	07/25/11 18:40	WAT	67-72-1	

Lab Sample ID: S49337.10 (continued)
Sample Tag: MP010_07142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	07/25/11 18:40	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	07/25/11 18:40	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	07/25/11 18:40	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	07/25/11 18:40	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	07/25/11 18:40	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49337.11
Sample Tag: MP011_07142011
Collected Date/Time: 07/14/2011 09:40
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR
1	250ml Plastic	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	07/22/11 12:00	PER		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	07/20/11 11:00	JDP	57-12-5	
Total Suspended Solids	1	mg/L	1	2540 D	07/20/11 10:45	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	07/22/11 16:28	PER	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	07/22/11 16:28	PER	7440-38-2	
Barium	0.078	mg/L	0.005	200.8	07/22/11 16:28	PER	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	07/22/11 16:28	PER	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	07/22/11 16:28	PER	7440-43-9	
Chromium	0.009	mg/L	0.005	200.8	07/22/11 16:28	PER	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	07/22/11 16:28	PER	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	07/22/11 16:28	PER	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	07/22/11 16:28	PER	7439-92-1	
Manganese	0.043	mg/L	0.005	200.8	07/22/11 16:28	PER	7439-96-5	
Nickel	0.005	mg/L	0.005	200.8	07/22/11 16:28	PER	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	07/22/11 16:28	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	07/22/11 16:28	PER	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	07/22/11 16:28	PER	7440-28-0	
Titanium	Not detected	mg/L	0.020	200.8	07/22/11 16:28	PER	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	07/22/11 16:28	PER	7440-62-2	
Zinc	0.005	mg/L	0.005	200.8	07/22/11 16:28	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	07/25/11 18:58	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	07/25/11 18:58	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	07/25/11 18:58	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	07/25/11 18:58	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	07/25/11 18:58	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	07/25/11 18:58	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	07/25/11 18:58	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	07/25/11 18:58	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	07/25/11 18:58	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	07/25/11 18:58	WAT	75-00-3	
Trichlorofluoromethane	6	ug/L	1	8260B	07/25/11 18:58	WAT	75-69-4	

Lab Sample ID: S49337.11 (continued)
Sample Tag: MP011_07142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	07/25/11 18:58	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	75-34-3	
cis-1,2-Dichloroethene	4	ug/L	1	8260B	07/25/11 18:58	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	07/25/11 18:58	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	07/25/11 18:58	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	07/25/11 18:58	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	107-06-2	
Trichloroethene	2	ug/L	1	8260B	07/25/11 18:58	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	07/25/11 18:58	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	07/25/11 18:58	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	07/25/11 18:58	WAT		
o-Xylene	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	07/25/11 18:58	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	07/25/11 18:58	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 18:58	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	07/25/11 18:58	WAT	67-72-1	

Lab Sample ID: S49337.11 (continued)
Sample Tag: MP011_07142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	07/25/11 18:58	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	07/25/11 18:58	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	07/25/11 18:58	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	07/25/11 18:58	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	07/25/11 18:58	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49337.12
Sample Tag: MP013_07142011
Collected Date/Time: 07/14/2011 08:45
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR
1	250ml Plastic	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	07/22/11 12:00	PER		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	07/20/11 11:04	JDP	57-12-5	
Total Suspended Solids	12	mg/L	1	2540 D	07/20/11 10:45	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	07/22/11 16:31	PER	7440-36-0	
Arsenic	0.002	mg/L	0.002	200.8	07/22/11 16:31	PER	7440-38-2	
Barium	0.143	mg/L	0.005	200.8	07/22/11 16:31	PER	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	07/22/11 16:31	PER	7440-41-7	
Cadmium	0.0005	mg/L	0.0005	200.8	07/22/11 16:31	PER	7440-43-9	
Chromium	0.014	mg/L	0.005	200.8	07/22/11 16:31	PER	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	07/22/11 16:31	PER	7440-48-4	
Copper	0.059	mg/L	0.004	200.8	07/22/11 16:31	PER	7440-50-8	
Lead	0.014	mg/L	0.003	200.8	07/22/11 16:31	PER	7439-92-1	
Manganese	0.528	mg/L	0.005	200.8	07/22/11 16:31	PER	7439-96-5	
Nickel	0.008	mg/L	0.005	200.8	07/22/11 16:31	PER	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	07/22/11 16:31	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	07/22/11 16:31	PER	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	07/22/11 16:31	PER	7440-28-0	
Titanium	Not detected	mg/L	0.020	200.8	07/22/11 16:31	PER	7440-32-6	
Vanadium	0.004	mg/L	0.004	200.8	07/22/11 16:31	PER	7440-62-2	
Zinc	0.099	mg/L	0.005	200.8	07/22/11 16:31	PER	7440-66-6	

Lab Sample ID: S49337.13
Sample Tag: Equip_Blank2_07142011
Collected Date/Time: 07/14/2011 09:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	07/22/11 12:00	PER		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	07/20/11 11:06	JDP	57-12-5	
Metals								
Antimony	Not detected	mg/L	0.005	200.8	07/22/11 14:04	PER	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	07/22/11 14:04	PER	7440-38-2	
Barium	Not detected	mg/L	0.005	200.8	07/22/11 14:04	PER	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	07/22/11 14:04	PER	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	07/22/11 14:04	PER	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	07/22/11 14:04	PER	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	07/22/11 14:04	PER	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	07/22/11 14:04	PER	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	07/22/11 14:04	PER	7439-92-1	
Manganese	Not detected	mg/L	0.005	200.8	07/22/11 14:04	PER	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	07/22/11 14:04	PER	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	07/22/11 14:04	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	07/22/11 14:04	PER	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	07/22/11 14:04	PER	7440-28-0	
Titanium	Not detected	mg/L	0.020	200.8	07/22/11 14:04	PER	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	07/22/11 14:04	PER	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	07/22/11 14:04	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	07/25/11 19:16	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	07/25/11 19:16	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	07/25/11 19:16	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	07/25/11 19:16	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	07/25/11 19:16	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	07/25/11 19:16	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	07/25/11 19:16	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	07/25/11 19:16	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	07/25/11 19:16	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	07/25/11 19:16	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	07/25/11 19:16	WAT	75-09-2	

Lab Sample ID: S49337.13 (continued)
Sample Tag: Equip_Blank2_07142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	07/25/11 19:16	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	07/25/11 19:16	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	07/25/11 19:16	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	07/25/11 19:16	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	07/25/11 19:16	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	07/25/11 19:16	WAT		
o-Xylene	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	07/25/11 19:16	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	07/25/11 19:16	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 19:16	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	07/25/11 19:16	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	07/25/11 19:16	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	07/25/11 19:16	WAT	120-82-1	

Lab Sample ID: S49337.13 (continued)
Sample Tag: Equip_Blank2_07142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	07/25/11 19:16	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	07/25/11 19:16	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	07/25/11 19:16	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49337.14
Sample Tag: Duplicate001_07142011
Collected Date/Time: 07/14/2011 00:01
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR
1	250ml Plastic	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	07/22/11 12:00	PER		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	07/20/11 11:08	JDP	57-12-5	
Total Suspended Solids	1	mg/L	1	2540 D	07/20/11 10:45	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	07/22/11 16:36	PER	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	07/22/11 16:36	PER	7440-38-2	
Barium	0.101	mg/L	0.005	200.8	07/22/11 16:36	PER	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	07/22/11 16:36	PER	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	07/22/11 16:36	PER	7440-43-9	
Chromium	0.007	mg/L	0.005	200.8	07/22/11 16:36	PER	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	07/22/11 16:36	PER	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	07/22/11 16:36	PER	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	07/22/11 16:36	PER	7439-92-1	
Manganese	0.068	mg/L	0.005	200.8	07/22/11 16:36	PER	7439-96-5	
Nickel	0.005	mg/L	0.005	200.8	07/22/11 16:36	PER	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	07/22/11 16:36	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	07/22/11 16:36	PER	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	07/22/11 16:36	PER	7440-28-0	
Titanium	Not detected	mg/L	0.020	200.8	07/22/11 16:36	PER	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	07/22/11 16:36	PER	7440-62-2	
Zinc	0.011	mg/L	0.005	200.8	07/22/11 16:36	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	07/25/11 19:35	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	07/25/11 19:35	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	07/25/11 19:35	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	07/25/11 19:35	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	07/25/11 19:35	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	07/25/11 19:35	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	07/25/11 19:35	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	07/25/11 19:35	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	07/25/11 19:35	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	07/25/11 19:35	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	75-69-4	

Lab Sample ID: S49337.14 (continued)
Sample Tag: Duplicate001_07142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	07/25/11 19:35	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	75-34-3	
cis-1,2-Dichloroethene	2	ug/L	1	8260B	07/25/11 19:35	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	07/25/11 19:35	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	07/25/11 19:35	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	07/25/11 19:35	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	07/25/11 19:35	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	07/25/11 19:35	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	07/25/11 19:35	WAT		
o-Xylene	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	07/25/11 19:35	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	07/25/11 19:35	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 19:35	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	07/25/11 19:35	WAT	67-72-1	

Lab Sample ID: S49337.14 (continued)
Sample Tag: Duplicate001_07142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	07/25/11 19:35	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	07/25/11 19:35	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	07/25/11 19:35	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	07/25/11 19:35	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	07/25/11 19:35	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49337.15
Sample Tag: Trip_Blank_07142011
Collected Date/Time: 07/14/2011 00:01
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	07/25/11 19:53	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	07/25/11 19:53	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	07/25/11 19:53	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	07/25/11 19:53	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	07/25/11 19:53	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	07/25/11 19:53	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	07/25/11 19:53	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	07/25/11 19:53	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	07/25/11 19:53	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	07/25/11 19:53	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	07/25/11 19:53	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	07/25/11 19:53	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	07/25/11 19:53	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	07/25/11 19:53	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	07/25/11 19:53	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	07/25/11 19:53	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	100-41-4	

Lab Sample ID: S49337.15 (continued)
Sample Tag: Trip_Blank_07142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
p,m-Xylene	Not detected	ug/L	2	8260B	07/25/11 19:53	WAT		
o-Xylene	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	07/25/11 19:53	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	07/25/11 19:53	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 19:53	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	07/25/11 19:53	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	07/25/11 19:53	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	07/25/11 19:53	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	07/25/11 19:53	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	07/25/11 19:53	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	07/25/11 19:53	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49337.16
Sample Tag: Field_Blank_07142011
Collected Date/Time: 07/14/2011 09:55
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR
1	250ml Plastic	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	07/22/11 12:00	PER		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	07/20/11 11:10	JDP	57-12-5	
Metals								
Antimony	Not detected	mg/L	0.005	200.8	07/22/11 14:06	PER	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	07/22/11 14:06	PER	7440-38-2	
Barium	Not detected	mg/L	0.005	200.8	07/22/11 14:06	PER	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	07/22/11 14:06	PER	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	07/22/11 14:06	PER	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	07/22/11 14:06	PER	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	07/22/11 14:06	PER	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	07/22/11 14:06	PER	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	07/22/11 14:06	PER	7439-92-1	
Manganese	Not detected	mg/L	0.005	200.8	07/22/11 14:06	PER	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	07/22/11 14:06	PER	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	07/22/11 14:06	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	07/22/11 14:06	PER	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	07/22/11 14:06	PER	7440-28-0	
Titanium	Not detected	mg/L	0.020	200.8	07/22/11 14:06	PER	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	07/22/11 14:06	PER	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	07/22/11 14:06	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	07/25/11 20:12	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	07/25/11 20:12	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	07/25/11 20:12	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	07/25/11 20:12	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	07/25/11 20:12	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	07/25/11 20:12	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	07/25/11 20:12	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	07/25/11 20:12	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	07/25/11 20:12	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	07/25/11 20:12	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	75-35-4	

Lab Sample ID: S49337.16 (continued)
Sample Tag: Field_Blank_07142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Methylene chloride	Not detected	ug/L	5	8260B	07/25/11 20:12	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	07/25/11 20:12	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	07/25/11 20:12	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	07/25/11 20:12	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	07/25/11 20:12	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	07/25/11 20:12	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	07/25/11 20:12	WAT		
o-Xylene	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	07/25/11 20:12	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	07/25/11 20:12	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	07/25/11 20:12	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	07/25/11 20:12	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	07/25/11 20:12	WAT	96-12-8	

Lab Sample ID: S49337.16 (continued)
Sample Tag: Field_Blank_07142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	07/25/11 20:12	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	07/25/11 20:12	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	07/25/11 20:12	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	07/25/11 20:12	WAT	91-57-6	

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C.O.C. PAGE # 1 OF 2

*Please also send a copy of invoicing to Micki Maki (ARCADIS)

REPORT TO

CONTACT NAME: Mike Brennan / Micki Maki / Tony Maffeo
COMPANY: ARCADIS
ADDRESS: 10559 Citation Dr., Suite 100
CITY: Brighton STATE: Mi ZIP CODE: 48116
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: SEE CONTRACT FOR DETAILS QUOTE NO.:

INVOICE TO

CONTACT NAME: Ms. Monica Wallingford ☐ SAME
COMPANY: RACER Trust
ADDRESS: 401 S. Old Woodward Ave., Suite 370
CITY: Birmingham STATE: MI ZIP CODE: 48009
PHONE NO.: 313.486.2928 FAX NO.: - P.O. NO.: MLT-1295

PROJECT NO./NAME: B0064410.2011.00801
SAMPLER(S) - PLEASE PRINT/SIGN NAME: DLN/AO

TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☒ OTHER EDD

MATRIX CODE: GW=GROUNDWATER, WW=WASTEWATER, S=SOIL, L=LIQUID, SD=SOLID, SL=SLUDGE, O=OIL, A=AIR, W=WASTE, M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

SPECIAL INSTRUCTIONS/NOTES: Metals to include: Ag, As, Ba, Be, Cd, Cr (total), Co, Cu, Mn, Ni, Pb, Sb, Ti, Se, V, and Zn.

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	METALS	CYANIDE	TSS	VOCs							SPECIAL INSTRUCTIONS/NOTES
49337.01	07/14/11	1030	MP001_07142011	L	5	1	2	1		1			X	X	X	X							
02/03/04	07/14/11	1039	MP002_07142011	L	15	1	2	1		1			X	X	X	X							MS/MSD
.05	07/14/11	1120	MP003_07142011	L	5	1	2	1		1			X	X	X	X							
.06	07/14/11	1110	MP005_07142011	L	3	1		1		1			X	X	X								
.07	07/14/11	1020	MP006_07142011	L	5	1	2	1		1			X	X	X	X							
.08	07/14/11	0915	MP007_07142011	L	5	1	2	1		1			X	X	X	X							
.09	07/14/11	1050	MP009_07142011	L	5	1	2	1		1			X	X	X	X							
.10	07/14/11	1010	MP010_07142011	L	5	1	2	1		1			X	X	X	X							
.11	07/14/11	0940	MP011_07142011	L	5	1	2	1		1			X	X	X	X							
.12	07/14/11	0845	MP013_07142011	L	3	1		1		1			X	X	X								
.13	07/14/11	0930	Equip_Blank2_07142011	L	4		2	1		1			X	X		X							
.14	07/14/11	—	Duplicate001_07142011	L	5	1	2	1		1			X	X	X	X							

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE 7/14/11	TIME 1215	RELINQUISHED BY: SIGNATURE/ORGANIZATION
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE 7/14/11	TIME 1215	RECEIVED BY: SIGNATURE/ORGANIZATION
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO. / SEAL INTACT YES ☐ NO ☐ / INITIALS
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO. / SEAL INTACT YES ☐ NO ☐ / INITIALS

DATE 7-14-11 TIME 1400
DATE 7-14-11 TIME 1400

NOTES: TEMP. ON ARRIVAL 4.4

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

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COMPANY: RACER Trust
ADDRESS: 401 S. Old Woodward Ave., Suite 370
CITY: Birmingham STATE: MI ZIP CODE: 48009
PHONE NO.: 313.486.2928 FAX NO.: - P.O. NO.: MLT-1295

PROJECT NO./NAME: B0064410.2011.00801
SAMPLER(S) - PLEASE PRINT/SIGN NAME: DLN/AO

TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☒ OTHER EDD

MATRIX CODE: GW=GROUNDWATER SL=SLUDGE WW=WASTEWATER O=OIL S=SOIL A=AIR L=LIQUID W=WASTE SD=SOLID M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOC	Metals	Cyanide								SPECIAL INSTRUCTIONS/NOTES
49537.15	—	—	Trip_Blank_07142011	L	2		2						X										LAB FILLED
.16	7/14/11	0955	FIELD_BLANK_07142011	L	~~2~~ 4		2	1		1			X	X	X								

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
	7-14-11	12:15		7-14-11	1400
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME
	7-14-11	1215		7-14-11	1420
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS

NOTES: TEMP. ON ARRIVAL 4°

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Analytical Laboratory Report

Report ID: S49345.01(01)
Generated on 07/15/2011

Report to

Attention: Mike Brennan/Micki Macki/Tony M.
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S49345.01-S49345.02
Project: B0064410.2011.00801
Collected Date: 07/13/2011
Submitted Date/Time: 07/14/2011 14:00
Sampled by: DLN
P.O. #: MLT-1295

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (2 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S49345.01	Outfall 003A 07132011	Liquid	07/13/2011 08:20
S49345.02	ISCO Blank 07132011	Liquid	07/13/2011 09:00

Analytical Laboratory Report

Lab Sample ID: S49345.01
Sample Tag: Outfall 003A 07132011
Collected Date/Time: 07/13/2011 08:20
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	07/14/11 21:47	EMR		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	07/15/11 12:39	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	07/15/11 12:39	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	07/15/11 12:39	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	07/15/11 12:39	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	07/15/11 12:39	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	07/15/11 12:39	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	07/15/11 12:39	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	07/15/11 12:39	JANB	1336-36-3	

Analytical Laboratory Report

Lab Sample ID: S49345.02
Sample Tag: ISCO Blank 07132011
Collected Date/Time: 07/13/2011 09:00
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	07/14/11 21:47	EMR		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	07/15/11 12:49	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	07/15/11 12:49	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	07/15/11 12:49	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	07/15/11 12:49	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	07/15/11 12:49	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	07/15/11 12:49	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	07/15/11 12:49	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	07/15/11 12:49	JANB	1336-36-3	

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REPORT TO

CONTACT NAME: Mike Brennan / Micki Maki / Tony Maffeo
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E-MAIL ADDRESS: SEE CONTRACT FOR DETAILS QUOTE NO:

INVOICE TO

CONTACT NAME: Ms. Monica Wallingford ☐ SAME
COMPANY: RACER Trust
ADDRESS: 401 S. Old Woodward Ave., Suite 370
CITY: Birmingham STATE: MI ZIP CODE: 48009
PHONE NO.: 313.486.2928 FAX NO.: - P.O. NO.: MLT-1295

PROJECT NO./NAME: B0064410.2011.00801
SAMPLER(S) - PLEASE PRINT/SIGN NAME: DLN/AO

TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☒ OTHER EDD

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED): PCB

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB	SPECIAL INSTRUCTIONS/NOTES
49345.01	07/13/11	08:20	Outfall003A_07132011	L	2	2							X	
.02	07/13/11	09:00	ISCO_Blank_07132011	L	2	2							X	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
	7-14-11	1215		7-14-11	1400
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME
	7-14-11	1215		7-14-11	1400
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO. / SEAL INTACT YES ☐ NO ☐ / INITIALS	NOTES: TEMP. ON ARRIVAL 4.4	
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO. / SEAL INTACT YES ☐ NO ☐ / INITIALS		

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Analytical Laboratory Report

Report ID: S49456.01(01)
Generated on 07/26/2011

Report to

Attention: Mike Brennan/Micki Macki/Tony M.
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S49456.01-S49456.02
Project: B0064410.2011.00801
Collected Date: 07/22/2011
Submitted Date/Time: 07/25/2011 13:30
Sampled by: DLN
P.O. #: MLT-1295

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (2 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S49456.01	Outfall 005 (07222011)	Liquid	07/22/2011 17:30
S49456.02	ISCO_Blank_07222011	Liquid	07/22/2011 18:00

Analytical Laboratory Report

Lab Sample ID: S49456.01
Sample Tag: Outfall 005 (07222011)
Collected Date/Time: 07/22/2011 17:30
Matrix: Liquid
COC Reference: 61223

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	07/25/11 23:45	EMR		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	07/26/11 12:21	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	07/26/11 12:21	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	07/26/11 12:21	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	07/26/11 12:21	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	07/26/11 12:21	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	07/26/11 12:21	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	07/26/11 12:21	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	07/26/11 12:21	JANB	1336-36-3	

Analytical Laboratory Report

Lab Sample ID: S49456.02
Sample Tag: ISCO_Blank_07222011
Collected Date/Time: 07/22/2011 18:00
Matrix: Liquid
COC Reference: 61223

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.9	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	07/25/11 23:45	EMR		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	07/26/11 12:32	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	07/26/11 12:32	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	07/26/11 12:32	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	07/26/11 12:32	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	07/26/11 12:32	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	07/26/11 12:32	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	07/26/11 12:32	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	07/26/11 12:32	JANB	1336-36-3	

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

61223

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Micki Maki / Tony Maffei / Mike Brennan
COMPANY: ARCADIS
ADDRESS: 10559 Citation Dr
CITY: Brighton STATE: MI ZIP CODE: 48116
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: SEE CONTRACT FOR DETAILS QUOTE NO.:

INVOICE TO

CONTACT NAME: Monica Wallingford ☐ SAME
COMPANY: RACER Trust
ADDRESS: 2930 Ecorse Rd
CITY: Ypsilanti STATE: MI ZIP CODE: 48198
PHONE NO.: 313 486 2928 FAX NO.: P.O. NO.: MLT 1295

PROJECT NO./NAME: EPCA4410.2011.00801
SAMPLER(S) - PLEASE PRINT/SIGN NAME: BAN

TURNAROUND TIME REQUIRED ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☒ STANDARD ☐ LEVEL II ☐ LEVEL III ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED): PCB

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB	SPECIAL INSTRUCTIONS/NOTES
49456.01	7/22/11	1730	OUTFALL 005 (07222011)	L	1	1							X	SAMPLER RAN
.02	↓	1800	EQ_BLANK_07222011	L	2	2							X	7/21 1730 to
														7/22 1730

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
[signature]	7/25/11	1230	[signature]	7-25-11	1330
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME
[signature]	7-25-11	1230	[signature]	7-25-11	1330
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS

NOTES: TEMP. ON ARRIVAL 4.9

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Analytical Laboratory Report

Revised Report

Report ID: S49691.01(02)
Generated on 12/13/2011
Replaces report S49691.01(01) generated on 08/22/2011

Report to

Attention: Mike Brennan/Micki Macki/Tony M.
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S49691.01-S49691.20
Project: B0064410.2011.00801
Collected Date: 08/15/2011
Submitted Date/Time: 08/15/2011 14:35
Sampled by: DLN/AO/ AMM/MR
P.O. #: B0064410.2011.0

* Thallium reported instead of titanium.

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Sample Summary (20 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S49691.01	MP001_08152011	Liquid	08/15/2011 09:00
S49691.02	MP002_08152011	Liquid	08/15/2011 09:15
S49691.03	MP003_08152011	Liquid	08/15/2011 09:45
S49691.04	MP005_08152011	Liquid	08/15/2011 10:02
S49691.05	MP006_08152011	Liquid	08/15/2011 11:05
S49691.06	MP007_08152011	Liquid	08/15/2011 11:20
S49691.07	MP009_08152011	Liquid	08/15/2011 10:40
S49691.08	MP009_08152011 MS	Liquid	08/15/2011 10:40
S49691.09	MP009_08152011 MSD	Liquid	08/15/2011 10:40
S49691.10	MP010_08152011	Liquid	08/15/2011 12:10
S49691.11	MP013_08152011	Liquid	08/15/2011 11:45
S49691.12	DUP001_08152011	Liquid	08/15/2011 00:01
S49691.13	Field_Blank_08152011	Liquid	08/15/2011 12:00
S49691.14	Trip_Blank_08152011	Liquid	08/15/2011 00:01
S49691.15	MH-1-7-Outfall001(08152011)	Liquid	08/15/2011 09:15
S49691.16	MH-3-31-Outfall003(08152011)	Liquid	08/15/2011 09:35
S49691.17	MH-3-51-Outfall003(08152011)	Liquid	08/15/2011 12:05
S49691.18	MH-4-21-Outfall004(08152011)	Liquid	08/15/2011 11:00
S49691.19	MH-13-14-Outfall(08152011)	Liquid	08/15/2011 11:40
S49691.20	Equip_Blank_08152011	Liquid	08/15/2011 12:30

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49691.01
Sample Tag: MP001_08152011
Collected Date/Time: 08/15/2011 09:00
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR
1	125ml Plastic	NaOH	Yes	4.7	IR
1	250ml Plastic	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	08/16/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	08/19/11 13:38	JDP	57-12-5	
Total Suspended Solids	1	mg/L	1	2540 D	08/16/11 15:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	08/16/11 15:51	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	08/16/11 15:51	SLS	7440-38-2	
Barium	0.063	mg/L	0.005	200.8	08/16/11 15:51	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	08/16/11 15:51	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	08/16/11 15:51	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	08/16/11 15:51	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	08/16/11 15:51	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	08/16/11 15:51	SLS	7440-50-8	
Lead	0.014	mg/L	0.003	200.8	08/16/11 15:51	SLS	7439-92-1	
Manganese	Not detected	mg/L	0.005	200.8	08/16/11 15:51	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	08/16/11 15:51	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	08/16/11 15:51	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	08/16/11 15:51	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	08/16/11 15:51	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	08/16/11 15:51	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	08/16/11 15:51	SLS	7440-62-2	
Zinc	0.011	mg/L	0.005	200.8	08/17/11 18:25	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	08/18/11 14:55	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	08/18/11 14:55	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	08/18/11 14:55	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	08/18/11 14:55	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	08/18/11 14:55	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	08/18/11 14:55	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	08/18/11 14:55	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	08/18/11 14:55	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	08/18/11 14:55	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	08/18/11 14:55	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	75-69-4	

Lab Sample ID: S49691.01 (continued)
Sample Tag: MP001_08152011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	08/18/11 14:55	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	08/18/11 14:55	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	08/18/11 14:55	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	08/18/11 14:55	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	08/18/11 14:55	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	08/18/11 14:55	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	08/18/11 14:55	WAT		
o-Xylene	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	08/18/11 14:55	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	08/18/11 14:55	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	08/18/11 14:55	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	08/18/11 14:55	WAT	67-72-1	

Lab Sample ID: S49691.01 (continued)
Sample Tag: MP001_08152011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	08/18/11 14:55	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	08/18/11 14:55	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	08/18/11 14:55	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	08/18/11 14:55	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	08/18/11 14:55	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49691.02
Sample Tag: MP002_08152011
Collected Date/Time: 08/15/2011 09:15
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR
1	125ml Plastic	NaOH	Yes	4.7	IR
1	250ml Plastic	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	08/16/11 01:00	SLR		
Inorganics								
Cyanide	0.010	mg/L	0.005	335.4/4500-CN-E	08/19/11 13:40	JDP	57-12-5	
Total Suspended Solids	12	mg/L	1	2540 D	08/16/11 15:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	08/16/11 15:56	SLS	7440-36-0	
Arsenic	0.010	mg/L	0.002	200.8	08/16/11 15:56	SLS	7440-38-2	
Barium	0.298	mg/L	0.005	200.8	08/16/11 15:56	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	08/16/11 15:56	SLS	7440-41-7	
Cadmium	0.0007	mg/L	0.0005	200.8	08/16/11 15:56	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	08/16/11 15:56	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	08/16/11 15:56	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	08/16/11 15:56	SLS	7440-50-8	
Lead	0.015	mg/L	0.003	200.8	08/16/11 15:56	SLS	7439-92-1	
Manganese	0.529	mg/L	0.005	200.8	08/16/11 15:56	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	08/16/11 15:56	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	08/16/11 15:56	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	08/16/11 15:56	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	08/16/11 15:56	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	08/16/11 15:56	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	08/16/11 15:56	SLS	7440-62-2	
Zinc	0.008	mg/L	0.005	200.8	08/17/11 18:26	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	08/18/11 15:13	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	08/18/11 15:13	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	08/18/11 15:13	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	08/18/11 15:13	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	08/18/11 15:13	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	08/18/11 15:13	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	08/18/11 15:13	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	08/18/11 15:13	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	08/18/11 15:13	WAT	74-83-9	
Chloroethane	12	ug/L	5	8260B	08/18/11 15:13	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	75-69-4	

Lab Sample ID: S49691.02 (continued)
Sample Tag: MP002_08152011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	1	ug/L	1	8260B	08/18/11 15:13	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	08/18/11 15:13	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	156-60-5	
1,1-Dichloroethane	13	ug/L	1	8260B	08/18/11 15:13	WAT	75-34-3	
cis-1,2-Dichloroethene	8	ug/L	1	8260B	08/18/11 15:13	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	08/18/11 15:13	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	74-97-5	
1,1,1-Trichloroethane	22	ug/L	1	8260B	08/18/11 15:13	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	08/18/11 15:13	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	08/18/11 15:13	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	107-06-2	
Trichloroethene	2	ug/L	1	8260B	08/18/11 15:13	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	08/18/11 15:13	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	10061-01-5	
Toluene	1	ug/L	1	8260B	08/18/11 15:13	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	08/18/11 15:13	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	08/18/11 15:13	WAT		
o-Xylene	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	08/18/11 15:13	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	08/18/11 15:13	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	08/18/11 15:13	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	08/18/11 15:13	WAT	67-72-1	

Lab Sample ID: S49691.02 (continued)
Sample Tag: MP002_08152011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	08/18/11 15:13	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	08/18/11 15:13	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	08/18/11 15:13	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	08/18/11 15:13	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	08/18/11 15:13	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49691.03
Sample Tag: MP003_08152011
Collected Date/Time: 08/15/2011 09:45
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR
1	125ml Plastic	NaOH	Yes	4.7	IR
1	250ml Plastic	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	08/16/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	08/19/11 13:42	JDP	57-12-5	
Total Suspended Solids	39	mg/L	1	2540 D	08/16/11 15:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	08/16/11 16:01	SLS	7440-36-0	
Arsenic	0.005	mg/L	0.002	200.8	08/16/11 16:01	SLS	7440-38-2	
Barium	0.151	mg/L	0.005	200.8	08/16/11 16:01	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	08/16/11 16:01	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	08/16/11 16:01	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	08/16/11 16:01	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	08/16/11 16:01	SLS	7440-48-4	
Copper	0.008	mg/L	0.004	200.8	08/16/11 16:01	SLS	7440-50-8	
Lead	0.026	mg/L	0.003	200.8	08/16/11 16:01	SLS	7439-92-1	
Manganese	0.852	mg/L	0.005	200.8	08/16/11 16:01	SLS	7439-96-5	
Nickel	0.007	mg/L	0.005	200.8	08/16/11 16:01	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	08/16/11 16:01	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	08/16/11 16:01	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	08/16/11 16:01	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	08/16/11 16:01	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	08/16/11 16:01	SLS	7440-62-2	
Zinc	0.044	mg/L	0.005	200.8	08/17/11 18:28	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	08/18/11 15:31	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	08/18/11 15:31	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	08/18/11 15:31	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	08/18/11 15:31	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	08/18/11 15:31	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	08/18/11 15:31	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	08/18/11 15:31	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	08/18/11 15:31	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	08/18/11 15:31	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	08/18/11 15:31	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	75-69-4	

Lab Sample ID: S49691.03 (continued)
Sample Tag: MP003_08152011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	08/18/11 15:31	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	08/18/11 15:31	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	08/18/11 15:31	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	08/18/11 15:31	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	08/18/11 15:31	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	08/18/11 15:31	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	08/18/11 15:31	WAT		
o-Xylene	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	08/18/11 15:31	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	08/18/11 15:31	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	08/18/11 15:31	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	08/18/11 15:31	WAT	67-72-1	

Lab Sample ID: S49691.03 (continued)
Sample Tag: MP003_08152011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	08/18/11 15:31	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	08/18/11 15:31	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	08/18/11 15:31	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	08/18/11 15:31	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	08/18/11 15:31	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49691.04
Sample Tag: MP005_08152011
Collected Date/Time: 08/15/2011 10:02
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.7	IR
1	125ml Plastic	NaOH	Yes	4.7	IR
1	250ml Plastic	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	08/16/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	08/19/11 13:44	JDP	57-12-5	
Total Suspended Solids	6	mg/L	1	2540 D	08/16/11 15:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	08/16/11 16:05	SLS	7440-36-0	
Arsenic	0.009	mg/L	0.002	200.8	08/16/11 16:05	SLS	7440-38-2	
Barium	0.086	mg/L	0.005	200.8	08/16/11 16:05	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	08/16/11 16:05	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	08/16/11 16:05	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	08/16/11 16:05	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	08/16/11 16:05	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	08/16/11 16:05	SLS	7440-50-8	
Lead	0.017	mg/L	0.003	200.8	08/16/11 16:05	SLS	7439-92-1	
Manganese	0.123	mg/L	0.005	200.8	08/16/11 16:05	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	08/16/11 16:05	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	08/16/11 16:05	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	08/16/11 16:05	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	08/16/11 16:05	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	08/16/11 16:05	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	08/16/11 16:05	SLS	7440-62-2	
Zinc	0.006	mg/L	0.005	200.8	08/17/11 18:29	PER	7440-66-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49691.05
Sample Tag: MP006_08152011
Collected Date/Time: 08/15/2011 11:05
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR
1	250ml Plastic	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	08/16/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	08/19/11 13:46	JDP	57-12-5	
Total Suspended Solids	4	mg/L	1	2540 D	08/16/11 15:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	08/16/11 16:10	SLS	7440-36-0	
Arsenic	0.003	mg/L	0.002	200.8	08/16/11 16:10	SLS	7440-38-2	
Barium	0.086	mg/L	0.005	200.8	08/16/11 16:10	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	08/16/11 16:10	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	08/16/11 16:10	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	08/16/11 16:10	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	08/16/11 16:10	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	08/16/11 16:10	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	08/16/11 16:10	SLS	7439-92-1	
Manganese	0.209	mg/L	0.005	200.8	08/16/11 16:10	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	08/16/11 16:10	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	08/16/11 16:10	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	08/16/11 16:10	SLS	7440-22-4	
Thallium	0.001	mg/L	0.001	200.8	08/16/11 16:10	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	08/16/11 16:10	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	08/16/11 16:10	SLS	7440-62-2	
Zinc	0.018	mg/L	0.005	200.8	08/17/11 18:30	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	08/18/11 15:49	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	08/18/11 15:49	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	08/18/11 15:49	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	08/18/11 15:49	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	08/18/11 15:49	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	08/18/11 15:49	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	08/18/11 15:49	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	08/18/11 15:49	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	08/18/11 15:49	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	08/18/11 15:49	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	75-69-4	

Lab Sample ID: S49691.05 (continued)
Sample Tag: MP006_08152011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	08/18/11 15:49	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	08/18/11 15:49	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	08/18/11 15:49	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	08/18/11 15:49	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	08/18/11 15:49	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	08/18/11 15:49	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	08/18/11 15:49	WAT		
o-Xylene	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	08/18/11 15:49	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	08/18/11 15:49	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	08/18/11 15:49	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	08/18/11 15:49	WAT	67-72-1	

Lab Sample ID: S49691.05 (continued)
Sample Tag: MP006_08152011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	08/18/11 15:49	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	08/18/11 15:49	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	08/18/11 15:49	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	08/18/11 15:49	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	08/18/11 15:49	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49691.06
Sample Tag: MP007_08152011
Collected Date/Time: 08/15/2011 11:20
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR
1	125ml Plastic	NaOH	Yes	4.7	IR
1	250ml Plastic	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	08/16/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	08/19/11 13:48	JDP	57-12-5	
Total Suspended Solids	12	mg/L	1	2540 D	08/16/11 15:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	08/16/11 16:15	SLS	7440-36-0	
Arsenic	0.003	mg/L	0.002	200.8	08/16/11 16:15	SLS	7440-38-2	
Barium	0.069	mg/L	0.005	200.8	08/16/11 16:15	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	08/16/11 16:15	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	08/16/11 16:15	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	08/16/11 16:15	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	08/16/11 16:15	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	08/16/11 16:15	SLS	7440-50-8	
Lead	0.006	mg/L	0.003	200.8	08/16/11 16:15	SLS	7439-92-1	
Manganese	0.020	mg/L	0.005	200.8	08/16/11 16:15	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	08/16/11 16:15	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	08/16/11 16:15	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	08/16/11 16:15	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	08/16/11 16:15	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	08/16/11 16:15	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	08/16/11 16:15	SLS	7440-62-2	
Zinc	0.033	mg/L	0.005	200.8	08/17/11 18:31	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	08/18/11 16:07	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	08/18/11 16:07	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	08/18/11 16:07	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	08/18/11 16:07	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	08/18/11 16:07	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	08/18/11 16:07	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	08/18/11 16:07	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	08/18/11 16:07	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	08/18/11 16:07	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	08/18/11 16:07	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	75-69-4	

Lab Sample ID: S49691.06 (continued)
Sample Tag: MP007_08152011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	08/18/11 16:07	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	156-60-5	
1,1-Dichloroethane	2	ug/L	1	8260B	08/18/11 16:07	WAT	75-34-3	
cis-1,2-Dichloroethene	1	ug/L	1	8260B	08/18/11 16:07	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	08/18/11 16:07	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	08/18/11 16:07	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	08/18/11 16:07	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	107-06-2	
Trichloroethene	1	ug/L	1	8260B	08/18/11 16:07	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	08/18/11 16:07	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	08/18/11 16:07	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	08/18/11 16:07	WAT		
o-Xylene	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	08/18/11 16:07	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	08/18/11 16:07	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	08/18/11 16:07	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	08/18/11 16:07	WAT	67-72-1	

Lab Sample ID: S49691.06 (continued)
Sample Tag: MP007_08152011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	08/18/11 16:07	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	08/18/11 16:07	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	08/18/11 16:07	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	08/18/11 16:07	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	08/18/11 16:07	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49691.07
Sample Tag: MP009_08152011
Collected Date/Time: 08/15/2011 10:40
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR
1	125ml Plastic	NaOH	Yes	4.7	IR
1	250ml Plastic	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	08/16/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	08/19/11 13:50	JDP	57-12-5	
Total Suspended Solids	24	mg/L	1	2540 D	08/16/11 15:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	08/16/11 16:34	SLS	7440-36-0	
Arsenic	0.003	mg/L	0.002	200.8	08/16/11 16:34	SLS	7440-38-2	
Barium	0.271	mg/L	0.005	200.8	08/16/11 16:34	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	08/16/11 16:34	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	08/16/11 16:34	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	08/16/11 16:34	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	08/16/11 16:34	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	08/16/11 16:34	SLS	7440-50-8	
Lead	0.007	mg/L	0.003	200.8	08/16/11 16:34	SLS	7439-92-1	
Manganese	1.44	mg/L	0.005	200.8	08/16/11 16:34	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	08/16/11 16:34	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	08/16/11 16:34	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	08/16/11 16:34	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	08/16/11 16:34	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	08/16/11 16:34	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	08/16/11 16:34	SLS	7440-62-2	
Zinc	0.022	mg/L	0.005	200.8	08/17/11 18:33	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	08/18/11 16:25	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	08/18/11 16:25	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	08/18/11 16:25	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	08/18/11 16:25	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	08/18/11 16:25	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	08/18/11 16:25	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	08/18/11 16:25	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	08/18/11 16:25	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	08/18/11 16:25	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	08/18/11 16:25	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	75-69-4	

Lab Sample ID: S49691.07 (continued)
Sample Tag: MP009_08152011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	08/18/11 16:25	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	75-34-3	
cis-1,2-Dichloroethene	8	ug/L	1	8260B	08/18/11 16:25	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	08/18/11 16:25	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	08/18/11 16:25	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	08/18/11 16:25	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	107-06-2	
Trichloroethene	3	ug/L	1	8260B	08/18/11 16:25	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	08/18/11 16:25	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	08/18/11 16:25	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	08/18/11 16:25	WAT		
o-Xylene	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	08/18/11 16:25	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	08/18/11 16:25	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	08/18/11 16:25	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	08/18/11 16:25	WAT	67-72-1	

Lab Sample ID: S49691.07 (continued)
Sample Tag: MP009_08152011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	08/18/11 16:25	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	08/18/11 16:25	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	08/18/11 16:25	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	08/18/11 16:25	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	08/18/11 16:25	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49691.08
Sample Tag: MP009_08152011 MS
Collected Date/Time: 08/15/2011 10:40
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR
1	125ml Plastic	NaOH	Yes	4.7	IR
1	250ml Plastic	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	08/16/11 01:00	SLR		
Inorganics								
Cyanide	0.094	mg/L	0.005	335.4/4500-CN-E	08/19/11 13:54	JDP	57-12-5	
Total Suspended Solids	19	mg/L	1	2540 D	08/16/11 15:15	DJS		
Metals								
Antimony	0.270	mg/L	0.005	200.8	08/16/11 16:38	SLS	7440-36-0	
Arsenic	0.276	mg/L	0.002	200.8	08/16/11 16:38	SLS	7440-38-2	
Barium	0.555	mg/L	0.005	200.8	08/16/11 16:38	SLS	7440-39-3	
Beryllium	0.273	mg/L	0.001	200.8	08/16/11 16:38	SLS	7440-41-7	
Cadmium	0.2691	mg/L	0.0005	200.8	08/16/11 16:38	SLS	7440-43-9	
Chromium	0.260	mg/L	0.005	200.8	08/16/11 16:38	SLS	7440-47-3	
Cobalt	0.257	mg/L	0.005	200.8	08/16/11 16:38	SLS	7440-48-4	
Copper	0.263	mg/L	0.004	200.8	08/16/11 16:38	SLS	7440-50-8	
Lead	0.261	mg/L	0.003	200.8	08/16/11 16:38	SLS	7439-92-1	
Manganese	2.74	mg/L	0.005	200.8	08/16/11 16:50	SLS	7439-96-5	
Nickel	0.264	mg/L	0.005	200.8	08/16/11 16:38	SLS	7440-02-0	
Selenium	0.289	mg/L	0.005	200.8	08/16/11 16:38	SLS	7782-49-2	
Silver	0.2562	mg/L	0.0005	200.8	08/16/11 16:38	SLS	7440-22-4	
Thallium	0.258	mg/L	0.001	200.8	08/16/11 16:38	SLS	7440-28-0	
Titanium	0.27	mg/L	0.02	200.8	08/16/11 16:38	SLS	7440-32-6	
Vanadium	0.263	mg/L	0.004	200.8	08/16/11 16:38	SLS	7440-62-2	
Zinc	0.281	mg/L	0.0005	200.8	08/17/11 18:34	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	47	ug/L	10	8260B	08/18/11 20:02	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	8260B	08/18/11 20:02	WAT	67-64-1	1
Methyl iodide	45	ug/L	1	8260B	08/18/11 20:02	WAT	74-88-4	1
Carbon disulfide	44	ug/L	5	8260B	08/18/11 20:02	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	51	ug/L	5	8260B	08/18/11 20:02	WAT	1634-04-4	1
Acrylonitrile	47	ug/L	2	8260B	08/18/11 20:02	WAT	107-13-1	1
2-Butanone (MEK)	34	ug/L	25	8260B	08/18/11 20:02	WAT	78-93-3	1
Dichlorodifluoromethane	26	ug/L	5	8260B	08/18/11 20:02	WAT	75-71-8	1
Chloromethane	38	ug/L	5	8260B	08/18/11 20:02	WAT	74-87-3	1
Vinyl chloride	41	ug/L	1	8260B	08/18/11 20:02	WAT	75-01-4	1
Bromomethane	47	ug/L	5	8260B	08/18/11 20:02	WAT	74-83-9	1
Chloroethane	53	ug/L	5	8260B	08/18/11 20:02	WAT	75-00-3	1

1-Sample spiked at 50ug/l

Lab Sample ID: S49691.08 (continued)
Sample Tag: MP009_08152011 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Trichlorofluoromethane	49	ug/L	1	8260B	08/18/11 20:02	WAT	75-69-4	1
1,1-Dichloroethene	46	ug/L	1	8260B	08/18/11 20:02	WAT	75-35-4	1
Methylene chloride	49	ug/L	5	8260B	08/18/11 20:02	WAT	75-09-2	1
trans-1,2-Dichloroethene	48	ug/L	1	8260B	08/18/11 20:02	WAT	156-60-5	1
1,1-Dichloroethane	49	ug/L	1	8260B	08/18/11 20:02	WAT	75-34-3	1
cis-1,2-Dichloroethene	58	ug/L	1	8260B	08/18/11 20:02	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	8260B	08/18/11 20:02	WAT	109-99-9	1
Chloroform	52	ug/L	1	8260B	08/18/11 20:02	WAT	67-66-3	1
Bromochloromethane	51	ug/L	1	8260B	08/18/11 20:02	WAT	74-97-5	1
1,1,1-Trichloroethane	51	ug/L	1	8260B	08/18/11 20:02	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	08/18/11 20:02	WAT	108-10-1	1
2-Hexanone	Not detected	ug/L	50	8260B	08/18/11 20:02	WAT	591-78-6	1
Carbon tetrachloride	53	ug/L	1	8260B	08/18/11 20:02	WAT	56-23-5	1
Benzene	50	ug/L	1	8260B	08/18/11 20:02	WAT	71-43-2	1
1,2-Dichloroethane	51	ug/L	1	8260B	08/18/11 20:02	WAT	107-06-2	1
Trichloroethene	52	ug/L	1	8260B	08/18/11 20:02	WAT	79-01-6	1
1,2-Dichloropropane	51	ug/L	1	8260B	08/18/11 20:02	WAT	78-87-5	1
Bromodichloromethane	53	ug/L	1	8260B	08/18/11 20:02	WAT	75-27-4	1
Dibromomethane	52	ug/L	5	8260B	08/18/11 20:02	WAT	74-95-3	1
cis-1,3-Dichloropropene	51	ug/L	1	8260B	08/18/11 20:02	WAT	10061-01-5	1
Toluene	51	ug/L	1	8260B	08/18/11 20:02	WAT	108-88-3	1
trans-1,3-Dichloropropene	51	ug/L	1	8260B	08/18/11 20:02	WAT	10061-02-6	1
1,1,2-Trichloroethane	52	ug/L	1	8260B	08/18/11 20:02	WAT	79-00-5	1
Tetrachloroethene	49	ug/L	1	8260B	08/18/11 20:02	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	46	ug/L	1	8260B	08/18/11 20:02	WAT	110-57-6	1
Dibromochloromethane	51	ug/L	5	8260B	08/18/11 20:02	WAT	124-48-1	1
1,2-Dibromoethane	52	ug/L	1	8260B	08/18/11 20:02	WAT	106-93-4	1
Chlorobenzene	49	ug/L	1	8260B	08/18/11 20:02	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	54	ug/L	1	8260B	08/18/11 20:02	WAT	630-20-6	1
Ethylbenzene	50	ug/L	1	8260B	08/18/11 20:02	WAT	100-41-4	1
p,m-Xylene	100	ug/L	2	8260B	08/18/11 20:02	WAT		1
o-Xylene	51	ug/L	1	8260B	08/18/11 20:02	WAT	95-47-6	1
Styrene	48	ug/L	1	8260B	08/18/11 20:02	WAT	100-42-5	1
Isopropylbenzene	50	ug/L	5	8260B	08/18/11 20:02	WAT	98-82-8	1
Bromoform	51	ug/L	1	8260B	08/18/11 20:02	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	53	ug/L	1	8260B	08/18/11 20:02	WAT	79-34-5	1
1,2,3-Trichloropropane	50	ug/L	1	8260B	08/18/11 20:02	WAT	96-18-4	1
n-Propylbenzene	52	ug/L	1	8260B	08/18/11 20:02	WAT	103-65-1	1
Bromobenzene	52	ug/L	1	8260B	08/18/11 20:02	WAT	108-86-1	1
1,3,5-Trimethylbenzene	51	ug/L	1	8260B	08/18/11 20:02	WAT	108-67-8	1
tert-Butylbenzene	52	ug/L	1	8260B	08/18/11 20:02	WAT	98-06-6	1
1,2,4-Trimethylbenzene	52	ug/L	1	8260B	08/18/11 20:02	WAT	95-63-6	1
sec-Butylbenzene	49	ug/L	1	8260B	08/18/11 20:02	WAT	135-98-8	1
p-Isopropyltoluene	51	ug/L	5	8260B	08/18/11 20:02	WAT	99-87-6	1
1,3-Dichlorobenzene	50	ug/L	1	8260B	08/18/11 20:02	WAT	541-73-1	1
1,4-Dichlorobenzene	49	ug/L	1	8260B	08/18/11 20:02	WAT	106-46-7	1
1,2-Dichlorobenzene	51	ug/L	1	8260B	08/18/11 20:02	WAT	95-50-1	1
1,2,3-Trimethylbenzene	50	ug/L	1	8260B	08/18/11 20:02	WAT	526-73-8	1

1-Sample spiked at 50ug/l

Lab Sample ID: S49691.08 (continued)
Sample Tag: MP009_08152011 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	51	ug/L	1	8260B	08/18/11 20:02	WAT	104-51-8	1
Hexachloroethane	49	ug/L	5	8260B	08/18/11 20:02	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	53	ug/L	5	8260B	08/18/11 20:02	WAT	96-12-8	1
1,2,4-Trichlorobenzene	57	ug/L	5	8260B	08/18/11 20:02	WAT	120-82-1	1
1,2,3-Trichlorobenzene	60	ug/L	5	8260B	08/18/11 20:02	WAT	87-61-6	1
Naphthalene	59	ug/L	5	8260B	08/18/11 20:02	WAT	91-20-3	1
2-Methylnaphthalene	65	ug/L	5	8260B	08/18/11 20:02	WAT	91-57-6	1

1-Sample spiked at 50ug/l

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49691.09
Sample Tag: MP009_08152011 MSD
Collected Date/Time: 08/15/2011 10:40
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR
1	125ml Plastic	NaOH	Yes	4.7	IR
1	250ml Plastic	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	08/16/11 01:00	SLR		
Inorganics								
Cyanide	0.093	mg/L	0.005	335.4/4500-CN-E	08/19/11 13:56	JDP	57-12-5	
Total Suspended Solids	18	mg/L	1	2540 D	08/16/11 15:15	DJS		
Metals								
Antimony	0.255	mg/L	0.005	200.8	08/16/11 16:43	SLS	7440-36-0	
Arsenic	0.255	mg/L	0.002	200.8	08/16/11 16:43	SLS	7440-38-2	
Barium	0.534	mg/L	0.005	200.8	08/16/11 16:43	SLS	7440-39-3	
Beryllium	0.262	mg/L	0.001	200.8	08/16/11 16:43	SLS	7440-41-7	
Cadmium	0.2512	mg/L	0.0005	200.8	08/16/11 16:43	SLS	7440-43-9	
Chromium	0.246	mg/L	0.005	200.8	08/16/11 16:43	SLS	7440-47-3	
Cobalt	0.242	mg/L	0.005	200.8	08/16/11 16:43	SLS	7440-48-4	
Copper	0.245	mg/L	0.004	200.8	08/16/11 16:43	SLS	7440-50-8	
Lead	0.246	mg/L	0.003	200.8	08/16/11 16:43	SLS	7439-92-1	
Manganese	1.85	mg/L	0.005	200.8	08/16/11 16:43	SLS	7439-96-5	
Nickel	0.247	mg/L	0.005	200.8	08/16/11 16:43	SLS	7440-02-0	
Selenium	0.268	mg/L	0.005	200.8	08/16/11 16:43	SLS	7782-49-2	
Silver	0.2418	mg/L	0.0005	200.8	08/16/11 16:43	SLS	7440-22-4	
Thallium	0.245	mg/L	0.001	200.8	08/16/11 16:43	SLS	7440-28-0	
Titanium	0.26	mg/L	0.02	200.8	08/16/11 16:43	SLS	7440-32-6	
Vanadium	0.249	mg/L	0.004	200.8	08/16/11 16:43	SLS	7440-62-2	
Zinc	0.284	mg/L	0.0005	200.8	08/17/11 18:35	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	50	ug/L	10	8260B	08/18/11 20:20	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	8260B	08/18/11 20:20	WAT	67-64-1	1
Methyl iodide	47	ug/L	1	8260B	08/18/11 20:20	WAT	74-88-4	1
Carbon disulfide	46	ug/L	5	8260B	08/18/11 20:20	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	53	ug/L	5	8260B	08/18/11 20:20	WAT	1634-04-4	1
Acrylonitrile	53	ug/L	2	8260B	08/18/11 20:20	WAT	107-13-1	1
2-Butanone (MEK)	36	ug/L	25	8260B	08/18/11 20:20	WAT	78-93-3	1
Dichlorodifluoromethane	26	ug/L	5	8260B	08/18/11 20:20	WAT	75-71-8	1
Chloromethane	39	ug/L	5	8260B	08/18/11 20:20	WAT	74-87-3	1
Vinyl chloride	41	ug/L	1	8260B	08/18/11 20:20	WAT	75-01-4	1
Bromomethane	49	ug/L	5	8260B	08/18/11 20:20	WAT	74-83-9	1
Chloroethane	54	ug/L	5	8260B	08/18/11 20:20	WAT	75-00-3	1

1-Sample spiked at 50ug/l

Lab Sample ID: S49691.09 (continued)
Sample Tag: MP009_08152011 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Trichlorofluoromethane	49	ug/L	1	8260B	08/18/11 20:20	WAT	75-69-4	1
1,1-Dichloroethene	47	ug/L	1	8260B	08/18/11 20:20	WAT	75-35-4	1
Methylene chloride	51	ug/L	5	8260B	08/18/11 20:20	WAT	75-09-2	1
trans-1,2-Dichloroethene	50	ug/L	1	8260B	08/18/11 20:20	WAT	156-60-5	1
1,1-Dichloroethane	51	ug/L	1	8260B	08/18/11 20:20	WAT	75-34-3	1
cis-1,2-Dichloroethene	60	ug/L	1	8260B	08/18/11 20:20	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	8260B	08/18/11 20:20	WAT	109-99-9	1
Chloroform	53	ug/L	1	8260B	08/18/11 20:20	WAT	67-66-3	1
Bromochloromethane	53	ug/L	1	8260B	08/18/11 20:20	WAT	74-97-5	1
1,1,1-Trichloroethane	53	ug/L	1	8260B	08/18/11 20:20	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	51	ug/L	50	8260B	08/18/11 20:20	WAT	108-10-1	1
2-Hexanone	Not detected	ug/L	50	8260B	08/18/11 20:20	WAT	591-78-6	1
Carbon tetrachloride	53	ug/L	1	8260B	08/18/11 20:20	WAT	56-23-5	1
Benzene	51	ug/L	1	8260B	08/18/11 20:20	WAT	71-43-2	1
1,2-Dichloroethane	52	ug/L	1	8260B	08/18/11 20:20	WAT	107-06-2	1
Trichloroethene	53	ug/L	1	8260B	08/18/11 20:20	WAT	79-01-6	1
1,2-Dichloropropane	53	ug/L	1	8260B	08/18/11 20:20	WAT	78-87-5	1
Bromodichloromethane	54	ug/L	1	8260B	08/18/11 20:20	WAT	75-27-4	1
Dibromomethane	53	ug/L	5	8260B	08/18/11 20:20	WAT	74-95-3	1
cis-1,3-Dichloropropene	53	ug/L	1	8260B	08/18/11 20:20	WAT	10061-01-5	1
Toluene	51	ug/L	1	8260B	08/18/11 20:20	WAT	108-88-3	1
trans-1,3-Dichloropropene	54	ug/L	1	8260B	08/18/11 20:20	WAT	10061-02-6	1
1,1,2-Trichloroethane	54	ug/L	1	8260B	08/18/11 20:20	WAT	79-00-5	1
Tetrachloroethene	49	ug/L	1	8260B	08/18/11 20:20	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	47	ug/L	1	8260B	08/18/11 20:20	WAT	110-57-6	1
Dibromochloromethane	52	ug/L	5	8260B	08/18/11 20:20	WAT	124-48-1	1
1,2-Dibromoethane	53	ug/L	1	8260B	08/18/11 20:20	WAT	106-93-4	1
Chlorobenzene	51	ug/L	1	8260B	08/18/11 20:20	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	54	ug/L	1	8260B	08/18/11 20:20	WAT	630-20-6	1
Ethylbenzene	51	ug/L	1	8260B	08/18/11 20:20	WAT	100-41-4	1
p,m-Xylene	101	ug/L	2	8260B	08/18/11 20:20	WAT		1
o-Xylene	52	ug/L	1	8260B	08/18/11 20:20	WAT	95-47-6	1
Styrene	49	ug/L	1	8260B	08/18/11 20:20	WAT	100-42-5	1
Isopropylbenzene	51	ug/L	5	8260B	08/18/11 20:20	WAT	98-82-8	1
Bromoform	53	ug/L	1	8260B	08/18/11 20:20	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	53	ug/L	1	8260B	08/18/11 20:20	WAT	79-34-5	1
1,2,3-Trichloropropane	51	ug/L	1	8260B	08/18/11 20:20	WAT	96-18-4	1
n-Propylbenzene	52	ug/L	1	8260B	08/18/11 20:20	WAT	103-65-1	1
Bromobenzene	54	ug/L	1	8260B	08/18/11 20:20	WAT	108-86-1	1
1,3,5-Trimethylbenzene	52	ug/L	1	8260B	08/18/11 20:20	WAT	108-67-8	1
tert-Butylbenzene	53	ug/L	1	8260B	08/18/11 20:20	WAT	98-06-6	1
1,2,4-Trimethylbenzene	53	ug/L	1	8260B	08/18/11 20:20	WAT	95-63-6	1
sec-Butylbenzene	49	ug/L	1	8260B	08/18/11 20:20	WAT	135-98-8	1
p-Isopropyltoluene	52	ug/L	5	8260B	08/18/11 20:20	WAT	99-87-6	1
1,3-Dichlorobenzene	52	ug/L	1	8260B	08/18/11 20:20	WAT	541-73-1	1
1,4-Dichlorobenzene	51	ug/L	1	8260B	08/18/11 20:20	WAT	106-46-7	1
1,2-Dichlorobenzene	52	ug/L	1	8260B	08/18/11 20:20	WAT	95-50-1	1
1,2,3-Trimethylbenzene	50	ug/L	1	8260B	08/18/11 20:20	WAT	526-73-8	1

1-Sample spiked at 50ug/l

Lab Sample ID: S49691.09 (continued)
Sample Tag: MP009_08152011 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	51	ug/L	1	8260B	08/18/11 20:20	WAT	104-51-8	1
Hexachloroethane	49	ug/L	5	8260B	08/18/11 20:20	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	56	ug/L	5	8260B	08/18/11 20:20	WAT	96-12-8	1
1,2,4-Trichlorobenzene	60	ug/L	5	8260B	08/18/11 20:20	WAT	120-82-1	1
1,2,3-Trichlorobenzene	64	ug/L	5	8260B	08/18/11 20:20	WAT	87-61-6	1
Naphthalene	63	ug/L	5	8260B	08/18/11 20:20	WAT	91-20-3	1
2-Methylnaphthalene	73	ug/L	5	8260B	08/18/11 20:20	WAT	91-57-6	1

1-Sample spiked at 50ug/l

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49691.10
Sample Tag: MP010_08152011
Collected Date/Time: 08/15/2011 12:10
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR
1	125ml Plastic	NaOH	Yes	4.7	IR
1	250ml Plastic	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	08/16/11 01:00	SLR		
Inorganics								
Cyanide	0.009	mg/L	0.005	335.4/4500-CN-E	08/19/11 13:58	JDP	57-12-5	
Total Suspended Solids	3	mg/L	1	2540 D	08/16/11 15:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	08/16/11 16:20	SLS	7440-36-0	
Arsenic	0.003	mg/L	0.002	200.8	08/16/11 16:20	SLS	7440-38-2	
Barium	0.110	mg/L	0.005	200.8	08/16/11 16:20	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	08/16/11 16:20	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	08/16/11 16:20	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	08/16/11 16:20	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	08/16/11 16:20	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	08/16/11 16:20	SLS	7440-50-8	
Lead	0.004	mg/L	0.003	200.8	08/16/11 16:20	SLS	7439-92-1	
Manganese	0.337	mg/L	0.005	200.8	08/16/11 16:20	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	08/16/11 16:20	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	08/16/11 16:20	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	08/16/11 16:20	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	08/16/11 16:20	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	08/16/11 16:20	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	08/16/11 16:20	SLS	7440-62-2	
Zinc	0.019	mg/L	0.005	200.8	08/17/11 18:39	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	08/18/11 16:43	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	08/18/11 16:43	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	08/18/11 16:43	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	08/18/11 16:43	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	08/18/11 16:43	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	08/18/11 16:43	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	08/18/11 16:43	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	08/18/11 16:43	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	08/18/11 16:43	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	08/18/11 16:43	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	75-69-4	

Lab Sample ID: S49691.10 (continued)
Sample Tag: MP010_08152011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	08/18/11 16:43	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	75-34-3	
cis-1,2-Dichloroethene	2	ug/L	1	8260B	08/18/11 16:43	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	08/18/11 16:43	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	08/18/11 16:43	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	08/18/11 16:43	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	08/18/11 16:43	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	08/18/11 16:43	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	08/18/11 16:43	WAT		
o-Xylene	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	08/18/11 16:43	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	08/18/11 16:43	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	08/18/11 16:43	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	08/18/11 16:43	WAT	67-72-1	

Lab Sample ID: S49691.10 (continued)
Sample Tag: MP010_08152011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	08/18/11 16:43	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	08/18/11 16:43	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	08/18/11 16:43	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	08/18/11 16:43	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	08/18/11 16:43	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49691.11
Sample Tag: MP013_08152011
Collected Date/Time: 08/15/2011 11:45
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.7	IR
1	125ml Plastic	NaOH	Yes	4.7	IR
1	250ml Plastic	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	08/16/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	08/19/11 14:02	JDP	57-12-5	
Total Suspended Solids	1	mg/L	1	2540 D	08/16/11 15:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	08/16/11 16:24	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	08/16/11 16:24	SLS	7440-38-2	
Barium	0.084	mg/L	0.005	200.8	08/16/11 16:24	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	08/16/11 16:24	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	08/16/11 16:24	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	08/16/11 16:24	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	08/16/11 16:24	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	08/16/11 16:24	SLS	7440-50-8	
Lead	0.005	mg/L	0.003	200.8	08/16/11 16:24	SLS	7439-92-1	
Manganese	0.040	mg/L	0.005	200.8	08/16/11 16:24	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	08/16/11 16:24	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	08/16/11 16:24	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	08/16/11 16:24	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	08/16/11 16:24	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	08/16/11 16:24	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	08/16/11 16:24	SLS	7440-62-2	
Zinc	0.006	mg/L	0.005	200.8	08/17/11 18:40	PER	7440-66-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49691.12
Sample Tag: DUP001_08152011
Collected Date/Time: 08/15/2011 00:01
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR
1	125ml Plastic	NaOH	Yes	4.7	IR
1	250ml Plastic	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	08/16/11 01:00	SLR		
Inorganics								
Cyanide	0.007	mg/L	0.005	335.4/4500-CN-E	08/19/11 14:04	JDP	57-12-5	
Total Suspended Solids	12	mg/L	1	2540 D	08/16/11 15:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	08/16/11 16:29	SLS	7440-36-0	
Arsenic	0.010	mg/L	0.002	200.8	08/16/11 16:29	SLS	7440-38-2	
Barium	0.298	mg/L	0.005	200.8	08/16/11 16:29	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	08/16/11 16:29	SLS	7440-41-7	
Cadmium	0.0007	mg/L	0.0005	200.8	08/16/11 16:29	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	08/16/11 16:29	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	08/16/11 16:29	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	08/16/11 16:29	SLS	7440-50-8	
Lead	0.013	mg/L	0.003	200.8	08/16/11 16:29	SLS	7439-92-1	
Manganese	0.527	mg/L	0.005	200.8	08/16/11 16:29	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	08/16/11 16:29	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	08/16/11 16:29	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	08/16/11 16:29	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	08/16/11 16:29	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	08/16/11 16:29	SLS	7440-32-6	
Vanadium	0.007	mg/L	0.004	200.8	08/16/11 16:29	SLS	7440-62-2	
Zinc	0.008	mg/L	0.005	200.8	08/17/11 18:41	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	08/18/11 17:01	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	08/18/11 17:01	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	08/18/11 17:01	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	08/18/11 17:01	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	08/18/11 17:01	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	08/18/11 17:01	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	08/18/11 17:01	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	08/18/11 17:01	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	08/18/11 17:01	WAT	74-83-9	
Chloroethane	11	ug/L	5	8260B	08/18/11 17:01	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	75-69-4	

Lab Sample ID: S49691.12 (continued)
Sample Tag: DUP001_08152011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	2	ug/L	1	8260B	08/18/11 17:01	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	08/18/11 17:01	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	156-60-5	
1,1-Dichloroethane	14	ug/L	1	8260B	08/18/11 17:01	WAT	75-34-3	
cis-1,2-Dichloroethene	7	ug/L	1	8260B	08/18/11 17:01	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	08/18/11 17:01	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	74-97-5	
1,1,1-Trichloroethane	29	ug/L	1	8260B	08/18/11 17:01	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	08/18/11 17:01	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	08/18/11 17:01	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	107-06-2	
Trichloroethene	2	ug/L	1	8260B	08/18/11 17:01	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	08/18/11 17:01	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	08/18/11 17:01	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	08/18/11 17:01	WAT		
o-Xylene	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	08/18/11 17:01	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	08/18/11 17:01	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	08/18/11 17:01	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	08/18/11 17:01	WAT	67-72-1	

Lab Sample ID: S49691.12 (continued)
Sample Tag: DUP001_08152011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	08/18/11 17:01	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	08/18/11 17:01	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	08/18/11 17:01	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	08/18/11 17:01	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	08/18/11 17:01	WAT	91-57-6	

Lab Sample ID: S49691.13
Sample Tag: Field_Blank_08152011
Collected Date/Time: 08/15/2011 12:00
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR
1	125ml Plastic	NaOH	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	08/16/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	08/19/11 14:06	JDP	57-12-5	
Metals								
Antimony	Not detected	mg/L	0.005	200.8	08/16/11 17:05	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	08/16/11 17:05	SLS	7440-38-2	
Barium	Not detected	mg/L	0.005	200.8	08/16/11 17:05	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	08/16/11 17:05	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	08/16/11 17:05	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	08/16/11 17:05	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	08/16/11 17:05	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	08/16/11 17:05	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	08/16/11 17:05	SLS	7439-92-1	
Manganese	Not detected	mg/L	0.005	200.8	08/16/11 17:05	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	08/16/11 17:05	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	08/16/11 17:05	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	08/16/11 17:05	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	08/16/11 17:05	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	08/16/11 17:05	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	08/16/11 17:05	SLS	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	08/17/11 18:42	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	08/18/11 17:19	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	08/18/11 17:19	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	08/18/11 17:19	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	08/18/11 17:19	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	08/18/11 17:19	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	08/18/11 17:19	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	08/18/11 17:19	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	08/18/11 17:19	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	08/18/11 17:19	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	08/18/11 17:19	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	08/18/11 17:19	WAT	75-09-2	

Lab Sample ID: S49691.13 (continued)
Sample Tag: Field_Blank_08152011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	08/18/11 17:19	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	08/18/11 17:19	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	08/18/11 17:19	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	08/18/11 17:19	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	08/18/11 17:19	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	08/18/11 17:19	WAT		
o-Xylene	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	08/18/11 17:19	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	08/18/11 17:19	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	08/18/11 17:19	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	08/18/11 17:19	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	08/18/11 17:19	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	08/18/11 17:19	WAT	120-82-1	

Lab Sample ID: S49691.13 (continued)
Sample Tag: Field_Blank_08152011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	08/18/11 17:19	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	08/18/11 17:19	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	08/18/11 17:19	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49691.14
Sample Tag: Trip_Blank_08152011
Collected Date/Time: 08/15/2011 00:01
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	n/a	n/a	Yes	n/a	n/a

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
No Analyses	Completed				08/16/11 11:35	PCS		

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49691.15
Sample Tag: MH-1-7-Outfall001(08152011)
Collected Date/Time: 08/15/2011 09:15
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.7	IR
1	125ml Plastic	NaOH	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	08/16/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	08/19/11 14:08	JDP	57-12-5	
Metals								
Antimony	Not detected	mg/L	0.005	200.8	08/16/11 17:09	SLS	7440-36-0	
Arsenic	0.002	mg/L	0.002	200.8	08/16/11 17:09	SLS	7440-38-2	
Barium	0.093	mg/L	0.005	200.8	08/16/11 17:09	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	08/16/11 17:09	SLS	7440-41-7	
Cadmium	0.0008	mg/L	0.0005	200.8	08/16/11 17:09	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	08/16/11 17:09	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	08/16/11 17:09	SLS	7440-48-4	
Copper	0.008	mg/L	0.004	200.8	08/16/11 17:09	SLS	7440-50-8	
Lead	0.025	mg/L	0.003	200.8	08/16/11 17:09	SLS	7439-92-1	
Manganese	0.225	mg/L	0.005	200.8	08/16/11 17:09	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	08/16/11 17:09	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	08/16/11 17:09	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	08/16/11 17:09	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	08/16/11 17:09	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	08/16/11 17:09	SLS	7440-32-6	
Vanadium	0.004	mg/L	0.004	200.8	08/16/11 17:09	SLS	7440-62-2	
Zinc	0.070	mg/L	0.005	200.8	08/17/11 18:44	PER	7440-66-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49691.16
Sample Tag: MH-3-31-Outfall003(08152011)
Collected Date/Time: 08/15/2011 09:35
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.7	IR
1	125ml Plastic	NaOH	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	08/16/11 01:00	SLR		
Inorganics								
Cyanide	0.017	mg/L	0.005	335.4/4500-CN-E	08/19/11 14:10	JDP	57-12-5	
Metals								
Antimony	Not detected	mg/L	0.005	200.8	08/16/11 17:14	SLS	7440-36-0	
Arsenic	0.005	mg/L	0.002	200.8	08/16/11 17:14	SLS	7440-38-2	
Barium	0.212	mg/L	0.005	200.8	08/16/11 17:14	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	08/16/11 17:14	SLS	7440-41-7	
Cadmium	0.0012	mg/L	0.0005	200.8	08/16/11 17:14	SLS	7440-43-9	
Chromium	0.026	mg/L	0.005	200.8	08/16/11 17:14	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	08/16/11 17:14	SLS	7440-48-4	
Copper	0.024	mg/L	0.004	200.8	08/16/11 17:14	SLS	7440-50-8	
Lead	0.039	mg/L	0.003	200.8	08/16/11 17:14	SLS	7439-92-1	
Manganese	0.230	mg/L	0.005	200.8	08/16/11 17:14	SLS	7439-96-5	
Nickel	0.007	mg/L	0.005	200.8	08/16/11 17:14	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	08/16/11 17:14	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	08/16/11 17:14	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	08/16/11 17:14	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	08/16/11 17:14	SLS	7440-32-6	
Vanadium	0.009	mg/L	0.004	200.8	08/16/11 17:14	SLS	7440-62-2	
Zinc	0.070	mg/L	0.005	200.8	08/17/11 18:45	PER	7440-66-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49691.17
Sample Tag: MH-3-51-Outfall003(08152011)
Collected Date/Time: 08/15/2011 12:05
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.7	IR
1	125ml Plastic	NaOH	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	08/16/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	08/19/11 14:12	JDP	57-12-5	
Metals								
Antimony	Not detected	mg/L	0.005	200.8	08/16/11 17:19	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	08/16/11 17:19	SLS	7440-38-2	
Barium	0.026	mg/L	0.005	200.8	08/16/11 17:19	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	08/16/11 17:19	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	08/16/11 17:19	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	08/16/11 17:19	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	08/16/11 17:19	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	08/16/11 17:19	SLS	7440-50-8	
Lead	0.010	mg/L	0.003	200.8	08/16/11 17:19	SLS	7439-92-1	
Manganese	Not detected	mg/L	0.005	200.8	08/16/11 17:19	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	08/16/11 17:19	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	08/16/11 17:19	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	08/16/11 17:19	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	08/16/11 17:19	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	08/16/11 17:19	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	08/16/11 17:19	SLS	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	08/17/11 18:46	PER	7440-66-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49691.18
Sample Tag: MH-4-21-Outfall004(08152011)
Collected Date/Time: 08/15/2011 11:00
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.7	IR
1	125ml Plastic	NaOH	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	08/16/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	08/19/11 14:14	JDP	57-12-5	
Metals								
Antimony	Not detected	mg/L	0.005	200.8	08/16/11 17:24	SLS	7440-36-0	
Arsenic	0.020	mg/L	0.002	200.8	08/16/11 17:24	SLS	7440-38-2	
Barium	0.177	mg/L	0.005	200.8	08/16/11 17:24	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	08/16/11 17:24	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	08/16/11 17:24	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	08/16/11 17:24	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	08/16/11 17:24	SLS	7440-48-4	
Copper	0.063	mg/L	0.004	200.8	08/16/11 17:24	SLS	7440-50-8	
Lead	0.035	mg/L	0.003	200.8	08/16/11 17:24	SLS	7439-92-1	
Manganese	2.53	mg/L	0.005	200.8	08/16/11 17:24	SLS	7439-96-5	
Nickel	0.019	mg/L	0.005	200.8	08/16/11 17:24	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	08/16/11 17:24	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	08/16/11 17:24	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	08/16/11 17:24	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	08/16/11 17:24	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	08/16/11 17:24	SLS	7440-62-2	
Zinc	0.078	mg/L	0.005	200.8	08/17/11 18:47	PER	7440-66-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49691.19
Sample Tag: MH-13-14-Outfall(08152011)
Collected Date/Time: 08/15/2011 11:40
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.7	IR
1	125ml Plastic	NaOH	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	08/16/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	08/19/11 14:16	JDP	57-12-5	
Metals								
Antimony	Not detected	mg/L	0.005	200.8	08/16/11 17:38	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	08/16/11 17:38	SLS	7440-38-2	
Barium	0.043	mg/L	0.005	200.8	08/16/11 17:38	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	08/16/11 17:38	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	08/16/11 17:38	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	08/16/11 17:38	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	08/16/11 17:38	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	08/16/11 17:38	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	08/16/11 17:38	SLS	7439-92-1	
Manganese	0.071	mg/L	0.005	200.8	08/16/11 17:38	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	08/16/11 17:38	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	08/16/11 17:38	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	08/16/11 17:38	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	08/16/11 17:38	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	08/16/11 17:38	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	08/16/11 17:38	SLS	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	08/17/11 18:49	PER	7440-66-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S49691.20
Sample Tag: Equip_Blank_08152011
Collected Date/Time: 08/15/2011 12:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.7	IR
1	125ml Plastic	HNO3	Yes	4.7	IR
1	125ml Plastic	NaOH	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	08/16/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	08/19/11 14:18	JDP	57-12-5	
Metals								
Antimony	Not detected	mg/L	0.005	200.8	08/16/11 17:28	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	08/16/11 17:28	SLS	7440-38-2	
Barium	Not detected	mg/L	0.005	200.8	08/16/11 17:28	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	08/16/11 17:28	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	08/16/11 17:28	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	08/16/11 17:28	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	08/16/11 17:28	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	08/16/11 17:28	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	08/16/11 17:28	SLS	7439-92-1	
Manganese	Not detected	mg/L	0.005	200.8	08/16/11 17:28	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	08/16/11 17:28	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	08/16/11 17:28	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	08/16/11 17:28	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	08/16/11 17:28	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	08/16/11 17:28	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	08/16/11 17:28	SLS	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	08/17/11 18:22	PER	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	08/18/11 17:38	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	08/18/11 17:38	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	08/18/11 17:38	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	08/18/11 17:38	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	08/18/11 17:38	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	08/18/11 17:38	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	08/18/11 17:38	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	08/18/11 17:38	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	08/18/11 17:38	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	08/18/11 17:38	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	08/18/11 17:38	WAT	75-09-2	

Lab Sample ID: S49691.20 (continued)
Sample Tag: Equip_Blank_08152011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	08/18/11 17:38	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	08/18/11 17:38	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	08/18/11 17:38	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	08/18/11 17:38	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	08/18/11 17:38	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	08/18/11 17:38	WAT		
o-Xylene	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	08/18/11 17:38	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	08/18/11 17:38	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	08/18/11 17:38	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	08/18/11 17:38	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	08/18/11 17:38	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	08/18/11 17:38	WAT	120-82-1	

Lab Sample ID: S49691.20 (continued)
Sample Tag: Equip_Blank_08152011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	08/18/11 17:38	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	08/18/11 17:38	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	08/18/11 17:38	WAT	91-57-6	

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 1 OF 2

*Please also send a copy of invoicing to Micki Maki (ARCADIS)

REPORT TO

CONTACT NAME: Mike Brennan / Micki Maki / Tony Maffeo
COMPANY: ARCADIS
ADDRESS: 10559 Citation Dr., Suite 100
CITY: Brighton | STATE: Mi | ZIP CODE: 48116
PHONE NO.: | FAX NO.: | P.O. NO.:
E-MAIL ADDRESS: See Contract For Details

INVOICE TO

CONTACT NAME: Ms. Monica Wallingford | ☐ SAME
COMPANY: RACER Trust
ADDRESS: 2930 Ecorse Road
CITY: Ypsilanti | STATE: MI | ZIP CODE: 48198
PHONE NO.: 313.486.2928 | FAX NO.: - | P.O. NO.: MLT-1295

PROJECT NO./NAME: B0064410.2011.00801
SAMPLER(S) - PLEASE PRINT/SIGN NAME: DLN / AO. AMM/MR
TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER
DELIVERABLES REQUIRED: ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☒ OTHER EDD

MATRIX CODE: GW=GROUNDWATER, SL=SLUDGE, WW=WASTEWATER, O=OIL, S=SOIL, A=AIR, L=LIQUID, W=WASTE, SD=SOLID, M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

SPECIAL INSTRUCTIONS/NOTES: * Metals include: Ag, As, Ba, Be, Cd, Cr (total), Co, Cu, Mn, Ni, Pb, Sb, Ti, Se, V, and Zn.

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOC	Metals*	Cyanide	TSS							SPECIAL INSTRUCTIONS/NOTES
49691.01	08/15/11	09:00	MP001_08152011	L	5	1	2	1		1			✔	✔	✔	✔							
.02	08/15/11	09:15	MP002_08152011	L	5	1	2	1		1			✔	✔	✔	✔							
.03	08/15/11	09:45	MP003_08152011	L	5	1	2	1		1			✔	✔	✔	✔							
.04	08/15/11	10:02	MP005_08152011	L	3	1		1		1				✔	✔	✔							
.05	08/15/11	11:05	MP006_08152011	L	5	1	2	1		1			✔	✔	✔	✔							
.06	08/15/11	11:20	MP007_08152011	L	5	1	2	1		1			✔	✔	✔	✔							
.07/.08	08/15/11	10:40	MP009_08152011	L	5	1	2	1		1			✔	✔	✔	✔							MS/MSD
.10 ~~.09~~	08/15/11	12:10	MP010_08152011	L	5	1	2	1		1			✔	✔	✔	✔							
	~~08/15/11~~		~~MP011_08152011~~	~~L~~	~~5~~	~~1~~	~~2~~	~~1~~		~~1~~			~~✔~~	~~✔~~	~~✔~~								No SAMPLE DLN
.11 ~~.10~~	08/15/11	11:45	MP013_08152011	L	3	1		1		1				✔	✔	✔							
.12 ~~.10~~	08/15/11		Dup001_08152011	L	5	1	2	1		1			✔	✔	✔	✔							
.13	08/15/11	12:00	Field_Blank_08152011	L	4		2	1		1			✔	✔									

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
	8/15/11	1330		8-15-11	1435
RECEIVED BY: SIGNATURE/ORGANIZATION	8-15-11	1330	RECEIVED BY: SIGNATURE/ORGANIZATION	8-15-11	1435
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO. / SEAL INTACT YES ☐ NO ☐ / INITIALS	NOTES: TEMP. ON ARRIVAL 4.7	
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO. / SEAL INTACT YES ☐ NO ☐ / INITIALS		

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Merit Laboratories, Inc.

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C.O.C. PAGE # 2 OF 2

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REPORT TO

CONTACT NAME: Mike Brennan / Micki Maki / Tony Maffeo
COMPANY: ARCADIS
ADDRESS: 10559 Citation Dr., Suite 100
CITY: Brighton STATE: Mi ZIP CODE: 48116
PHONE NO.: FAX NO.: P.O. NO.:
See Contract For Details
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: Ms. Monica Wallingford ☐ SAME
COMPANY: RACER Trust
ADDRESS: 2930 Ecorse Road
CITY: Ypsilanti STATE: MI ZIP CODE: 48198
PHONE NO.: 313.486.2928 FAX NO.: - P.O. NO.: MLT-1295

PROJECT NO./NAME: B0064410.2011.00801
SAMPLER(S) - PLEASE PRINT/SIGN NAME: DLN / AO, AMM/MR
TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER
DELIVERABLES REQUIRED: ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☒ OTHER EDD

MATRIX CODE: GW=GROUNDWATER SL=SLUDGE WW=WASTEWATER O=OIL S=SOIL A=AIR L=LIQUID W=WASTE SD=SOLID M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

SPECIAL INSTRUCTIONS/NOTES: * Metals include: Ag, As, Ba, Be, Cd, Cr (total), Co, Cu, Mn, Ni, Pb, Sb, Ti, Se, V, and Zn.

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOC	Cyanide	Metals*								SPECIAL INSTRUCTIONS/NOTES
49691.14			Trip_Blank_08152011	L	2		2						✔										Lab Filled
.15	08/15/11	09:15	MH-1-7-Outfall001(08152011)	L	2			1		1				✔	✔								
.16	08/15/11	09:35	MH-3-31-Outfall003(08152011)	L	2			1		1				✔	✔								
	~~08/15/11~~		~~MH-3-28-Outfall003(08152011)~~	~~L~~	~~2~~			~~1~~		~~1~~				~~✔~~	~~✔~~								No SAMPLE
	~~08/15/11~~		~~MH-3-25-3-Outfall003(08152011)~~	~~L~~	~~2~~			~~1~~		~~1~~				~~✔~~	~~✔~~								No SAMPLE DLN
.17	08/15/11	12:05	MH-3-51-Outfall003(08152011)	L	2			1		1				✔	✔								
.18	08/15/11	11:00	MH-4-21-Outfall004(08152011)	L	2			1		1				✔	✔								
.19	08/15/11	11:40	MH-13-14-Outfall(08152011)	L	2			1		1				✔	✔								
.20	08/15/11	12:30	Equip_Blank_08152011	L	4		2	1		1			✔	✔	✔								

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE 8/15/11	TIME 1330	RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE 8-15-11	TIME 1435
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE 8-15-11	TIME 1335	RECEIVED BY: SIGNATURE/ORGANIZATION	DATE 8-15-11	TIME 1435
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO. / SEAL INTACT YES ☐ NO ☐ / INITIALS	NOTES: TEMP. ON ARRIVAL 4.7	
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO. / SEAL INTACT YES ☐ NO ☐ / INITIALS		

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Analytical Laboratory Report

Report ID: S49702.01(01)
Generated on 08/19/2011

Report to

Attention: Mike Brennan/ Liz Marsh/Amy C
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S49702.01
Project: B0064410.2011.00801
Collected Date: 08/16/2011
Submitted Date/Time: 08/16/2011 13:30
Sampled by: Dustin Swarthout
P.O. #: MLT1295

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (1 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S49702.01	Outfall 003A (081611)	Liquid	08/16/2011 10:00

Analytical Laboratory Report

Lab Sample ID: S49702.01
Sample Tag: Outfall 003A (081611)
Collected Date/Time: 08/16/2011 10:00
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	08/18/11 23:43	EMR		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	08/19/11 12:59	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	08/19/11 12:59	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	08/19/11 12:59	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	08/19/11 12:59	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	08/19/11 12:59	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	08/19/11 12:59	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	08/19/11 12:59	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	08/19/11 12:59	JANB	1336-36-3	

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REPORT TO

CONTACT NAME: Mike Brennan / Amy Conover / Liz Marsh / Tony Maffeo / Micki Maki
COMPANY: ARCADIS
ADDRESS: 10559 Citation Dr., Suite 100
CITY: Brighton STATE: Mi ZIP CODE: 48116
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: See Contract For Details

INVOICE TO

CONTACT NAME: Ms. Monica Wallingford ☐ SAME
COMPANY: RACER Trust
ADDRESS: 2930 Ecorse Road
CITY: Ypsilanti STATE: MI ZIP CODE: 48198
PHONE NO.: 313.486.2928 FAX NO.: - P.O. NO.: MLT1295

PROJECT NO./NAME: B0064410.2011.00801
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Dustin Swarthout

TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☒ OTHER EDD

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED): PCB

SPECIAL INSTRUCTIONS/NOTES: 003A composite weekly sample doubling as NPMP monthly sample

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB	SPECIAL INSTRUCTIONS/NOTES
49702.01	08/16/11	10:00	Outfall003A(081611)	L	2	2							✓	sampler ran from 8/15 0900 to 8/16/11 0900

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
Cory Ziegler / ARCADIS	8/16/11	1000
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME
[signature]	8-16-11	1000
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
[signature]	8-16-11	1330
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME
[signature]	8-16-11	1330

SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS

NOTES: TEMP. ON ARRIVAL 5.0

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Analytical Laboratory Report

Report ID: S49742.01(01)
Generated on 08/19/2011

Report to

Attention: Mike Brennan/Micki Macki/Tony M.
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S49742.01-S49742.03
Project: B0064410.2011.00801
Collected Date: 08/17/2011 - 08/18/2011
Submitted Date/Time: 08/18/2011 14:30
Sampled by: DLN
P.O. #: B0064410.2011.0

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
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Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (3 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S49742.01	Outfall005_08182011	Liquid	08/18/2011 10:10
S49742.02	ISCO_Blank_08182011	Liquid	08/18/2011 10:30
S49742.03	ISCO_Blank_08172011	Liquid	08/17/2011 09:30

Analytical Laboratory Report

Lab Sample ID: S49742.01
Sample Tag: Outfall005_08182011
Collected Date/Time: 08/18/2011 10:10
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	08/18/11 23:43	EMR		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	08/19/11 12:07	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	08/19/11 12:07	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	08/19/11 12:07	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	08/19/11 12:07	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	08/19/11 12:07	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	08/19/11 12:07	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	08/19/11 12:07	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	08/19/11 12:07	JANB	1336-36-3	

Analytical Laboratory Report

Lab Sample ID: S49742.02
Sample Tag: ISCO_Blank_08182011
Collected Date/Time: 08/18/2011 10:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	08/18/11 23:43	EMR		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	08/19/11 12:17	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	08/19/11 12:17	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	08/19/11 12:17	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	08/19/11 12:17	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	08/19/11 12:17	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	08/19/11 12:17	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	08/19/11 12:17	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	08/19/11 12:17	JANB	1336-36-3	

Analytical Laboratory Report

Lab Sample ID: S49742.03
Sample Tag: ISCO_Blank_08172011
Collected Date/Time: 08/17/2011 09:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	5.3	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	08/18/11 23:43	EMR		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	08/19/11 12:28	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	08/19/11 12:28	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	08/19/11 12:28	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	08/19/11 12:28	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	08/19/11 12:28	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	08/19/11 12:28	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	08/19/11 12:28	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	08/19/11 12:28	JANB	1336-36-3	

Merit Laboratories, Inc.

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CITY: Ypsilanti STATE: MI ZIP CODE: 48198
PHONE NO.: 313.486.2928 FAX NO.: - P.O. NO.: MLT1295

PROJECT NO./NAME: B0064410.2011.00801
SAMPLER(S) - PLEASE PRINT/SIGN NAME: DLN
TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER
DELIVERABLES REQUIRED: ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☒ OTHER EDD

MATRIX CODE: GW=GROUNDWATER, WW=WASTEWATER, S=SOIL, L=LIQUID, SD=SOLID, SL=SLUDGE, O=OIL, A=AIR, W=WASTE, M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED): PCB

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB	SPECIAL INSTRUCTIONS/NOTES
49742.01	08/18/11	10:10	Outfall005_08182011	L	1	1							✓	sampler ran from 8/17 1000
.02	08/18/11	10:30	ISCO_Blank_08182011	L	1	1							✓	to 8/18 1000
.03	08/17/11	09:30	ISCO_Blank_08172011	L	1	1							✓	

NPMP Monthly Composite Sample

1 BOTTLE PER SAMPLE

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 8/18/11	TIME 1230
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 8/18/11	TIME 1230
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 8/18/11	TIME 1430
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 8-18-11	TIME 1430
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL 5.3
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Analytical Laboratory Report

Report ID: S49690.01(01)
Generated on 09/06/2011

Report to

Attention: Mike Brennan/Micki Macki/Tony M.
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S49690.01-S49690.17
Project: B0064410.2011.00801
Collected Date: 08/15/2011
Submitted Date/Time: 08/15/2011 14:35
Sampled by: DLN, AO, AMM, MR
P.O. #: B0064410.2011.0

Report Notes

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Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (17 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S49690.01	MP001_08152011	Liquid	08/15/2011 09:00
S49690.02	MP002_08152011	Liquid	08/15/2011 09:30
S49690.03	MP003_08152011	Liquid	08/15/2011 09:45
S49690.04	MP005_08152011	Liquid	08/15/2011 10:02
S49690.05	MP006_08152011	Liquid	08/15/2011 11:05
S49690.06	MP007_08152011	Liquid	08/15/2011 11:20
S49690.07	MP009_08152011	Liquid	08/15/2011 10:40
S49690.08	MP010_08152011	Liquid	08/15/2011 12:10
S49690.09	MP013_08152011	Liquid	08/15/2011 11:45
S49690.10	Equip_Blank_08152011	Liquid	08/15/2011 12:30
S49690.11	Trip_Blank_08152011	Liquid	08/15/2011 00:01
S49690.12	Field_Blank_08152011	Liquid	08/15/2011 12:00
S49690.13	MH-1-7-Outfall003(08152011)	Liquid	08/15/2011 09:15
S49690.14	MH-3-51-Outfall003(08152011)	Liquid	08/15/2011 12:05
S49690.15	MH-4-21-Outfall004(08152011)	Liquid	08/15/2011 11:00
S49690.16	MH-13-14-Outfall0013(08152011)	Liquid	08/15/2011 11:40
S49690.17	MH-3-31-Outfall001(08152011)	Liquid	08/15/2011 09:35

Analytical Laboratory Report

Lab Sample ID: S49690.01
Sample Tag: MP001_08152011
Collected Date/Time: 08/15/2011 09:00
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	1.4	ng/L	0.51	1631E	08/23/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49690.02
Sample Tag: MP002_08152011
Collected Date/Time: 08/15/2011 09:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	2.3	ng/L	0.51	1631E	08/23/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49690.03
Sample Tag: MP003_08152011
Collected Date/Time: 08/15/2011 09:45
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	3.3	ng/L	0.51	1631E	08/23/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49690.04
Sample Tag: MP005_08152011
Collected Date/Time: 08/15/2011 10:02
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	2.9	ng/L	0.51	1631E	08/23/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49690.05
Sample Tag: MP006_08152011
Collected Date/Time: 08/15/2011 11:05
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	2.3	ng/L	0.51	1631E	08/23/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49690.06
Sample Tag: MP007_08152011
Collected Date/Time: 08/15/2011 11:20
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	42	ng/L	5.1	1631E	08/23/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49690.07
Sample Tag: MP009_08152011
Collected Date/Time: 08/15/2011 10:40
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	3.0	ng/L	0.51	1631E	08/23/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49690.08
Sample Tag: MP010_08152011
Collected Date/Time: 08/15/2011 12:10
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	600	ng/L	81	1631E	08/23/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49690.09
Sample Tag: MP013_08152011
Collected Date/Time: 08/15/2011 11:45
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	1.6	ng/L	0.51	1631E	08/23/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49690.10
Sample Tag: Equip_Blank_08152011
Collected Date/Time: 08/15/2011 12:30
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	20	ng/L	5.1	1631E	08/23/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49690.11
Sample Tag: Trip_Blank_08152011
Collected Date/Time: 08/15/2011 00:01
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	Not detected	ng/L	0.51	1631E	08/23/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49690.12
Sample Tag: Field_Blank_08152011
Collected Date/Time: 08/15/2011 12:00
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	21	ng/L	5.1	1631E	08/23/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49690.13
Sample Tag: MH-1-7-Outfall003(08152011)
Collected Date/Time: 08/15/2011 09:15
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	3.6	ng/L	0.52	1631E	08/23/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49690.14
Sample Tag: MH-3-51-Outfall003(08152011)
Collected Date/Time: 08/15/2011 12:05
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	1.5	ng/L	0.51	1631E	08/23/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49690.15
Sample Tag: MH-4-21-Outfall004(08152011)
Collected Date/Time: 08/15/2011 11:00
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	42	ng/L	5.1	1631E	08/23/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49690.16
Sample Tag: MH-13-14-Outfall0013(08152011)
Collected Date/Time: 08/15/2011 11:40
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	1.5	ng/L	0.51	1631E	08/23/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S49690.17
Sample Tag: MH-3-31-Outfall001(08152011)
Collected Date/Time: 08/15/2011 09:35
Matrix: Liquid
COC Reference:

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	11	ng/L	5.1	1631E	08/23/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Fibertec
environmental
services

Tuesday, August 23, 2011

Fibertec Project Number:	45867
Project Identification:	49690 /
Submittal Date:	08/15/2011

Ms. Paula Shaw
Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Dear Ms. Shaw,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note samples will be disposed of 30 days after reporting date.

Samples were received at 22.5 degrees Celcius.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures

1914 Holloway Drive	*Holt, MI 48842*	*T: (517) 699-0345*	*F: (517) 699-0388*
11766 E. Grand River	*Brighton, MI 48116*	*T: (810) 220-3300*	*F: (810) 220-3311*
8660 S. Mackinaw Trail	*Cadillac, MI 49601*	*T: (231) 775-8368*	*F: (231) 775-8584*

lab@fibertec.us

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49690.01**	Chain of Custody:	**62024**
Client Project Name:	**49690**	Sample No:	**1**	Collect Date:	**08/15/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45867-001** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**1.4**		ng/L	0.51	1.0	08/23/11	PM11H23A	08/23/11	M511H23A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49690.02**	Chain of Custody:	**62024**
Client Project Name:	**49690**	Sample No:	**2**	Collect Date:	**08/15/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:30**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45867-002** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**2.3**		ng/L	0.51	1.0	08/23/11	PM11H23A	08/23/11	M511H23A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49690.03**	Chain of Custody:	**62024**
Client Project Name:	**49690**	Sample No:	**3**	Collect Date:	**08/15/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:45**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45867-003** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**3.3**		ng/L	0.51	1.0	08/23/11	PM11H23A	08/23/11	M511H23A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49690.04**	Chain of Custody:	**62024**
Client Project Name:	**49690**	Sample No:	**4**	Collect Date:	**08/15/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**10:02**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45867-004** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**2.9**		ng/L	0.51	1.0	08/23/11	PM11H23A	08/23/11	M511H23A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49690.05**	Chain of Custody:	**62024**
Client Project Name:	**49690**	Sample No:	**5**	Collect Date:	**08/15/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**11:05**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45867-005** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**2.3**		ng/L	0.51	1.0	08/23/11	PM11H23A	08/23/11	M511H23A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49690.06**	Chain of Custody:	**62024**
Client Project Name:	**49690**	Sample No:	**6**	Collect Date:	**08/15/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**11:20**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45867-006** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**42**		ng/L	5.1	10	08/23/11	PM11H23A	08/23/11	M511H23A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49690.07**	Chain of Custody:	**62024**
Client Project Name:	**49690**	Sample No:	**7**	Collect Date:	**08/15/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**10:40**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45867-007** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**3.0**		ng/L	0.51	1.0	08/23/11	PM11H23A	08/23/11	M511H23A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49690.08**	Chain of Custody:	**62024**
Client Project Name:	**49690**	Sample No:	**8**	Collect Date:	**08/15/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**12:10**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45867-008** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**600**		ng/L	81	160	08/23/11	PM11H23A	08/23/11	M511H23A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49690.09**	Chain of Custody:	**62024**
Client Project Name:	**49690**	Sample No:	**9**	Collect Date:	**08/15/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**11:45**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45867-009** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**1.6**		ng/L	0.51	1.0	08/23/11	PM11H23A	08/23/11	M511H23A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49690.10**	Chain of Custody:	**62024**
Client Project Name:	**49690**	Sample No:	**10**	Collect Date:	**08/15/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**12:30**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45867-010** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**20**		ng/L	5.1	10	08/23/11	PM11H23A	08/23/11	M511H23A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49690.11**	Chain of Custody:	**62024**
Client Project Name:	**49690**	Sample No:	**11**	Collect Date:	**08/15/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45867-011** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	U		ng/L	0.51	1.0	08/23/11	PM11H23A	08/23/11	M511H23A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49690.12**	Chain of Custody:	**62024**
Client Project Name:	**49690**	Sample No:	**12**	Collect Date:	**08/15/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**12:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45867-012** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**21**		ng/L	5.1	10	08/23/11	PM11H23A	08/23/11	M511H23A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49690.13**	Chain of Custody:	**62025**
Client Project Name:	**49690**	Sample No:	**13**	Collect Date:	**08/15/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:15**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45867-013** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**3.6**		ng/L	0.52	1.0	08/23/11	PM11H23A	08/23/11	M511H23A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49690.14**	Chain of Custody:	**62025**
Client Project Name:	**49690**	Sample No:	**14**	Collect Date:	**08/15/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**12:05**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45867-014** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**1.5**		ng/L	0.51	1.0	08/23/11	PM11H23A	08/23/11	M511H23A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49690.15**	Chain of Custody:	**62025**
Client Project Name:	**49690**	Sample No:	**15**	Collect Date:	**08/15/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**11:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45867-015** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**42**		ng/L	5.1	10	08/23/11	PM11H23A	08/23/11	M511H23A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49690.16**	Chain of Custody:	**62025**
Client Project Name:	**49690**	Sample No:	**16**	Collect Date:	**08/15/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**11:40**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45867-016** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**1.5**		ng/L	0.51	1.0	08/23/11	PM11H23A	08/23/11	M511H23A

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**49690.17**	Chain of Custody:	**62025**
Client Project Name:	**49690**	Sample No:	**17**	Collect Date:	**08/15/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 45867-017** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**11**		ng/L	5.1	10	08/23/11	PM11H23A	08/23/11	M511H23A

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QA limits

Exception Summary:

ACCREDITED IN ACCORDANCE WITH nelac

Accreditation Number:

E-10395

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 1 OF 2

*Please also send a copy of invoicing to Micki Maki (ARCADIS)

REPORT TO

CONTACT NAME: Mike Brennan / Micki Maki / Tony Maffeo
COMPANY: ARCADIS
ADDRESS: 10559 Citation Dr., Suite 100
CITY: Brighton STATE: Mi ZIP CODE: 48116
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: See Contract For Details

INVOICE TO

CONTACT NAME: Ms. Monica Wallingford ☐ SAME
COMPANY: RACER Trust
ADDRESS: 2930 Ecorse Road
CITY: Ypsilanti STATE: MI ZIP CODE: 48198
PHONE NO.: 313.486.2928 FAX NO.: - P.O. NO.: MLT-1295

PROJECT NO./NAME: B0064410.2011.00801
SAMPLER(S) - PLEASE PRINT/SIGN NAME: DLN / AO, AMM/MR

TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☒ OTHER EDD

MATRIX CODE: GW=GROUNDWATER, SL=SLUDGE, WW=WASTEWATER, O=OIL, S=SOIL, A=AIR, L=LIQUID, W=WASTE, SD=SOLID, M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED): Low Level Hg

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCL	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	Low Level Hg	SPECIAL INSTRUCTIONS/NOTES
49690.01	08/15/11	09:00	MP001_08152011	L	3	3							✔	
.02	08/15/11	09:30	MP002_08152011	L	3	3							✔	
.03	08/15/11	09:45	MP003_08152011	L	3	3							✔	
.04	08/15/11	10:02	MP005_08152011	L	3	3							✔	
.05	08/15/11	11:05	MP006_08152011	L	3	3							✔	
.06	08/15/11	11:20	MP007_08152011	L	3	3							✔	
.07	08/15/11	10:40	MP009_08152011	L	3	3							✔	
.08	08/15/11	12:10	MP010_08152011	L	3	3							✔	
	~~08/15/11~~		~~MP011_08152011~~	~~L~~	~~3~~	~~3~~							~~✔~~	No SAMPLE TAKEN
.09	08/15/11	11:45	MP013_08152011	L	3	3							✔	
.10	08/15/11	12:30	Equip_Blank_08152011	L	3	3							✔	
.11	08/15/11		Trip_Blank_08152011	L	3	3							✔	Lab Filled

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE 8/15/11	TIME 1330	RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE 8-15-11	TIME 1425
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE 8-15-11	TIME 1330	RECEIVED BY: SIGNATURE/ORGANIZATION	DATE 15 Aug 11	TIME 1435
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO. / SEAL INTACT YES ☐ NO ☐ / INITIALS	NOTES: TEMP. ON ARRIVAL 4.7	
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO. / SEAL INTACT YES ☐ NO ☐ / INITIALS		

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 2 OF 2

*Please also send a copy of invoicing to Micki Maki (ARCADIS)

REPORT TO

CONTACT NAME: Mike Brennan / Micki Maki / Tony Maffeo
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ADDRESS: 10559 Citation Dr., Suite 100
CITY: Brighton STATE: Mi ZIP CODE: 48116
PHONE NO.: FAX NO.: P.O. NO.:
E-MAIL ADDRESS: See Contract For Details

INVOICE TO

CONTACT NAME: Ms. Monica Wallingford ☐ SAME
COMPANY: RACER Trust
ADDRESS: 2930 Ecorse Road
CITY: Ypsilanti STATE: MI ZIP CODE: 48198
PHONE NO.: 313.486.2928 FAX NO.: - P.O. NO.: MLT-1295

PROJECT NO./NAME: B0064410.2011.00801
SAMPLER(S) - PLEASE PRINT/SIGN NAME: DLN / AO, AMM/MR

TURNAROUND TIME REQUIRED: ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED: ☐ STANDARD ☒ LEVEL II ☐ LEVEL III ☒ OTHER EDD

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE O=OIL A=AIR W=WASTE M=MISC

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

MERIT LAB NO.	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCL	HNO_3	H_2SO_4	NaOH	NaOH	OTHER	Low Level Hg	SPECIAL INSTRUCTIONS/NOTES
49640.12	08/15/11	12:00	Field_Blank_08152011	L	3	3							✓	~~Lab Filled~~ DLN
.13	08/15/11	09:15	MH-1-7-Outfall003(08152011)	L	3	3							✓	
	~~08/15/11~~	~~—~~	~~MH-3-28-Outfall003(08152011)~~	~~L~~	~~3~~	~~3~~							~~✓~~	No SAMPLE DLN
	~~08/15/11~~	~~—~~	~~MH-3-25-3-Outfall003(08152011)~~	~~L~~	~~3~~	~~3~~							~~✓~~	No SAMPLE
.14	08/15/11	12:05	MH-3-51-Outfall003(08152011)	L	3	3							✓	
.15	08/15/11	11:00	MH-4-21-Outfall004(08152011)	L	3	3							✓	
.16	08/15/11	11:40	MH-13-14-Outfall013(08152011)	L	3	3							✓	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE 8/15/11	TIME 1530	RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE 8-15-11	TIME 1435
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE 8-15-11	TIME 1530	RECEIVED BY: SIGNATURE/ORGANIZATION	DATE 8/15/11	TIME 1435
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO. / SEAL INTACT YES ☐ NO ☐ / INITIALS	NOTES:	TEMP. ON ARRIVAL 4.5
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO. / SEAL INTACT YES ☐ NO ☐ / INITIALS		

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

Analytical Laboratory Report

Report ID: S50025.01(01)
Generated on 09/15/2011

Report to

Attention: Beth Nanzer/ Mike Brennan
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-225-1937 FAX: 810-229-8837
Email: bethany.nanzer@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S50025.01-S50025.02
Project: B0064410.2011.00801/Buick City/ Flint, MI
Collected Date: 09/13/2011
Submitted Date/Time: 09/13/2011 14:30
Sampled by: D. Newcom
P.O. #: MLT1295

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (2 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S50025.01	MP003A (09132011)	Liquid	09/13/2011 08:30
S50025.02	ISCO Blank (09132011)	Liquid	09/13/2011 09:00

Analytical Laboratory Report

Lab Sample ID: S50025.01
Sample Tag: MP003A (09132011)
Collected Date/Time: 09/13/2011 08:30
Matrix: Liquid
COC Reference: BC091311.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	09/14/11 14:57	CCM		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	09/14/11 15:15	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	09/14/11 15:15	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	09/14/11 15:15	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	09/14/11 15:15	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	09/14/11 15:15	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	09/14/11 15:15	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	09/14/11 15:15	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	09/14/11 15:15	JANB	1336-36-3	

Analytical Laboratory Report

Lab Sample ID: S50025.02
Sample Tag: ISCO Blank (09132011)
Collected Date/Time: 09/13/2011 09:00
Matrix: Liquid
COC Reference: BC091311.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	09/14/11 14:57	CCM		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	09/14/11 15:26	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	09/14/11 15:26	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	09/14/11 15:26	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	09/14/11 15:26	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	09/14/11 15:26	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	09/14/11 15:26	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	09/14/11 15:26	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	09/14/11 15:26	JANB	1336-36-3	

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID: BC091311.1

Contact & Company Name: Beth Nanzer ARCADIS	Telephone: 810-229-1937
Address: 10559 Citation DR	Fax: 810-229-8837
City State Zip: Brighton, MI 48116	E-mail Address: bethany.nanzer@arcadis-us.com
Project Name/Location (City, State): Buick City/ Flint, MI	Project #: B0064410.~~3###~~ 2011.00801
Sampler's Printed Name: D. Newcom	Sampler's Signature:

Sample ID	Collection Date	Collection Time	Type Comp	Type Grab	Matrix	Total PCB's									
Preservative						E									
Filtered (✓)															
# of Containers						2									
Container Information						2									
MP003A_09132011	9/13/11	0830	x		w		x								
ISCO_Blank_09132011	9/13/11	0900		x	w		x								

5008 01 02

PARAMETER ANALYSIS & METHOD

KEYS

Preservative Key: A. H_2SO_4 B. HCL C. NaOH D. HNO_3 E. None F. G. H.

Container Information Key: 1. 40 ml VOA 2. 1 L Amber 3. 125 ml Plastic 4. 250 ml Plastic 5. 500 ml Plastic 6. 1 L Plastic 7. 2 oz. Glass 8. 4 oz. Glass 9. 8 oz. Glass 10. Other

Matrix Key: SE = Sediment SO = Soil A = Air NL = NAPL/Oil SL = Sludge SW = Surface

REMARKS: MP003A_09132011

Special Instructions/Comments: Invoice to: Ms. Monica Wallingford, Racer Trust, 2930 Ecorse Road, Ypsilanti, MI 48198, (313) 466.2926, P.O.No: MLT1295a - Please also send copy of Invoicing to Micki Maki (ARCADIS).

Special QA/QC Instructions: EDD Requested
CC: MIKE BRENNAN (ARCADIS) ON RESULTS DLM

Laboratory Information and Receipt		Relinquished By	Received By	Laboratory Received By
Lab Name: Merit	Cooler Custody Seal: ☐ Intact ☐ Not Intact	Printed Name: D. Newcom	Printed Name: Chris Gauthier	Printed Name: Paula Shaw
☑ Cooler packed with ice (✓)		Signature:	Signature:	Signature:
Specify Turnaround Requirements:	Sample Receipt:	ARCADIS	Firm: Merit	Firm: Merit
Fed-Ex Tracking #: 0	Condition/Cooler Temp: 5.1	Date/Time: 9/13/11	Date/Time: 9-13-11 1025	Date/Time: 9-13-11 1430

Analytical Laboratory Report

Report ID: S50048.01(01)
Generated on 09/22/2011

Report to

Attention: Mike Brennan/Micki Macki/Tony M.
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S50048.01-S50048.14
Project: B0064410.2011.00801 / Buick City / Flint MI
Collected Date: 09/14/2011
Submitted Date/Time: 09/14/2011 14:50
Sampled by: DLN, AO
P.O. #: B0064410.2011.0

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (14 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S50048.01	MP001_09142011	Liquid	09/14/2011 09:30
S50048.02	MP002_09142011	Liquid	09/14/2011 08:45
S50048.03	MP003_09142011	Liquid	09/14/2011 11:00
S50048.04	MP005_09142011	Liquid	09/14/2011 10:30
S50048.05	MP006_09142011	Liquid	09/14/2011 11:10
S50048.06	MP009_09142011	Liquid	09/14/2011 10:15
S50048.07	MP010_09142011	Liquid	09/14/2011 11:45
S50048.08	MP010_09142011 MS	Liquid	09/14/2011 11:45
S50048.09	MP010_09142011 MSD	Liquid	09/14/2011 11:45
S50048.10	MP011_09142011	Liquid	09/14/2011 13:00
S50048.11	MP013_09142011	Liquid	09/14/2011 12:30
S50048.12	Field Blank_09142011	Liquid	09/14/2011 07:20
S50048.13	Equip Blank_09142011	Liquid	09/14/2011 07:45
S50048.14	Trip Blank_09142011	Liquid	09/14/2011 00:01

Analytical Laboratory Report

Lab Sample ID: S50048.01
Sample Tag: MP001_09142011
Collected Date/Time: 09/14/2011 09:30
Matrix: Liquid
COC Reference: BC091411.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	1.2	ng/L	0.51	1631E	09/21/11 12:00	Fiber	7439-97-6	O1

O-Analysis performed by outside laboratory. See attached report. 1-The analyte was detected in the associated method blank.

Analytical Laboratory Report

Lab Sample ID: S50048.02
Sample Tag: MP002_09142011
Collected Date/Time: 09/14/2011 08:45
Matrix: Liquid
COC Reference: BC091411.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	6.9	ng/L	0.52	1631E	09/21/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S50048.03
Sample Tag: MP003_09142011
Collected Date/Time: 09/14/2011 11:00
Matrix: Liquid
COC Reference: BC091411.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	8.3	ng/L	5.1	1631E	09/21/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S50048.04
Sample Tag: MP005_09142011
Collected Date/Time: 09/14/2011 10:30
Matrix: Liquid
COC Reference: BC091411.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	1.3	ng/L	0.51	1631E	09/21/11 12:00	Fiber	7439-97-6	O1

O-Analysis performed by outside laboratory. See attached report. 1-The analyte was detected in the associated method blank.

Analytical Laboratory Report

Lab Sample ID: S50048.05
Sample Tag: MP006_09142011
Collected Date/Time: 09/14/2011 11:10
Matrix: Liquid
COC Reference: BC091411.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	1.1	ng/L	0.51	1631E	09/21/11 12:00	Fiber	7439-97-6	O1

O-Analysis performed by outside laboratory. See attached report. 1-The analyte was detected in the associated method blank.

Analytical Laboratory Report

Lab Sample ID: S50048.06
Sample Tag: MP009_09142011
Collected Date/Time: 09/14/2011 10:15
Matrix: Liquid
COC Reference: BC091411.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	3.6	ng/L	0.51	1631E	09/21/11 12:00	Fiber	7439-97-6	O1

O-Analysis performed by outside laboratory. See attached report. 1-The analyte was detected in the associated method blank.

Analytical Laboratory Report

Lab Sample ID: S50048.07
Sample Tag: MP010_09142011
Collected Date/Time: 09/14/2011 11:45
Matrix: Liquid
COC Reference: BC091411.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	1.4	ng/L	0.51	1631E	09/21/11 12:00	Fiber	7439-97-6	O1

O-Analysis performed by outside laboratory. See attached report. 1-The analyte was detected in the associated method blank.

Analytical Laboratory Report

Lab Sample ID: S50048.08
Sample Tag: MP010_09142011 MS
Collected Date/Time: 09/14/2011 11:45
Matrix: Liquid
COC Reference: BC091411.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags

Analytical Laboratory Report

Lab Sample ID: S50048.09
Sample Tag: MP010_09142011 MSD
Collected Date/Time: 09/14/2011 11:45
Matrix: Liquid
COC Reference: BC091411.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags

Analytical Laboratory Report

Lab Sample ID: S50048.10
Sample Tag: MP011_09142011
Collected Date/Time: 09/14/2011 13:00
Matrix: Liquid
COC Reference: BC091411.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	0.92	ng/L	0.51	1631E	09/21/11 12:00	Fiber	7439-97-6	O1

O-Analysis performed by outside laboratory. See attached report. 1-The analyte was detected in the associated method blank.

Analytical Laboratory Report

Lab Sample ID: S50048.11
Sample Tag: MP013_09142011
Collected Date/Time: 09/14/2011 12:30
Matrix: Liquid
COC Reference: BC091411.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	29	ng/L	5.1	1631E	09/21/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S50048.12
Sample Tag: Field Blank_09142011
Collected Date/Time: 09/14/2011 07:20
Matrix: Liquid
COC Reference: BC091411.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	0.59	ng/L	0.51	1631E	09/21/11 12:00	Fiber	7439-97-6	O1

O-Analysis performed by outside laboratory. See attached report. 1-The analyte was detected in the associated method blank.

Analytical Laboratory Report

Lab Sample ID: S50048.13
Sample Tag: Equip Blank_09142011
Collected Date/Time: 09/14/2011 07:45
Matrix: Liquid
COC Reference: BC091411.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	0.60	ng/L	0.50	1631E	09/21/11 12:00	Fiber	7439-97-6	O1

O-Analysis performed by outside laboratory. See attached report. 1-The analyte was detected in the associated method blank.

Analytical Laboratory Report

Lab Sample ID: S50048.14
Sample Tag: Trip Blank_09142011
Collected Date/Time: 09/14/2011 00:01
Matrix: Liquid
COC Reference: BC091411.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	Not detected	ng/L	0.50	1631E	09/21/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID: BC091411.2

Send Results To:

Contact & Company Name: Mike Brennan, Micki Maki, Tony Maffeo	Telephone: 810.225.1900
Address: 10559 Citation DR, Suite 100	Fax: 810-229-8837
City State Zip: Brighton, MI 48116	E-mail Address:
Project Name/Location (City, State): Buick City/ Flint, MI	Project #: B0064410.2011.00801
Sampler's Printed Name: D. Newcorn, A. O'Neil	Sampler's Signature:

PARAMETER ANALYSIS & METHOD

Sample ID	Collection Date	Collection Time	Type Comp	Type Grab	Matrix	Low Level Mercury
Preservative						E
Filtered (Y)						
# of Containers						3
Container Information						1
50048.01 MP001_09142011	9/14/11	0930		x	w	x
.02 MP002_09142011	9/14/11	0845		x	w	x
.03 MP003_09142011	9/14/11	1100		x	w	x
.04 MP005_09142011	9/14/11	1030		x	w	x
.05 MP006_09142011	9/14/11	1110		x	w	x
.06 MP009_09142011	9/14/11	1015		x	w	x
07/.08/.09 MP010_09142011	9/14/11	1145		x	w	x
.10 MP011_09142011	9/14/11	1300		x	w	x
.11 MP013_09142011	9/14/11	1230		x	w	x
.12 Field_Blank_09142011	9/14/11	0720		x	w	x
.13 Equip_Blank_09142011	9/14/11	0745		x	w	x
.14 Trip_Blank_09142011	na	na		x	w	x

KEYS

Preservation Key:
A. H_2SO_4
B. HCL
C. NaOH
D. HNO_3
E. None
F.
G.
H.

Container Information Key:
1. 40 mL VOA
2. 1 L Amber
3. 125 mL Plastic
4. 250 mL Plastic
5. 500 mL Plastic
6. 1 L Plastic
7. 2 oz. Glass
8. 4 oz. Glass
9. 8 oz. Glass
10.

Matrix Key:
SE = Sediment
SO = Soil
A = Air
NL = NAPL / Oil
SL = Sludge
SW = Surface

REMARKS

MS/MSD

Lab Filled

Special Instructions/Comments: Invoice to: Ms. Monica Wallingford, Racer Trust, 2930 Ecorse Road, Ypsilanti, MI 48198, (313) 486.2928, P.O.No: FLN0035-600110 - Please also send copy of Invoicing to Micki Maki (ARCADIS).
Emails: michael.brennan@aradis-us.com; micki.maki@arcadis-us.com; tony.maffeo@arcadis-us.com

Special QA/QC Instructions (✓): Level II and EDD

Laboratory Information and Receipt		Relinquished By	Received By	Laboratory Received By
Lab Name: Merit	Cooler Custody Seal: ☐ Intact ☐ Not Intact	Printed Name: D.Newcorn	Printed Name: Chris Gauthier	Printed Name: Paula Shaw
☑ Cooler packed with ice (✓)		Signature:	Signature:	Signature:
Specify Turnaround Requirements: 5 day turnaround	Sample Receipt	Firm: Arcadis	Firm: Merit	Firm: Merit
Fed-Ex Tracking #: 0	Condition/Cooler Temp: 4.4	Date/Time:	Date/Time: 9-14-11 1450	Date/Time: 9-14-11 1430

Fibertec
environmental
services

Wednesday, September 21, 2011

Fibertec Project Number:	46317
Project Identification:	50048 /
Submittal Date:	09/14/2011

Ms. Paula Shaw
Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Dear Ms. Shaw,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note samples will be disposed of 30 days after reporting date.

As discussed, the MS/MSD analysis was cancelled.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**50048.01**	Chain of Custody:	**62566**
Client Project Name:	**50048**	Sample No:	**1**	Collect Date:	**09/14/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:30**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 46317-001** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**1.2**	B	ng/L	0.51	1.0	09/21/11	PM11I21A	09/21/11	M511I21B

Analytical Laboratory Report
Laboratory Project Number: 46317
Laboratory Sample Number: 46317-002

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**50048.02**	Chain of Custody:	**62566**
Client Project Name:	**50048**	Sample No:	**2**	Collect Date:	**09/14/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**08:45**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 46317-002** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**6.9**		ng/L	0.52	1.0	09/21/11	PM11I21A	09/21/11	M511I21B

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**50048.03**	Chain of Custody:	**62566**
Client Project Name:	**50048**	Sample No:	**3**	Collect Date:	**09/14/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**11:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 46317-003** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**8.3**		ng/L	5.1	10	09/21/11	PM11I21A	09/21/11	M511I21B

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**50048.04**	Chain of Custody:	**62566**
Client Project Name:	**50048**	Sample No:	**4**	Collect Date:	**09/14/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**10:30**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 46317-004** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**1.3**	B	ng/L	0.51	1.0	09/21/11	PM11I21A	09/21/11	M511I21B

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**50048.05**	Chain of Custody:	**62566**
Client Project Name:	**50048**	Sample No:	**5**	Collect Date:	**09/14/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**11:10**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 46317-005** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**1.1**	B	ng/L	0.51	1.0	09/21/11	PM11I21A	09/21/11	M511I21B

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**50048.06**	Chain of Custody:	**62566**
Client Project Name:	**50048**	Sample No:	**6**	Collect Date:	**09/14/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**10:15**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 46317-006** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**3.6**	B	ng/L	0.51	1.0	09/21/11	PM11I21A	09/21/11	M511I21B

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**50048.07**	Chain of Custody:	**62566**
Client Project Name:	**50048**	Sample No:	**7**	Collect Date:	**09/14/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**11:45**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 46317-007** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**1.4**	B	ng/L	0.51	1.0	09/21/11	PM11I21A	09/21/11	M511I21B

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**50048.10**	Chain of Custody:	**62566**
Client Project Name:	**50048**	Sample No:	**10**	Collect Date:	**09/14/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**13:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 46317-010** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**0.92**	B	ng/L	0.51	1.0	09/21/11	PM11I21A	09/21/11	M511I21B

Analytical Laboratory Report
Laboratory Project Number: 46317
Laboratory Sample Number: 46317-011

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**50048.11**	Chain of Custody:	**62566**
Client Project Name:	**50048**	Sample No:	**11**	Collect Date:	**09/14/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**12:30**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 46317-011** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**29**		ng/L	5.1	10	09/21/11	PM11I21A	09/21/11	M511I21B

Analytical Laboratory Report
Laboratory Project Number: 46317
Laboratory Sample Number: 46317-012

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**50048.12**	Chain of Custody:	**62566**
Client Project Name:	**50048**	Sample No:	**12**	Collect Date:	**09/14/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**07:20**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 46317-012** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**0.59**	B	ng/L	0.51	1.0	09/21/11	PM11I21A	09/21/11	M511I21B

1914 Holloway Drive *Holt, MI 48842* *T: (517) 699-0345* *F: (517) 699-0388*
11766 E. Grand River *Brighton, MI 48116* *T: (810) 220-3300* *F: (810) 220-3311*
8660 S. Mackinaw Trail *Cadillac, MI 49601* *T: (231) 775-8368* *F: (231) 775-8584*

lab@fibertec.us

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**50048.13**	Chain of Custody:	**62034**
Client Project Name:	**50048**	Sample No:	**13**	Collect Date:	**09/14/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**07:45**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 46317-013** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**0.60**	B	ng/L	0.50	1.0	09/21/11	PM11I21A	09/21/11	M511I21B

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**50048.14**	Chain of Custody:	**62034**
Client Project Name:	**50048**	Sample No:	**14**	Collect Date:	**09/14/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 46317-014** **Matrix: Ground Water** **Analyst: JLH**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	U		ng/L	0.50	1.0	09/21/11	PM11I21A	09/21/11	M511I21B

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QA limits

Exception Summary:

ACCREDITED IN ACCORDANCE WITH nelac

Accreditation Number:

E-10395

Analytical Laboratory Report

Revised Report

Report ID: S50051.01(02)
Generated on 12/13/2011
Replaces report S50051.01(01) generated on 09/23/2011

Report to

Attention: Mike Brennan/Micki Macki/Tony M.
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S50051.01-S50051.15
Project: B0064410.2011.00801 / Buick City / Flint MI
Collected Date: 09/14/2011
Submitted Date/Time: 09/14/2011 14:50
Sampled by: D.Newcom, A.O'Neil
P.O. #: B0064410.2011.0

* Thallium reported instead of titanium.

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Sample Summary (15 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S50051.01	MP001_09142011	Liquid	09/14/2011 09:30
S50051.02	MP002_09142011	Liquid	09/14/2011 08:45
S50051.03	MP003_09142011	Liquid	09/14/2011 11:00
S50051.04	MP005_09142011	Liquid	09/14/2011 10:30
S50051.05	MP006_09142011	Liquid	09/14/2011 11:10
S50051.06	MP009_09142011	Liquid	09/14/2011 10:15
S50051.07	MP010_09142011	Liquid	09/14/2011 11:45
S50051.08	MP010_09142011 MS	Liquid	09/14/2011 11:45
S50051.09	MP010_09142011 MSD	Liquid	09/14/2011 11:45
S50051.10	MP011_09142011	Liquid	09/14/2011 13:00
S50051.11	MP013_09142011	Liquid	09/14/2011 12:30
S50051.12	Dup001_09142011	Liquid	09/14/2011 00:01
S50051.13	Field_Blank_09142011	Liquid	09/14/2011 07:20
S50051.14	Equip_Blank_09142011	Liquid	09/14/2011 07:45
S50051.15	Trip_Blank_09142011	Liquid	09/14/2011 00:01

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50051.01
Sample Tag: MP001_09142011
Collected Date/Time: 09/14/2011 09:30
Matrix: Liquid
COC Reference: BC091411.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.2	IR
1	125ml Plastic	HNO3	Yes	5.2	IR
1	125ml Plastic	NaOH	Yes	5.2	IR
1	250ml Plastic	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	09/21/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	09/22/11 13:08	JDP	57-12-5	
Total Suspended Solids	3	mg/L	1	2540 D	09/19/11 15:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	09/21/11 14:10	SLS	7440-36-0	
Arsenic	0.003	mg/L	0.002	200.8	09/21/11 14:10	SLS	7440-38-2	
Barium	0.070	mg/L	0.005	200.8	09/21/11 14:10	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	09/21/11 14:10	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	09/21/11 14:10	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	09/21/11 14:10	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	09/21/11 14:10	SLS	7440-48-4	
Copper	0.006	mg/L	0.004	200.8	09/21/11 14:10	SLS	7440-50-8	
Lead	0.020	mg/L	0.003	200.8	09/21/11 14:10	SLS	7439-92-1	
Manganese	0.013	mg/L	0.005	200.8	09/21/11 14:10	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	09/21/11 14:10	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	09/21/11 14:10	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	09/21/11 14:10	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	09/21/11 14:10	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	09/21/11 14:10	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	09/21/11 14:10	SLS	7440-62-2	
Zinc	0.021	mg/L	0.005	200.8	09/21/11 14:10	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	09/16/11 15:28	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	09/16/11 15:28	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	09/16/11 15:28	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	09/16/11 15:28	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	09/16/11 15:28	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	09/16/11 15:28	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	09/16/11 15:28	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	09/16/11 15:28	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	09/16/11 15:28	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	09/16/11 15:28	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	75-69-4	

Lab Sample ID: S50051.01 (continued)
Sample Tag: MP001_09142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	09/16/11 15:28	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	75-34-3	
cis-1,2-Dichloroethene	2	ug/L	1	8260B	09/16/11 15:28	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	09/16/11 15:28	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	09/16/11 15:28	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	09/16/11 15:28	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	09/16/11 15:28	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	09/16/11 15:28	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	09/16/11 15:28	WAT		
o-Xylene	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	09/16/11 15:28	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	09/16/11 15:28	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	09/16/11 15:28	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	09/16/11 15:28	WAT	67-72-1	

Lab Sample ID: S50051.01 (continued)
Sample Tag: MP001_09142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	09/16/11 15:28	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	09/16/11 15:28	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	09/16/11 15:28	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	09/16/11 15:28	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	09/16/11 15:28	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50051.02
Sample Tag: MP002_09142011
Collected Date/Time: 09/14/2011 08:45
Matrix: Liquid
COC Reference: BC091411.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.2	IR
1	125ml Plastic	HNO3	Yes	5.2	IR
1	125ml Plastic	NaOH	Yes	5.2	IR
1	250ml Plastic	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	09/21/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	09/22/11 13:10	JDP	57-12-5	
Total Suspended Solids	914	mg/L	1	2540 D	09/19/11 15:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	09/21/11 14:15	SLS	7440-36-0	
Arsenic	0.007	mg/L	0.002	200.8	09/21/11 14:15	SLS	7440-38-2	
Barium	0.148	mg/L	0.005	200.8	09/21/11 14:15	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	09/21/11 14:15	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	09/21/11 14:15	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	09/21/11 14:15	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	09/21/11 14:15	SLS	7440-48-4	
Copper	0.016	mg/L	0.004	200.8	09/21/11 14:15	SLS	7440-50-8	
Lead	0.028	mg/L	0.003	200.8	09/21/11 14:15	SLS	7439-92-1	
Manganese	0.467	mg/L	0.005	200.8	09/21/11 14:15	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	09/21/11 14:15	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	09/21/11 14:15	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	09/21/11 14:15	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	09/21/11 14:15	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	09/21/11 14:15	SLS	7440-32-6	
Vanadium	0.009	mg/L	0.004	200.8	09/21/11 14:15	SLS	7440-62-2	
Zinc	0.021	mg/L	0.005	200.8	09/21/11 14:15	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	09/16/11 15:47	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	09/16/11 15:47	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	09/16/11 15:47	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	09/16/11 15:47	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	09/16/11 15:47	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	09/16/11 15:47	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	09/16/11 15:47	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	09/16/11 15:47	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	09/16/11 15:47	WAT	74-83-9	
Chloroethane	8	ug/L	5	8260B	09/16/11 15:47	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	75-69-4	

Lab Sample ID: S50051.02 (continued)
Sample Tag: MP002_09142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	09/16/11 15:47	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	156-60-5	
1,1-Dichloroethane	8	ug/L	1	8260B	09/16/11 15:47	WAT	75-34-3	
cis-1,2-Dichloroethene	5	ug/L	1	8260B	09/16/11 15:47	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	09/16/11 15:47	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	74-97-5	
1,1,1-Trichloroethane	5	ug/L	1	8260B	09/16/11 15:47	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	09/16/11 15:47	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	09/16/11 15:47	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	09/16/11 15:47	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	09/16/11 15:47	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	09/16/11 15:47	WAT		
o-Xylene	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	09/16/11 15:47	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	09/16/11 15:47	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	09/16/11 15:47	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	09/16/11 15:47	WAT	67-72-1	

Lab Sample ID: S50051.02 (continued)
Sample Tag: MP002_09142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	09/16/11 15:47	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	09/16/11 15:47	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	09/16/11 15:47	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	09/16/11 15:47	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	09/16/11 15:47	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50051.03
Sample Tag: MP003_09142011
Collected Date/Time: 09/14/2011 11:00
Matrix: Liquid
COC Reference: BC091411.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.2	IR
1	125ml Plastic	HNO3	Yes	5.2	IR
1	125ml Plastic	NaOH	Yes	5.2	IR
1	250ml Plastic	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	09/21/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	09/22/11 13:12	JDP	57-12-5	
Total Suspended Solids	5	mg/L	1	2540 D	09/19/11 15:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	09/21/11 14:19	SLS	7440-36-0	
Arsenic	0.007	mg/L	0.002	200.8	09/21/11 14:19	SLS	7440-38-2	
Barium	0.278	mg/L	0.005	200.8	09/21/11 14:19	SLS	7440-39-3	
Beryllium	0.0017	mg/L	0.001	200.8	09/21/11 14:19	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	09/21/11 14:19	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	09/21/11 14:19	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	09/21/11 14:19	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	09/21/11 14:19	SLS	7440-50-8	
Lead	0.034	mg/L	0.003	200.8	09/21/11 14:19	SLS	7439-92-1	
Manganese	0.436	mg/L	0.005	200.8	09/21/11 14:19	SLS	7439-96-5	
Nickel	0.015	mg/L	0.005	200.8	09/21/11 14:19	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	09/21/11 14:19	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	09/21/11 14:19	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	09/21/11 14:19	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	09/21/11 14:19	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	09/21/11 14:19	SLS	7440-62-2	
Zinc	0.014	mg/L	0.005	200.8	09/21/11 14:19	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	09/16/11 16:05	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	09/16/11 16:05	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	09/16/11 16:05	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	09/16/11 16:05	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	09/16/11 16:05	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	09/16/11 16:05	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	09/16/11 16:05	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	09/16/11 16:05	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	09/16/11 16:05	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	09/16/11 16:05	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	75-69-4	

Lab Sample ID: S50051.03 (continued)
Sample Tag: MP003_09142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	09/16/11 16:05	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	09/16/11 16:05	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	09/16/11 16:05	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	09/16/11 16:05	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	09/16/11 16:05	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	09/16/11 16:05	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	09/16/11 16:05	WAT		
o-Xylene	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	09/16/11 16:05	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	09/16/11 16:05	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	09/16/11 16:05	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	09/16/11 16:05	WAT	67-72-1	

Lab Sample ID: S50051.03 (continued)
Sample Tag: MP003_09142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	09/16/11 16:05	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	09/16/11 16:05	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	09/16/11 16:05	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	09/16/11 16:05	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	09/16/11 16:05	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50051.04
Sample Tag: MP005_09142011
Collected Date/Time: 09/14/2011 10:30
Matrix: Liquid
COC Reference: BC091411.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.2	IR
1	125ml Plastic	NaOH	Yes	5.2	IR
1	250ml Plastic	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	09/21/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	09/22/11 13:14	JDP	57-12-5	
Total Suspended Solids	11	mg/L	1	2540 D	09/19/11 15:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	09/21/11 14:24	SLS	7440-36-0	
Arsenic	0.079	mg/L	0.002	200.8	09/21/11 14:24	SLS	7440-38-2	
Barium	0.256	mg/L	0.005	200.8	09/21/11 14:24	SLS	7440-39-3	
Beryllium	0.0016	mg/L	0.001	200.8	09/21/11 14:24	SLS	7440-41-7	
Cadmium	0.0022	mg/L	0.0005	200.8	09/21/11 14:24	SLS	7440-43-9	
Chromium	0.007	mg/L	0.005	200.8	09/21/11 14:24	SLS	7440-47-3	
Cobalt	0.007	mg/L	0.005	200.8	09/21/11 14:24	SLS	7440-48-4	
Copper	0.051	mg/L	0.004	200.8	09/21/11 14:24	SLS	7440-50-8	
Lead	0.377	mg/L	0.003	200.8	09/21/11 14:24	SLS	7439-92-1	
Manganese	2.95	mg/L	0.005	200.8	09/21/11 14:24	SLS	7439-96-5	
Nickel	0.103	mg/L	0.005	200.8	09/21/11 14:24	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	09/21/11 14:24	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	09/21/11 14:24	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	09/21/11 14:24	SLS	7440-28-0	
Titanium	0.02	mg/L	0.02	200.8	09/21/11 14:24	SLS	7440-32-6	
Vanadium	0.004	mg/L	0.004	200.8	09/21/11 14:24	SLS	7440-62-2	
Zinc	0.668	mg/L	0.005	200.8	09/21/11 14:24	SLS	7440-66-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50051.05
Sample Tag: MP006_09142011
Collected Date/Time: 09/14/2011 11:10
Matrix: Liquid
COC Reference: BC091411.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.2	IR
1	125ml Plastic	HNO3	Yes	5.2	IR
1	125ml Plastic	NaOH	Yes	5.2	IR
1	250ml Plastic	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	09/21/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	09/22/11 13:16	JDP	57-12-5	
Total Suspended Solids	1	mg/L	1	2540 D	09/19/11 15:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	09/21/11 14:29	SLS	7440-36-0	
Arsenic	0.003	mg/L	0.002	200.8	09/21/11 14:29	SLS	7440-38-2	
Barium	0.082	mg/L	0.005	200.8	09/21/11 14:29	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	09/21/11 14:29	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	09/21/11 14:29	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	09/21/11 14:29	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	09/21/11 14:29	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	09/21/11 14:29	SLS	7440-50-8	
Lead	0.003	mg/L	0.003	200.8	09/21/11 14:29	SLS	7439-92-1	
Manganese	0.097	mg/L	0.005	200.8	09/21/11 14:29	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	09/21/11 14:29	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	09/21/11 14:29	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	09/21/11 14:29	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	09/21/11 14:29	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	09/21/11 14:29	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	09/21/11 14:29	SLS	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	09/21/11 14:29	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	09/16/11 16:55	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	09/16/11 16:55	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	09/16/11 16:55	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	09/16/11 16:55	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	09/16/11 16:55	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	09/16/11 16:55	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	09/16/11 16:55	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	09/16/11 16:55	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	09/16/11 16:55	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	09/16/11 16:55	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	75-69-4	

Lab Sample ID: S50051.05 (continued)
Sample Tag: MP006_09142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	09/16/11 16:55	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	09/16/11 16:55	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	09/16/11 16:55	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	09/16/11 16:55	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	09/16/11 16:55	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	09/16/11 16:55	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	09/16/11 16:55	WAT		
o-Xylene	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	09/16/11 16:55	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	09/16/11 16:55	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	09/16/11 16:55	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	09/16/11 16:55	WAT	67-72-1	

Lab Sample ID: S50051.05 (continued)
Sample Tag: MP006_09142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	09/16/11 16:55	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	09/16/11 16:55	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	09/16/11 16:55	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	09/16/11 16:55	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	09/16/11 16:55	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50051.06
Sample Tag: MP009_09142011
Collected Date/Time: 09/14/2011 10:15
Matrix: Liquid
COC Reference: BC091411.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.2	IR
1	125ml Plastic	HNO3	Yes	5.2	IR
1	125ml Plastic	NaOH	Yes	5.2	IR
1	250ml Plastic	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	09/21/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	09/22/11 13:18	JDP	57-12-5	
Total Suspended Solids	115	mg/L	1	2540 D	09/19/11 15:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	09/21/11 14:34	SLS	7440-36-0	
Arsenic	0.002	mg/L	0.002	200.8	09/21/11 14:34	SLS	7440-38-2	
Barium	0.207	mg/L	0.005	200.8	09/21/11 14:34	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	09/21/11 14:34	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	09/21/11 14:34	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	09/21/11 14:34	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	09/21/11 14:34	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	09/21/11 14:34	SLS	7440-50-8	
Lead	0.003	mg/L	0.003	200.8	09/21/11 14:34	SLS	7439-92-1	
Manganese	0.450	mg/L	0.005	200.8	09/21/11 14:34	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	09/21/11 14:34	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	09/21/11 14:34	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	09/21/11 14:34	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	09/21/11 14:34	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	09/21/11 14:34	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	09/21/11 14:34	SLS	7440-62-2	
Zinc	0.009	mg/L	0.005	200.8	09/21/11 14:34	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	09/16/11 17:13	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	09/16/11 17:13	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	09/16/11 17:13	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	09/16/11 17:13	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	09/16/11 17:13	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	09/16/11 17:13	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	09/16/11 17:13	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	09/16/11 17:13	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	09/16/11 17:13	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	09/16/11 17:13	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	75-69-4	

Lab Sample ID: S50051.06 (continued)
Sample Tag: MP009_09142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	09/16/11 17:13	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	75-34-3	
cis-1,2-Dichloroethene	10	ug/L	1	8260B	09/16/11 17:13	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	09/16/11 17:13	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	09/16/11 17:13	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	09/16/11 17:13	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	107-06-2	
Trichloroethene	3	ug/L	1	8260B	09/16/11 17:13	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	09/16/11 17:13	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	09/16/11 17:13	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	09/16/11 17:13	WAT		
o-Xylene	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	09/16/11 17:13	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	09/16/11 17:13	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	09/16/11 17:13	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	09/16/11 17:13	WAT	67-72-1	

Lab Sample ID: S50051.06 (continued)
Sample Tag: MP009_09142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	09/16/11 17:13	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	09/16/11 17:13	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	09/16/11 17:13	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	09/16/11 17:13	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	09/16/11 17:13	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50051.07
Sample Tag: MP010_09142011
Collected Date/Time: 09/14/2011 11:45
Matrix: Liquid
COC Reference: BC091411.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.2	IR
1	125ml Plastic	HNO3	Yes	5.2	IR
1	125ml Plastic	NaOH	Yes	5.2	IR
1	250ml Plastic	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	09/21/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	09/22/11 13:20	JDP	57-12-5	
Total Suspended Solids	1	mg/L	1	2540 D	09/19/11 15:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	09/21/11 14:43	SLS	7440-36-0	
Arsenic	0.002	mg/L	0.002	200.8	09/21/11 14:43	SLS	7440-38-2	
Barium	0.113	mg/L	0.005	200.8	09/21/11 14:43	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	09/21/11 14:43	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	09/21/11 14:43	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	09/21/11 14:43	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	09/21/11 14:43	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	09/21/11 14:43	SLS	7440-50-8	
Lead	0.003	mg/L	0.003	200.8	09/21/11 14:43	SLS	7439-92-1	
Manganese	0.030	mg/L	0.005	200.8	09/21/11 14:43	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	09/21/11 14:43	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	09/21/11 14:43	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	09/21/11 14:43	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	09/21/11 14:43	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	09/21/11 14:43	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	09/21/11 14:43	SLS	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	09/21/11 14:43	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	09/16/11 17:31	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	09/16/11 17:31	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	09/16/11 17:31	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	09/16/11 17:31	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	09/16/11 17:31	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	09/16/11 17:31	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	09/16/11 17:31	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	09/16/11 17:31	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	09/16/11 17:31	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	09/16/11 17:31	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	75-69-4	

Lab Sample ID: S50051.07 (continued)
Sample Tag: MP010_09142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	09/16/11 17:31	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	75-34-3	
cis-1,2-Dichloroethene	1	ug/L	1	8260B	09/16/11 17:31	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	09/16/11 17:31	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	09/16/11 17:31	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	09/16/11 17:31	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	09/16/11 17:31	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	09/16/11 17:31	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	09/16/11 17:31	WAT		
o-Xylene	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	09/16/11 17:31	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	09/16/11 17:31	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	09/16/11 17:31	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	09/16/11 17:31	WAT	67-72-1	

Lab Sample ID: S50051.07 (continued)
Sample Tag: MP010_09142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	09/16/11 17:31	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	09/16/11 17:31	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	09/16/11 17:31	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	09/16/11 17:31	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	09/16/11 17:31	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50051.08
Sample Tag: MP010_09142011 MS
Collected Date/Time: 09/14/2011 11:45
Matrix: Liquid
COC Reference: BC091411.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.2	IR
1	125ml Plastic	HNO3	Yes	5.2	IR
1	125ml Plastic	NaOH	Yes	5.2	IR
1	250ml Plastic	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	09/21/11 01:00	SLR		
Inorganics								
Cyanide	0.092	mg/L	0.005	335.4/4500-CN-E	09/22/11 13:24	JDP	57-12-5	
Total Suspended Solids	<1	mg/L	1	2540 D	09/19/11 15:15	DJS		
Metals								
Antimony	0.265	mg/L	0.005	200.8	09/21/11 14:48	SLS	7440-36-0	
Arsenic	0.274	mg/L	0.002	200.8	09/21/11 14:48	SLS	7440-38-2	
Barium	0.367	mg/L	0.005	200.8	09/21/11 14:48	SLS	7440-39-3	
Beryllium	0.273	mg/L	0.001	200.8	09/21/11 14:48	SLS	7440-41-7	
Cadmium	0.2609	mg/L	0.0005	200.8	09/21/11 14:48	SLS	7440-43-9	
Chromium	0.266	mg/L	0.005	200.8	09/21/11 14:48	SLS	7440-47-3	
Cobalt	0.264	mg/L	0.005	200.8	09/21/11 14:48	SLS	7440-48-4	
Copper	0.263	mg/L	0.004	200.8	09/21/11 14:48	SLS	7440-50-8	
Lead	0.254	mg/L	0.003	200.8	09/21/11 14:48	SLS	7439-92-1	
Manganese	0.298	mg/L	0.005	200.8	09/21/11 14:48	SLS	7439-96-5	
Nickel	0.265	mg/L	0.005	200.8	09/21/11 14:48	SLS	7440-02-0	
Selenium	0.267	mg/L	0.005	200.8	09/21/11 14:48	SLS	7782-49-2	
Silver	0.2561	mg/L	0.0005	200.8	09/21/11 14:48	SLS	7440-22-4	
Thallium	0.256	mg/L	0.002	200.8	09/21/11 14:48	SLS	7440-28-0	
Titanium	0.27	mg/L	0.02	200.8	09/21/11 14:48	SLS	7440-32-6	
Vanadium	0.271	mg/L	0.004	200.8	09/21/11 14:48	SLS	7440-62-2	
Zinc	0.266	mg/L	0.005	200.8	09/21/11 14:48	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	50	ug/L	10	8260B	09/23/11 01:46	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	8260B	09/23/11 01:46	WAT	67-64-1	1
Methyl iodide	52	ug/L	1	8260B	09/23/11 01:46	WAT	74-88-4	1
Carbon disulfide	52	ug/L	5	8260B	09/23/11 01:46	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	49	ug/L	5	8260B	09/23/11 01:46	WAT	1634-04-4	1
Acrylonitrile	48	ug/L	2	8260B	09/23/11 01:46	WAT	107-13-1	1
2-Butanone (MEK)	33	ug/L	25	8260B	09/23/11 01:46	WAT	78-93-3	1
Dichlorodifluoromethane	54	ug/L	5	8260B	09/23/11 01:46	WAT	75-71-8	1
Chloromethane	56	ug/L	5	8260B	09/23/11 01:46	WAT	74-87-3	1
Vinyl chloride	55	ug/L	1	8260B	09/23/11 01:46	WAT	75-01-4	1
Bromomethane	59	ug/L	5	8260B	09/23/11 01:46	WAT	74-83-9	1
Chloroethane	65	ug/L	5	8260B	09/23/11 01:46	WAT	75-00-3	1

1-Spiked at 50ug/l

Lab Sample ID: S50051.08 (continued)
Sample Tag: MP010_09142011 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Trichlorofluoromethane	60	ug/L	1	8260B	09/23/11 01:46	WAT	75-69-4	1
1,1-Dichloroethene	53	ug/L	1	8260B	09/23/11 01:46	WAT	75-35-4	1
Methylene chloride	54	ug/L	5	8260B	09/23/11 01:46	WAT	75-09-2	1
trans-1,2-Dichloroethene	54	ug/L	1	8260B	09/23/11 01:46	WAT	156-60-5	1
1,1-Dichloroethane	54	ug/L	1	8260B	09/23/11 01:46	WAT	75-34-3	1
cis-1,2-Dichloroethene	54	ug/L	1	8260B	09/23/11 01:46	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	8260B	09/23/11 01:46	WAT	109-99-9	1
Chloroform	55	ug/L	1	8260B	09/23/11 01:46	WAT	67-66-3	1
Bromochloromethane	54	ug/L	1	8260B	09/23/11 01:46	WAT	74-97-5	1
1,1,1-Trichloroethane	56	ug/L	1	8260B	09/23/11 01:46	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	09/23/11 01:46	WAT	108-10-1	1
2-Hexanone	Not detected	ug/L	50	8260B	09/23/11 01:46	WAT	591-78-6	1
Carbon tetrachloride	51	ug/L	1	8260B	09/23/11 01:46	WAT	56-23-5	1
Benzene	53	ug/L	1	8260B	09/23/11 01:46	WAT	71-43-2	1
1,2-Dichloroethane	52	ug/L	1	8260B	09/23/11 01:46	WAT	107-06-2	1
Trichloroethene	51	ug/L	1	8260B	09/23/11 01:46	WAT	79-01-6	1
1,2-Dichloropropane	55	ug/L	1	8260B	09/23/11 01:46	WAT	78-87-5	1
Bromodichloromethane	51	ug/L	1	8260B	09/23/11 01:46	WAT	75-27-4	1
Dibromomethane	52	ug/L	5	8260B	09/23/11 01:46	WAT	74-95-3	1
cis-1,3-Dichloropropene	50	ug/L	1	8260B	09/23/11 01:46	WAT	10061-01-5	1
Toluene	52	ug/L	1	8260B	09/23/11 01:46	WAT	108-88-3	1
trans-1,3-Dichloropropene	48	ug/L	1	8260B	09/23/11 01:46	WAT	10061-02-6	1
1,1,2-Trichloroethane	51	ug/L	1	8260B	09/23/11 01:46	WAT	79-00-5	1
Tetrachloroethene	50	ug/L	1	8260B	09/23/11 01:46	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	39	ug/L	1	8260B	09/23/11 01:46	WAT	110-57-6	1
Dibromochloromethane	50	ug/L	5	8260B	09/23/11 01:46	WAT	124-48-1	1
1,2-Dibromoethane	51	ug/L	1	8260B	09/23/11 01:46	WAT	106-93-4	1
Chlorobenzene	53	ug/L	1	8260B	09/23/11 01:46	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	52	ug/L	1	8260B	09/23/11 01:46	WAT	630-20-6	1
Ethylbenzene	54	ug/L	1	8260B	09/23/11 01:46	WAT	100-41-4	1
p,m-Xylene	105	ug/L	2	8260B	09/23/11 01:46	WAT		1
o-Xylene	54	ug/L	1	8260B	09/23/11 01:46	WAT	95-47-6	1
Styrene	46	ug/L	1	8260B	09/23/11 01:46	WAT	100-42-5	1
Isopropylbenzene	53	ug/L	5	8260B	09/23/11 01:46	WAT	98-82-8	1
Bromoform	47	ug/L	1	8260B	09/23/11 01:46	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	49	ug/L	1	8260B	09/23/11 01:46	WAT	79-34-5	1
1,2,3-Trichloropropane	47	ug/L	1	8260B	09/23/11 01:46	WAT	96-18-4	1
n-Propylbenzene	54	ug/L	1	8260B	09/23/11 01:46	WAT	103-65-1	1
Bromobenzene	53	ug/L	1	8260B	09/23/11 01:46	WAT	108-86-1	1
1,3,5-Trimethylbenzene	52	ug/L	1	8260B	09/23/11 01:46	WAT	108-67-8	1
tert-Butylbenzene	54	ug/L	1	8260B	09/23/11 01:46	WAT	98-06-6	1
1,2,4-Trimethylbenzene	52	ug/L	1	8260B	09/23/11 01:46	WAT	95-63-6	1
sec-Butylbenzene	55	ug/L	1	8260B	09/23/11 01:46	WAT	135-98-8	1
p-Isopropyltoluene	56	ug/L	5	8260B	09/23/11 01:46	WAT	99-87-6	1
1,3-Dichlorobenzene	54	ug/L	1	8260B	09/23/11 01:46	WAT	541-73-1	1
1,4-Dichlorobenzene	52	ug/L	1	8260B	09/23/11 01:46	WAT	106-46-7	1
1,2-Dichlorobenzene	53	ug/L	1	8260B	09/23/11 01:46	WAT	95-50-1	1
1,2,3-Trimethylbenzene	53	ug/L	1	8260B	09/23/11 01:46	WAT	526-73-8	1

1-Spiked at 50ug/l

Lab Sample ID: S50051.08 (continued)
Sample Tag: MP010_09142011 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	55	ug/L	1	8260B	09/23/11 01:46	WAT	104-51-8	1
Hexachloroethane	50	ug/L	5	8260B	09/23/11 01:46	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	44	ug/L	5	8260B	09/23/11 01:46	WAT	96-12-8	1
1,2,4-Trichlorobenzene	52	ug/L	5	8260B	09/23/11 01:46	WAT	120-82-1	1
1,2,3-Trichlorobenzene	55	ug/L	5	8260B	09/23/11 01:46	WAT	87-61-6	1
Naphthalene	52	ug/L	5	8260B	09/23/11 01:46	WAT	91-20-3	1
2-Methylnaphthalene	47	ug/L	5	8260B	09/23/11 01:46	WAT	91-57-6	1

1-Spiked at 50ug/l

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50051.09
Sample Tag: MP010_09142011 MSD
Collected Date/Time: 09/14/2011 11:45
Matrix: Liquid
COC Reference: BC091411.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.2	IR
1	125ml Plastic	HNO3	Yes	5.2	IR
1	125ml Plastic	NaOH	Yes	5.2	IR
1	250ml Plastic	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	09/21/11 01:00	SLR		
Inorganics								
Cyanide	0.092	mg/L	0.005	335.4/4500-CN-E	09/22/11 13:26	JDP	57-12-5	
Total Suspended Solids	2	mg/L	1	2540 D	09/19/11 15:15	DJS		
Metals								
Antimony	0.265	mg/L	0.005	200.8	09/21/11 14:53	SLS	7440-36-0	
Arsenic	0.270	mg/L	0.002	200.8	09/21/11 14:53	SLS	7440-38-2	
Barium	0.363	mg/L	0.005	200.8	09/21/11 14:53	SLS	7440-39-3	
Beryllium	0.274	mg/L	0.001	200.8	09/21/11 14:53	SLS	7440-41-7	
Cadmium	0.2579	mg/L	0.0005	200.8	09/21/11 14:53	SLS	7440-43-9	
Chromium	0.261	mg/L	0.005	200.8	09/21/11 14:53	SLS	7440-47-3	
Cobalt	0.260	mg/L	0.005	200.8	09/21/11 14:53	SLS	7440-48-4	
Copper	0.260	mg/L	0.004	200.8	09/21/11 14:53	SLS	7440-50-8	
Lead	0.253	mg/L	0.003	200.8	09/21/11 14:53	SLS	7439-92-1	
Manganese	0.292	mg/L	0.005	200.8	09/21/11 14:53	SLS	7439-96-5	
Nickel	0.259	mg/L	0.005	200.8	09/21/11 14:53	SLS	7440-02-0	
Selenium	0.269	mg/L	0.005	200.8	09/21/11 14:53	SLS	7782-49-2	
Silver	0.2525	mg/L	0.0005	200.8	09/21/11 14:53	SLS	7440-22-4	
Thallium	0.256	mg/L	0.002	200.8	09/21/11 14:53	SLS	7440-28-0	
Titanium	0.27	mg/L	0.02	200.8	09/21/11 14:53	SLS	7440-32-6	
Vanadium	0.266	mg/L	0.004	200.8	09/21/11 14:53	SLS	7440-62-2	
Zinc	0.257	mg/L	0.005	200.8	09/21/11 14:53	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	50	ug/L	10	8260B	09/23/11 02:04	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	8260B	09/23/11 02:04	WAT	67-64-1	1
Methyl iodide	56	ug/L	1	8260B	09/23/11 02:04	WAT	74-88-4	1
Carbon disulfide	59	ug/L	5	8260B	09/23/11 02:04	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	49	ug/L	5	8260B	09/23/11 02:04	WAT	1634-04-4	1
Acrylonitrile	46	ug/L	2	8260B	09/23/11 02:04	WAT	107-13-1	1
2-Butanone (MEK)	31	ug/L	25	8260B	09/23/11 02:04	WAT	78-93-3	1
Dichlorodifluoromethane	62	ug/L	5	8260B	09/23/11 02:04	WAT	75-71-8	1
Chloromethane	62	ug/L	5	8260B	09/23/11 02:04	WAT	74-87-3	1
Vinyl chloride	63	ug/L	1	8260B	09/23/11 02:04	WAT	75-01-4	1
Bromomethane	67	ug/L	5	8260B	09/23/11 02:04	WAT	74-83-9	1
Chloroethane	77	ug/L	5	8260B	09/23/11 02:04	WAT	75-00-3	1

1-Spiked at 50ug/l

Lab Sample ID: S50051.09 (continued)
Sample Tag: MP010_09142011 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Trichlorofluoromethane	70	ug/L	1	8260B	09/23/11 02:04	WAT	75-69-4	1
1,1-Dichloroethene	60	ug/L	1	8260B	09/23/11 02:04	WAT	75-35-4	1
Methylene chloride	56	ug/L	5	8260B	09/23/11 02:04	WAT	75-09-2	1
trans-1,2-Dichloroethene	61	ug/L	1	8260B	09/23/11 02:04	WAT	156-60-5	1
1,1-Dichloroethane	59	ug/L	1	8260B	09/23/11 02:04	WAT	75-34-3	1
cis-1,2-Dichloroethene	60	ug/L	1	8260B	09/23/11 02:04	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	8260B	09/23/11 02:04	WAT	109-99-9	1
Chloroform	59	ug/L	1	8260B	09/23/11 02:04	WAT	67-66-3	1
Bromochloromethane	55	ug/L	1	8260B	09/23/11 02:04	WAT	74-97-5	1
1,1,1-Trichloroethane	63	ug/L	1	8260B	09/23/11 02:04	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	09/23/11 02:04	WAT	108-10-1	1
2-Hexanone	Not detected	ug/L	50	8260B	09/23/11 02:04	WAT	591-78-6	1
Carbon tetrachloride	59	ug/L	1	8260B	09/23/11 02:04	WAT	56-23-5	1
Benzene	60	ug/L	1	8260B	09/23/11 02:04	WAT	71-43-2	1
1,2-Dichloroethane	54	ug/L	1	8260B	09/23/11 02:04	WAT	107-06-2	1
Trichloroethene	59	ug/L	1	8260B	09/23/11 02:04	WAT	79-01-6	1
1,2-Dichloropropane	59	ug/L	1	8260B	09/23/11 02:04	WAT	78-87-5	1
Bromodichloromethane	55	ug/L	1	8260B	09/23/11 02:04	WAT	75-27-4	1
Dibromomethane	54	ug/L	5	8260B	09/23/11 02:04	WAT	74-95-3	1
cis-1,3-Dichloropropene	53	ug/L	1	8260B	09/23/11 02:04	WAT	10061-01-5	1
Toluene	59	ug/L	1	8260B	09/23/11 02:04	WAT	108-88-3	1
trans-1,3-Dichloropropene	51	ug/L	1	8260B	09/23/11 02:04	WAT	10061-02-6	1
1,1,2-Trichloroethane	52	ug/L	1	8260B	09/23/11 02:04	WAT	79-00-5	1
Tetrachloroethene	57	ug/L	1	8260B	09/23/11 02:04	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	40	ug/L	1	8260B	09/23/11 02:04	WAT	110-57-6	1
Dibromochloromethane	52	ug/L	5	8260B	09/23/11 02:04	WAT	124-48-1	1
1,2-Dibromoethane	53	ug/L	1	8260B	09/23/11 02:04	WAT	106-93-4	1
Chlorobenzene	59	ug/L	1	8260B	09/23/11 02:04	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	57	ug/L	1	8260B	09/23/11 02:04	WAT	630-20-6	1
Ethylbenzene	61	ug/L	1	8260B	09/23/11 02:04	WAT	100-41-4	1
p,m-Xylene	120	ug/L	2	8260B	09/23/11 02:04	WAT		1
o-Xylene	60	ug/L	1	8260B	09/23/11 02:04	WAT	95-47-6	1
Styrene	51	ug/L	1	8260B	09/23/11 02:04	WAT	100-42-5	1
Isopropylbenzene	61	ug/L	5	8260B	09/23/11 02:04	WAT	98-82-8	1
Bromoform	50	ug/L	1	8260B	09/23/11 02:04	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	51	ug/L	1	8260B	09/23/11 02:04	WAT	79-34-5	1
1,2,3-Trichloropropane	47	ug/L	1	8260B	09/23/11 02:04	WAT	96-18-4	1
n-Propylbenzene	62	ug/L	1	8260B	09/23/11 02:04	WAT	103-65-1	1
Bromobenzene	57	ug/L	1	8260B	09/23/11 02:04	WAT	108-86-1	1
1,3,5-Trimethylbenzene	59	ug/L	1	8260B	09/23/11 02:04	WAT	108-67-8	1
tert-Butylbenzene	60	ug/L	1	8260B	09/23/11 02:04	WAT	98-06-6	1
1,2,4-Trimethylbenzene	59	ug/L	1	8260B	09/23/11 02:04	WAT	95-63-6	1
sec-Butylbenzene	66	ug/L	1	8260B	09/23/11 02:04	WAT	135-98-8	1
p-Isopropyltoluene	66	ug/L	5	8260B	09/23/11 02:04	WAT	99-87-6	1
1,3-Dichlorobenzene	61	ug/L	1	8260B	09/23/11 02:04	WAT	541-73-1	1
1,4-Dichlorobenzene	59	ug/L	1	8260B	09/23/11 02:04	WAT	106-46-7	1
1,2-Dichlorobenzene	59	ug/L	1	8260B	09/23/11 02:04	WAT	95-50-1	1
1,2,3-Trimethylbenzene	61	ug/L	1	8260B	09/23/11 02:04	WAT	526-73-8	1

1-Spiked at 50ug/l

Lab Sample ID: S50051.09 (continued)
Sample Tag: MP010_09142011 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	65	ug/L	1	8260B	09/23/11 02:04	WAT	104-51-8	1
Hexachloroethane	60	ug/L	5	8260B	09/23/11 02:04	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	47	ug/L	5	8260B	09/23/11 02:04	WAT	96-12-8	1
1,2,4-Trichlorobenzene	59	ug/L	5	8260B	09/23/11 02:04	WAT	120-82-1	1
1,2,3-Trichlorobenzene	63	ug/L	5	8260B	09/23/11 02:04	WAT	87-61-6	1
Naphthalene	58	ug/L	5	8260B	09/23/11 02:04	WAT	91-20-3	1
2-Methylnaphthalene	56	ug/L	5	8260B	09/23/11 02:04	WAT	91-57-6	1

1-Spiked at 50ug/l

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50051.10
Sample Tag: MP011_09142011
Collected Date/Time: 09/14/2011 13:00
Matrix: Liquid
COC Reference: BC091411.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.2	IR
1	125ml Plastic	HNO3	Yes	5.2	IR
1	125ml Plastic	NaOH	Yes	5.2	IR
1	250ml Plastic	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	09/21/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	09/22/11 13:28	JDP	57-12-5	
Total Suspended Solids	2	mg/L	1	2540 D	09/19/11 15:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	09/21/11 14:38	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	09/21/11 14:38	SLS	7440-38-2	
Barium	0.078	mg/L	0.005	200.8	09/21/11 14:38	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	09/21/11 14:38	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	09/21/11 14:38	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	09/21/11 14:38	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	09/21/11 14:38	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	09/21/11 14:38	SLS	7440-50-8	
Lead	0.010	mg/L	0.003	200.8	09/21/11 14:38	SLS	7439-92-1	
Manganese	0.055	mg/L	0.005	200.8	09/21/11 14:38	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	09/21/11 14:38	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	09/21/11 14:38	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	09/21/11 14:38	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	09/21/11 14:38	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	09/21/11 14:38	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	09/21/11 14:38	SLS	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	09/21/11 14:38	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	09/16/11 17:49	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	09/16/11 17:49	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	09/16/11 17:49	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	09/16/11 17:49	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	09/16/11 17:49	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	09/16/11 17:49	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	09/16/11 17:49	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	09/16/11 17:49	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	09/16/11 17:49	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	09/16/11 17:49	WAT	75-00-3	
Trichlorofluoromethane	6	ug/L	1	8260B	09/16/11 17:49	WAT	75-69-4	

Lab Sample ID: S50051.10 (continued)
Sample Tag: MP011_09142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	09/16/11 17:49	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	75-34-3	
cis-1,2-Dichloroethene	3	ug/L	1	8260B	09/16/11 17:49	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	09/16/11 17:49	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	09/16/11 17:49	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	09/16/11 17:49	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	107-06-2	
Trichloroethene	2	ug/L	1	8260B	09/16/11 17:49	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	09/16/11 17:49	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	09/16/11 17:49	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	09/16/11 17:49	WAT		
o-Xylene	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	09/16/11 17:49	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	09/16/11 17:49	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	09/16/11 17:49	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	09/16/11 17:49	WAT	67-72-1	

Lab Sample ID: S50051.10 (continued)
Sample Tag: MP011_09142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	09/16/11 17:49	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	09/16/11 17:49	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	09/16/11 17:49	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	09/16/11 17:49	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	09/16/11 17:49	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50051.11
Sample Tag: MP013_09142011
Collected Date/Time: 09/14/2011 12:30
Matrix: Liquid
COC Reference: BC091411.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.2	IR
1	125ml Plastic	NaOH	Yes	5.2	IR
1	250ml Plastic	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	09/21/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	09/22/11 13:32	JDP	57-12-5	
Total Suspended Solids	10	mg/L	1	2540 D	09/19/11 15:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	09/21/11 15:16	SLS	7440-36-0	
Arsenic	0.023	mg/L	0.002	200.8	09/21/11 15:16	SLS	7440-38-2	
Barium	0.138	mg/L	0.005	200.8	09/21/11 15:16	SLS	7440-39-3	
Beryllium	0.0010	mg/L	0.001	200.8	09/21/11 15:16	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	09/21/11 15:16	SLS	7440-43-9	
Chromium	0.005	mg/L	0.005	200.8	09/21/11 15:16	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	09/21/11 15:16	SLS	7440-48-4	
Copper	0.072	mg/L	0.004	200.8	09/21/11 15:16	SLS	7440-50-8	
Lead	0.024	mg/L	0.003	200.8	09/21/11 15:16	SLS	7439-92-1	
Manganese	0.318	mg/L	0.005	200.8	09/21/11 15:16	SLS	7439-96-5	
Nickel	0.007	mg/L	0.005	200.8	09/21/11 15:16	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	09/21/11 15:16	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	09/21/11 15:16	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	09/21/11 15:16	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	09/21/11 15:16	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	09/21/11 15:16	SLS	7440-62-2	
Zinc	0.159	mg/L	0.005	200.8	09/21/11 15:16	SLS	7440-66-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50051.12
Sample Tag: Dup001_09142011
Collected Date/Time: 09/14/2011 00:01
Matrix: Liquid
COC Reference: BC091411.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.2	IR
1	125ml Plastic	HNO3	Yes	5.2	IR
1	125ml Plastic	NaOH	Yes	5.2	IR
1	250ml Plastic	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	09/21/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	09/22/11 13:34	JDP	57-12-5	
Total Suspended Solids	416	mg/L	1	2540 D	09/19/11 15:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	09/21/11 15:21	SLS	7440-36-0	
Arsenic	0.004	mg/L	0.002	200.8	09/21/11 15:21	SLS	7440-38-2	
Barium	0.259	mg/L	0.005	200.8	09/21/11 15:21	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	09/21/11 15:21	SLS	7440-41-7	
Cadmium	0.0007	mg/L	0.0005	200.8	09/21/11 15:21	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	09/21/11 15:21	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	09/21/11 15:21	SLS	7440-48-4	
Copper	0.013	mg/L	0.004	200.8	09/21/11 15:21	SLS	7440-50-8	
Lead	0.036	mg/L	0.003	200.8	09/21/11 15:21	SLS	7439-92-1	
Manganese	1.11	mg/L	0.005	200.8	09/21/11 15:21	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	09/21/11 15:21	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	09/21/11 15:21	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	09/21/11 15:21	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	09/21/11 15:21	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	09/21/11 15:21	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	09/21/11 15:21	SLS	7440-62-2	
Zinc	0.083	mg/L	0.005	200.8	09/21/11 15:21	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	09/16/11 18:07	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	09/16/11 18:07	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	09/16/11 18:07	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	09/16/11 18:07	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	09/16/11 18:07	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	09/16/11 18:07	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	09/16/11 18:07	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	09/16/11 18:07	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	09/16/11 18:07	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	09/16/11 18:07	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	75-69-4	

Lab Sample ID: S50051.12 (continued)
Sample Tag: Dup001_09142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	09/16/11 18:07	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	75-34-3	
cis-1,2-Dichloroethene	9	ug/L	1	8260B	09/16/11 18:07	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	09/16/11 18:07	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	09/16/11 18:07	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	09/16/11 18:07	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	107-06-2	
Trichloroethene	3	ug/L	1	8260B	09/16/11 18:07	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	09/16/11 18:07	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	09/16/11 18:07	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	09/16/11 18:07	WAT		
o-Xylene	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	09/16/11 18:07	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	09/16/11 18:07	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	09/16/11 18:07	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	09/16/11 18:07	WAT	67-72-1	

Lab Sample ID: S50051.12 (continued)
Sample Tag: Dup001_09142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	09/16/11 18:07	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	09/16/11 18:07	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	09/16/11 18:07	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	09/16/11 18:07	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	09/16/11 18:07	WAT	91-57-6	

Lab Sample ID: S50051.13
Sample Tag: Field_Blank_09142011
Collected Date/Time: 09/14/2011 07:20
Matrix: Liquid
COC Reference: BC091411.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.2	IR
1	125ml Plastic	HNO3	Yes	5.2	IR
1	125ml Plastic	NaOH	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	09/21/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	09/22/11 13:36	JDP	57-12-5	
Metals								
Antimony	Not detected	mg/L	0.005	200.8	09/21/11 15:07	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	09/21/11 15:07	SLS	7440-38-2	
Barium	Not detected	mg/L	0.005	200.8	09/21/11 15:07	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	09/21/11 15:07	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	09/21/11 15:07	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	09/21/11 15:07	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	09/21/11 15:07	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	09/21/11 15:07	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	09/21/11 15:07	SLS	7439-92-1	
Manganese	Not detected	mg/L	0.005	200.8	09/21/11 15:07	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	09/21/11 15:07	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	09/21/11 15:07	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	09/21/11 15:07	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	09/21/11 15:07	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	09/21/11 15:07	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	09/21/11 15:07	SLS	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	09/21/11 15:07	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	09/16/11 18:26	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	09/16/11 18:26	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	09/16/11 18:26	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	09/16/11 18:26	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	09/16/11 18:26	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	09/16/11 18:26	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	09/16/11 18:26	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	09/16/11 18:26	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	09/16/11 18:26	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	09/16/11 18:26	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	09/16/11 18:26	WAT	75-09-2	

Lab Sample ID: S50051.13 (continued)
Sample Tag: Field_Blank_09142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	09/16/11 18:26	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	09/16/11 18:26	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	09/16/11 18:26	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	09/16/11 18:26	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	09/16/11 18:26	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	09/16/11 18:26	WAT		
o-Xylene	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	09/16/11 18:26	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	09/16/11 18:26	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	09/16/11 18:26	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	09/16/11 18:26	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	09/16/11 18:26	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	09/16/11 18:26	WAT	120-82-1	

Lab Sample ID: S50051.13 (continued)
Sample Tag: Field_Blank_09142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	09/16/11 18:26	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	09/16/11 18:26	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	09/16/11 18:26	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50051.14
Sample Tag: Equip_Blank_09142011
Collected Date/Time: 09/14/2011 07:45
Matrix: Liquid
COC Reference: BC091411.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.2	IR
1	125ml Plastic	HNO3	Yes	5.2	IR
1	125ml Plastic	NaOH	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	09/21/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	09/22/11 13:38	JDP	57-12-5	
Metals								
Antimony	Not detected	mg/L	0.005	200.8	09/21/11 15:12	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	09/21/11 15:12	SLS	7440-38-2	
Barium	Not detected	mg/L	0.005	200.8	09/21/11 15:12	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	09/21/11 15:12	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	09/21/11 15:12	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	09/21/11 15:12	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	09/21/11 15:12	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	09/21/11 15:12	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	09/21/11 15:12	SLS	7439-92-1	
Manganese	Not detected	mg/L	0.005	200.8	09/21/11 15:12	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	09/21/11 15:12	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	09/21/11 15:12	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	09/21/11 15:12	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	09/21/11 15:12	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	09/21/11 15:12	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	09/21/11 15:12	SLS	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	09/21/11 15:12	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	09/16/11 18:44	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	09/16/11 18:44	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	09/16/11 18:44	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	09/16/11 18:44	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	09/16/11 18:44	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	09/16/11 18:44	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	09/16/11 18:44	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	09/16/11 18:44	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	09/16/11 18:44	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	09/16/11 18:44	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	09/16/11 18:44	WAT	75-09-2	

Lab Sample ID: S50051.14 (continued)
Sample Tag: Equip_Blank_09142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	09/16/11 18:44	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	09/16/11 18:44	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	09/16/11 18:44	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	09/16/11 18:44	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	09/16/11 18:44	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	09/16/11 18:44	WAT		
o-Xylene	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	09/16/11 18:44	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	09/16/11 18:44	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	09/16/11 18:44	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	09/16/11 18:44	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	09/16/11 18:44	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	09/16/11 18:44	WAT	120-82-1	

Lab Sample ID: S50051.14 (continued)
Sample Tag: Equip_Blank_09142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	09/16/11 18:44	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	09/16/11 18:44	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	09/16/11 18:44	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50051.15
Sample Tag: Trip_Blank_09142011
Collected Date/Time: 09/14/2011 00:01
Matrix: Liquid
COC Reference: BC091411.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	09/21/11 15:54	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	09/21/11 15:54	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	09/21/11 15:54	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	09/21/11 15:54	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	09/21/11 15:54	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	09/21/11 15:54	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	09/21/11 15:54	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	09/21/11 15:54	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	09/21/11 15:54	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	09/21/11 15:54	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	09/21/11 15:54	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	09/21/11 15:54	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	09/21/11 15:54	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	09/21/11 15:54	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	09/21/11 15:54	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	09/21/11 15:54	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	100-41-4	

Lab Sample ID: S50051.15 (continued)
Sample Tag: Trip_Blank_09142011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
p,m-Xylene	Not detected	ug/L	2	8260B	09/21/11 15:54	WAT		
o-Xylene	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	09/21/11 15:54	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	09/21/11 15:54	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	09/21/11 15:54	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	09/21/11 15:54	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	09/21/11 15:54	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	09/21/11 15:54	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	09/21/11 15:54	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	09/21/11 15:54	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	09/21/11 15:54	WAT	91-57-6	

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID: BC091411.1

Send Results To:

Contact & Company Name: Mike Brennan, Micki Maki, Tony Maffeo	Telephone: 810.225.1900
Address: 10559 Citation DR, Suite 100	Fax: 810-229-8837
City State Zip: Brighton, MI 48116	E-mail Address:
Project Name/Location (City, State): Buick City/ Flint, MI	Project #: B0064410.2011.00801
Sampler's Printed Name: D. Newcom, A. O'Neil	Sampler's Signature:

PARAMETER ANALYSIS & METHOD

Preservative	E	C	D	B				
Filtered (✓)								
# of Containers	1	1	1	2				
Container Information	10	4	3	1				

Sample ID	Collection Date	Collection Time	Type Comp.	Type Grab	Matrix		Total Suspended Solids	Cyanide	Metals (Ag, As, Ba, Be, Cd, Cr [total], Co, Cu, Mn, Ni, Pb, Sb, Ti, Se, V, and Zn)	VOCs					REMARKS
50051.01 MP001_09142011	9/14/11	0930		x	w		x	x	x	x					
.02 MP002_09142011	9/14/11	0845		x	w		x	x	x	x					
.03 MP003_09142011	9/14/11	1100		x	w		x	x	x	x					
.04 MP005_09142011	9/14/11	1030		x	w		x	x	x						
.05 MP006_09142011	9/14/11	1110		x	w		x	x	x	x					
.06 MP009_09142011	9/14/11	1015		x	w		x	x	x	x					
.07/.08/.09 MP010_09142011	9/14/11	1145		x	w		x	x	x	x					MS/MSD
.10 MP011_09142011	9/14/11	1300		x	w		x	x	x	x					
.11 MP013_09142011	9/14/11	1230		x	w		x	x	x						
.12 Dup001_09142011	9/14/11	na		x	w		x	x	x	x					
.13 Field_Blank_09142011	9/14/11	0720		x	w			x	x	x					
.14 Equip_Blank_09142011	9/14/11	0745		x	w			x	x	x					
.15 Trip_Blank_09142011	na	na		x	w					x					Lab Filled

KEYS

Preservation Key:
A. H_2SO_4
B. HCL
C. Na_2OH
D. HNO_3
E. None
F.
G.
H.

Container Information Key:
1. 40 mL VOA
2. 1 L Amber
3. 125 mL Plastic
4. 250 mL Plastic
5. 500 mL Plastic
6. 1 L Plastic
7. 2 oz. Glass
8. 4 oz. Glass
9. 8 oz. Glass
10. Other

Matrix Key:
SE = Sediment, A = Air, SL = Sludge
SO = Soil, NL = NAPL / Oil, SW = Surface

Special Instructions/Comments: Invoice to: Ms. Monica Wallingford, Racer Trust, 2930 Ecorse Road, Ypsilanti, MI 48198, (313) 488.2928, P.O.No: FLN0035-600110 - Please also send copy of Invoicing to Micki Maki (ARCADIS).
Emails: michael.brennan@aradis-us.com; micki.maki@arcadis-us.com; tony.maffeo@arcadis-us.com

Special QA/QC Instructions (✓): Level II and EDD

Laboratory Information and Receipt		Relinquished By	Received By	Laboratory Received By
Lab Name: Merit	Cooler Custody Seal: ☐ Intact ☐ Not Intact	Printed Name: D.Newcom	Printed Name: Greg Gauthier	Printed Name: Paula Straw
☑ Cooler packed with ice (✓)		Signature:	Signature:	Signature:
Specify Turnaround Requirements: 5 day turnaround	Sample Receipt:	ARCADIS	Firm: Merit	Firm: Merit
Fed-Ex Tracking #: 0	Condition/Cooler Temp: 5.2	Date/Time:	Date/Time: 9-14-11 1450	Date/Time: 9-14-11 1450

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID: BC091411.1

ntact & Company Name: ke Brennan, Micki Maki, Tony Maffeo	Telephone: 810.225.1900
dress: 559 Citation DR, Suite 100	Fax: 810-229-6837
/ State Zip: ighton, MI 48116	E-mail Address:
t Name/Location (City, State): : City/ Flint, MI	Project #: B0064410.2011.00801
er's Printed Name: wcom, A. O'Neil	Sampler's Signature:

Sample ID	Collection Date	Collection Time	Type Comp.	Type Grab	Matrix		Total Suspended Solids	Cyanide	Metals (Ag, As, Ba, Be, Cd, Cr [total], Co, Cu, Mn, Ni, Pb, Sb, Ti, Se, V, and Zn)	VOCs					REMARKS
Preservative							E	C	D	B					
Container															
Volume							1	1	1	2					
Container Number							10	4	3	1					
							PARAMETER ANALYSIS & METHOD								
MP001_09142011	9/14/11	0930		x	w		x	x	x	x					
MP002_09142011	9/14/11	0845		x	w		x	x	x	x					
MP003_09142011	9/14/11	1100		x	w		x	x	x	x					
MP005_09142011	9/14/11	1030		x	w		x	x	x						
MP006_09142011	9/14/11	1110		x	w		x	x	x	x					
MP009_09142011	9/14/11	1015		x	w		x	x	x	x					
MP010_09142011	9/14/11	1145		x	w		x	x	x	x					MS/MSD
MP011_09142011	9/14/11	1300		x	w		x	x	x	x					
MP013_09142011	9/14/11	1230		x	w		x	x	x						
Dup001_09142011	9/14/11	na		x	w		x	x	x	x					
Field_Blank_09142011	9/14/11	0720		x	w			x	x	x					
Equip_Blank_09142011	9/14/11	0745		x	w			x	x	x					
Trip_Blank_09142011	na	na		x	w					x					Lab Filled

Preservative Key: 1. HCl 2. HNO3 3. NaOH 4. H2SO4 5. NaHSO4 6. Other

Container Information Key: 1. 125 ml Amber 2. 250 ml Amber 3. 500 ml Amber 4. 250 ml Plastic 5. 500 ml Plastic 6. 1 L Amber 7. 1 L Plastic 8. 40 ml VOA 9. 5 ml Encore 10. Other

Matrix Key: W = Water, S = Soil/Sediment, A = Air, O = Other

cial Instructions/Comments: Invoice to: Ms. Monica Wallingford, Racer Trust, 2930 Ecorse Road, Ypsilanti, MI 48198,) 486.2928, P.O.No: ~~FLN0035-600440~~ - Please also send copy of Invoicing to Micki Maki (ARCADIS).
ils: michael.brennan@aradis-us.com; micki.maki@arcadis-us.com; tony.maffeo@arcadis-us.com

Special QA/QC Instructions (✓): Level II and EDD
PO# MLT1295a

Sample Information Sent By:	Sample Delivery Method:	Relinquished By:	Received By:	Laboratory Received By:
Name:		Printed Name: D.Newcom	Printed Name: Chris Coughlin	Printed Name: Paula Straw
Cooler packed with ice (✓):	O. Courier	Signature:	Signature:	Signature:
ify Turnaround Requirements: STD TAT	Received By:	ARCADIS	Firm: Merit	Firm: Merit
Ex Tracking #:	Condition/Temp: 5.2	Date/Time: 9/14/11	Date/Time: 9-14-11 1450	Date/Time: 9-14-11 1450

Analytical Laboratory Report

Report ID: S50052.01(01)
Generated on 09/20/2011

Report to

Attention: Mike Brennan/Micki Macki/Tony M.
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S50052.01-S50052.02
Project: B0064410.2011.00801 / Buick City / Flint MI
Collected Date: 09/14/2011
Submitted Date/Time: 09/14/2011 14:50
Sampled by: D.Newcom
P.O. #: B0064410.2011.0

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (2 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S50052.01	Outfall005_09142011	Water	09/14/2011 09:20
S50052.02	ISCO Blank_09142011	Water	09/14/2011 13:20

Analytical Laboratory Report

Lab Sample ID: S50052.01
Sample Tag: Outfall005_09142011
Collected Date/Time: 09/14/2011 09:20
Matrix: Water
COC Reference: BC091411.3

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	09/16/11 15:22	CCM		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	09/19/11 18:41	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	09/19/11 18:41	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	09/19/11 18:41	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	09/19/11 18:41	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	09/19/11 18:41	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	09/19/11 18:41	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	09/19/11 18:41	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	09/19/11 18:41	JANB	1336-36-3	

Analytical Laboratory Report

Lab Sample ID: S50052.02
Sample Tag: ISCO Blank_09142011
Collected Date/Time: 09/14/2011 13:20
Matrix: Water
COC Reference: BC091411.3

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	09/16/11 15:22	CCM		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	09/19/11 18:52	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	09/19/11 18:52	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	09/19/11 18:52	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	09/19/11 18:52	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	09/19/11 18:52	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	09/19/11 18:52	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	09/19/11 18:52	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	09/19/11 18:52	JANB	1336-36-3	

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID: BC091411.3

Send Results To:

Contact & Company Name: Mike Brennan, Micki Maki, Tony Maffe	Telephone: 810.225.1900
Address: 10559 Citation DR, Suite 100	Fax: 810-229-8837
City State Zip: Brighton, MI 48116	E-mail Address:
Project Name/Location (City, State): Buick City/ Flint, MI	Project #: B0064410.2011.00801
Sampler's Printed Name: D.Newcom	Sampler's Signature:

Preservative	E							
Filtered (✓)								
# of Containers	2							
Container Integrity	2							

PARAMETER ANALYSIS & METHOD

Sample ID	Collection Date	Collection Time	Type Comp	Type Grab	Matrix		Total PCBs							
50052 01 02 Outfall005_09142011	9/14/11	0920	x		w		x							
ISCO_Blank_09142011	9/14/11	1320		x	w		x							

KEYS

Preservation Key: A. H_2SO_4 B. HCL C. NaOH D. HNO_3 E. None F. G. H.

Container Information Key: 1. 40 mL VOA 2. 1 L Amber 3. 125 mL Plastic 4. 250 mL Plastic 5. 500 mL Plastic 6. 1 L Plastic 7. 2 oz. Glass 8. 4 oz. Glass 9. 8 oz. Glass 10.

Matrix Key: SE = Sediment SO = Soil A = Air NL = NAPL / Oil SL = Sludge SW = Surface

REMARKS

Special Instructions/Comments: Invoice to: Ms. Monica Wallingford, Racer Trust, 2930 Ecorse Road, Ypsilanti, MI 48198, (313) 486.2928, P.O.No: FLN0035-600110 - Please also send copy of Invoicing to Micki Maki (ARCADIS). Emails: michael.brennan@aradis-us.com; micki.maki@arcadis-us.com; tony.maffeo@arcadis-us.com

Special QA/QC Instructions (✓): Level II and EDD

Laboratory Information and Receipt		Relinquished By	Received By	Laboratory Received By
Lab Name: Merit	Cooler Custody Seal: ☐ Intact ☐ Not Intact	Printed Name: D. Newcom, A. O'Neil	Printed Name: Chris Gauthier	Printed Name: Paula Shaw
☑ Cooler packed with ice (✓)		Signature:	Signature:	Signature:
Specify Turnaround Requirements: 5 day turnaround	Sample Receipt:	Firm: Arcadis	Firm: Merit	Firm: Merit
Fed-Ex Tracking #: 0	Condition/Cooler Temp: 5.2	Date/Time:	Date/Time: 9-14-11 1450	Date/Time: 9-14-11 1450

Analytical Laboratory Report

Revised Report

Report ID: S50339.01(02)
Generated on 12/13/2011
Replaces report S50339.01(01) generated on 10/28/2011

Report to

Attention: Mike Brennan/Micki Macki/Tony M.
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S50339.01-S50339.15
Project: B0064410.2011.00801 / Buick City / Flint MI
Collected Date: 10/12/2011
Submitted Date/Time: 10/12/2011 15:00
Sampled by: D.Newcom, A.O'Neil
P.O. #: MLT1295

* Thallium reported instead of titanium.

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Sample Summary (15 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S50339.01	MP001_10122011	Liquid	10/12/2011 11:30
S50339.02	MP002_10122011	Liquid	10/12/2011 11:50
S50339.03	MP003_10122011	Liquid	10/12/2011 13:00
S50339.04	MP005_10122011	Liquid	10/12/2011 12:45
S50339.05	MP006_10122011	Liquid	10/12/2011 11:00
S50339.06	MP009_10122011	Liquid	10/12/2011 12:30
S50339.07	MP010_10122011	Liquid	10/12/2011 10:30
S50339.08	MP010_10122011 MS	Liquid	10/12/2011 10:30
S50339.09	MP010_10122011 MSD	Liquid	10/12/2011 10:30
S50339.10	MP011_10122011	Liquid	10/12/2011 10:45
S50339.11	Dup001_10122011	Liquid	10/12/2011 00:01
S50339.12	Field Blank10122011	Liquid	10/12/2011 09:10
S50339.13	Equip Blank10122011	Liquid	10/12/2011 09:00
S50339.14	Trip Blank10122011	Liquid	10/12/2011 00:01
S50339.15	MP007_10122011	Liquid	10/12/2011 10:00

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50339.01
Sample Tag: MP001_10122011
Collected Date/Time: 10/12/2011 11:30
Matrix: Liquid
COC Reference: BC101211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.1	IR
1	125ml Plastic	HNO3	Yes	5.1	IR
1	125ml Plastic	NaOH	Yes	5.1	IR
1	250ml Plastic	None	Yes	5.1	IR
1	LL Hg Kit	None	Yes	5.1	IR
2	1L Amber	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	10/13/11 20:19	EMR		
Metal Digestion	Completed			3015A	10/24/11 11:00	PER		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	10/17/11 11:38	JDP	57-12-5	
Total Suspended Solids	32	mg/L	1	2540 D	10/18/11 14:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	10/24/11 01:31	PER	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	10/24/11 01:31	PER	7440-38-2	
Barium	0.025	mg/L	0.005	200.8	10/24/11 01:31	PER	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	10/24/11 01:31	PER	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	10/24/11 01:31	PER	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	10/24/11 01:31	PER	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	10/24/11 01:31	PER	7440-48-4	
Copper	0.012	mg/L	0.004	200.8	10/24/11 01:31	PER	7440-50-8	
Lead	0.037	mg/L	0.003	200.8	10/24/11 01:31	PER	7439-92-1	
Manganese	0.043	mg/L	0.005	200.8	10/24/11 01:31	PER	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	10/24/11 01:31	PER	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	10/24/11 01:31	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	10/24/11 01:31	PER	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	10/24/11 01:31	PER	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	10/24/11 01:31	PER	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	10/24/11 01:31	PER	7440-62-2	
Zinc	0.031	mg/L	0.005	200.8	10/24/11 01:31	PER	7440-66-6	
Mercury, Low Level	210	ng/L	0.50	1631E	10/27/11 12:00	Fiber	7439-97-6	O
Organics - Semi-Volatiles								
Semi-Volatile Organics - MDEQ								
Acenaphthene	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	208-96-8	
Anthracene	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	10/18/11 14:20	PL	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	10/18/11 14:20	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	10/18/11 14:20	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	10/18/11 14:20	PL	191-24-2	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	10/18/11 14:20	PL	50-32-8	

O-Analysis performed by outside laboratory. See attached report.

Lab Sample ID: S50339.01 (continued)
Sample Tag: MP001_10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
bis(2-Chloroethoxy)methane	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	85-68-7	
4-Chloroaniline	Not detected	ug/L	10	8270C	10/18/11 14:20	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	59-50-7	
2-Chlorophenol	Not detected	ug/L	10	8270C	10/18/11 14:20	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	7005-72-3	
Chrysene	Not detected	ug/L	1	8270C	10/18/11 14:20	PL	218-01-9	
p,m-Cresol	Not detected	ug/L	20	8270C	10/18/11 14:20	PL	3/4-Cresol	
o-Cresol	Not detected	ug/L	10	8270C	10/18/11 14:20	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/L	2	8270C	10/18/11 14:20	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	4	8270C	10/18/11 14:20	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 14:20	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 14:20	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 14:20	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/L	10	8270C	10/18/11 14:20	PL	120-83-2	
Diethyl phthalate	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	20	8270C	10/18/11 14:20	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/L	25	8270C	10/18/11 14:20	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	117-84-0	
Fluoranthene	Not detected	ug/L	1	8270C	10/18/11 14:20	PL	206-44-0	
Fluorene	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/L	10	8270C	10/18/11 14:20	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	8270C	10/18/11 14:20	PL	193-39-5	
Isophorone	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	91-57-6	
Naphthalene	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	91-20-3	
2-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 14:20	PL	88-74-4	
3-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 14:20	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 14:20	PL	100-01-6	
Nitrobenzene	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	98-95-3	
2-Nitrophenol	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	88-75-5	
4-Nitrophenol	Not detected	ug/L	25	8270C	10/18/11 14:20	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	621-64-7	

Lab Sample ID: S50339.01 (continued)
Sample Tag: MP001_10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Pentachlorophenol	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	87-86-5	
Phenanthrene	Not detected	ug/L	2	8270C	10/18/11 14:20	PL	85-01-8	
Phenol	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	108-95-2	
Pyrene	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/L	5	8270C	10/18/11 14:20	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	4	8270C	10/18/11 14:20	PL	88-06-2	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	10/19/11 15:32	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	10/19/11 15:32	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	10/19/11 15:32	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	10/19/11 15:32	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	10/19/11 15:32	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	10/19/11 15:32	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	10/19/11 15:32	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	10/19/11 15:32	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	10/19/11 15:32	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	10/19/11 15:32	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	10/19/11 15:32	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	75-34-3	
cis-1,2-Dichloroethene	2	ug/L	1	8260B	10/19/11 15:32	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	10/19/11 15:32	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	10/19/11 15:32	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	10/19/11 15:32	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	10/19/11 15:32	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	10/19/11 15:32	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	106-93-4	

Lab Sample ID: S50339.01 (continued)
Sample Tag: MP001_10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chlorobenzene	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	10/19/11 15:32	WAT		
o-Xylene	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	10/19/11 15:32	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	10/19/11 15:32	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	10/19/11 15:32	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	10/19/11 15:32	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	10/19/11 15:32	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	10/19/11 15:32	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	10/19/11 15:32	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	10/19/11 15:32	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	10/19/11 15:32	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50339.02
Sample Tag: MP002_10122011
Collected Date/Time: 10/12/2011 11:50
Matrix: Liquid
COC Reference: BC101211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.1	IR
1	125ml Plastic	HNO3	Yes	5.1	IR
1	125ml Plastic	NaOH	Yes	5.1	IR
1	250ml Plastic	None	Yes	5.1	IR
1	LL Hg Kit	None	Yes	5.1	IR
2	1L Amber	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	10/13/11 20:19	EMR		
Metal Digestion	Completed			3015A	10/24/11 11:00	PER		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	10/17/11 11:40	JDP	57-12-5	
Total Suspended Solids	16	mg/L	1	2540 D	10/18/11 14:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	10/24/11 03:32	PER	7440-36-0	
Arsenic	0.011	mg/L	0.002	200.8	10/24/11 03:32	PER	7440-38-2	
Barium	0.317	mg/L	0.005	200.8	10/24/11 03:32	PER	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	10/24/11 03:32	PER	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	10/24/11 03:32	PER	7440-43-9	
Chromium	0.011	mg/L	0.005	200.8	10/24/11 03:32	PER	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	10/24/11 03:32	PER	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	10/24/11 03:32	PER	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	10/24/11 03:32	PER	7439-92-1	
Manganese	0.523	mg/L	0.005	200.8	10/24/11 03:32	PER	7439-96-5	
Nickel	0.008	mg/L	0.005	200.8	10/24/11 03:32	PER	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	10/24/11 03:32	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	10/24/11 03:32	PER	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	10/24/11 03:32	PER	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	10/24/11 03:32	PER	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	10/24/11 03:32	PER	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	10/24/11 03:32	PER	7440-66-6	
Mercury, Low Level	11	ng/L	0.50	1631E	10/26/11 12:00	Fiber	7439-97-6	O
Organics - Semi-Volatiles								
Semi-Volatile Organics - MDEQ								
Acenaphthene	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	208-96-8	
Anthracene	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	10/18/11 14:54	PL	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	10/18/11 14:54	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	10/18/11 14:54	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	10/18/11 14:54	PL	191-24-2	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	10/18/11 14:54	PL	50-32-8	

O-Analysis performed by outside laboratory. See attached report.

Lab Sample ID: S50339.02 (continued)
Sample Tag: MP002_10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
bis(2-Chloroethoxy)methane	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	85-68-7	
4-Chloroaniline	Not detected	ug/L	10	8270C	10/18/11 14:54	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	59-50-7	
2-Chlorophenol	Not detected	ug/L	10	8270C	10/18/11 14:54	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	7005-72-3	
Chrysene	Not detected	ug/L	1	8270C	10/18/11 14:54	PL	218-01-9	
p,m-Cresol	Not detected	ug/L	20	8270C	10/18/11 14:54	PL	3/4-Cresol	
o-Cresol	Not detected	ug/L	10	8270C	10/18/11 14:54	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/L	2	8270C	10/18/11 14:54	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	4	8270C	10/18/11 14:54	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 14:54	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 14:54	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 14:54	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/L	10	8270C	10/18/11 14:54	PL	120-83-2	
Diethyl phthalate	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	20	8270C	10/18/11 14:54	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/L	25	8270C	10/18/11 14:54	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	117-84-0	
Fluoranthene	Not detected	ug/L	1	8270C	10/18/11 14:54	PL	206-44-0	
Fluorene	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/L	10	8270C	10/18/11 14:54	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	8270C	10/18/11 14:54	PL	193-39-5	
Isophorone	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	91-57-6	
Naphthalene	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	91-20-3	
2-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 14:54	PL	88-74-4	
3-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 14:54	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 14:54	PL	100-01-6	
Nitrobenzene	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	98-95-3	
2-Nitrophenol	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	88-75-5	
4-Nitrophenol	Not detected	ug/L	25	8270C	10/18/11 14:54	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	621-64-7	

Lab Sample ID: S50339.02 (continued)
Sample Tag: MP002_10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Pentachlorophenol	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	87-86-5	
Phenanthrene	Not detected	ug/L	2	8270C	10/18/11 14:54	PL	85-01-8	
Phenol	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	108-95-2	
Pyrene	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/L	5	8270C	10/18/11 14:54	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	4	8270C	10/18/11 14:54	PL	88-06-2	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	10/19/11 15:50	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	10/19/11 15:50	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	10/19/11 15:50	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	10/19/11 15:50	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	10/19/11 15:50	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	10/19/11 15:50	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	10/19/11 15:50	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	10/19/11 15:50	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	10/19/11 15:50	WAT	74-83-9	
Chloroethane	14	ug/L	5	8260B	10/19/11 15:50	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	10/19/11 15:50	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	156-60-5	
1,1-Dichloroethane	12	ug/L	1	8260B	10/19/11 15:50	WAT	75-34-3	
cis-1,2-Dichloroethene	10	ug/L	1	8260B	10/19/11 15:50	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	10/19/11 15:50	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	74-97-5	
1,1,1-Trichloroethane	5	ug/L	1	8260B	10/19/11 15:50	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	10/19/11 15:50	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	10/19/11 15:50	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	107-06-2	
Trichloroethene	2	ug/L	1	8260B	10/19/11 15:50	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	10/19/11 15:50	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	10/19/11 15:50	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	106-93-4	

Lab Sample ID: S50339.02 (continued)
Sample Tag: MP002_10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chlorobenzene	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	10/19/11 15:50	WAT		
o-Xylene	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	10/19/11 15:50	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	10/19/11 15:50	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	10/19/11 15:50	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	10/19/11 15:50	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	10/19/11 15:50	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	10/19/11 15:50	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	10/19/11 15:50	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	10/19/11 15:50	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	10/19/11 15:50	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50339.03
Sample Tag: MP003_10122011
Collected Date/Time: 10/12/2011 13:00
Matrix: Liquid
COC Reference: BC101211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.1	IR
1	125ml Plastic	HNO3	Yes	5.1	IR
1	125ml Plastic	NaOH	Yes	5.1	IR
1	250ml Plastic	None	Yes	5.1	IR
1	LL Hg Kit	None	Yes	5.1	IR
2	1L Amber	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	10/13/11 20:19	EMR		
Metal Digestion	Completed			3015A	10/24/11 11:00	PER		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	10/17/11 11:42	JDP	57-12-5	
Total Suspended Solids	3	mg/L	1	2540 D	10/18/11 14:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	10/24/11 04:58	PER	7440-36-0	
Arsenic	0.004	mg/L	0.002	200.8	10/24/11 04:58	PER	7440-38-2	
Barium	0.164	mg/L	0.005	200.8	10/24/11 04:58	PER	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	10/24/11 04:58	PER	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	10/24/11 04:58	PER	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	10/24/11 04:58	PER	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	10/24/11 04:58	PER	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	10/24/11 04:58	PER	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	10/24/11 04:58	PER	7439-92-1	
Manganese	0.229	mg/L	0.005	200.8	10/24/11 04:58	PER	7439-96-5	
Nickel	0.011	mg/L	0.005	200.8	10/24/11 04:58	PER	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	10/24/11 04:58	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	10/24/11 04:58	PER	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	10/24/11 04:58	PER	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	10/24/11 04:58	PER	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	10/24/11 04:58	PER	7440-62-2	
Zinc	0.011	mg/L	0.005	200.8	10/24/11 04:58	PER	7440-66-6	
Mercury, Low Level	2.5	ng/L	0.50	1631E	10/26/11 12:00	Fiber	7439-97-6	O
Organics - Semi-Volatiles								
Semi-Volatile Organics - MDEQ								
Acenaphthene	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	208-96-8	
Anthracene	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	10/18/11 15:27	PL	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	10/18/11 15:27	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	10/18/11 15:27	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	10/18/11 15:27	PL	191-24-2	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	10/18/11 15:27	PL	50-32-8	

O-Analysis performed by outside laboratory. See attached report.

Lab Sample ID: S50339.03 (continued)
Sample Tag: MP003_10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
bis(2-Chloroethoxy)methane	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	85-68-7	
4-Chloroaniline	Not detected	ug/L	10	8270C	10/18/11 15:27	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	59-50-7	
2-Chlorophenol	Not detected	ug/L	10	8270C	10/18/11 15:27	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	7005-72-3	
Chrysene	Not detected	ug/L	1	8270C	10/18/11 15:27	PL	218-01-9	
p,m-Cresol	Not detected	ug/L	20	8270C	10/18/11 15:27	PL	3/4-Cresol	
o-Cresol	Not detected	ug/L	10	8270C	10/18/11 15:27	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/L	2	8270C	10/18/11 15:27	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	4	8270C	10/18/11 15:27	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 15:27	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 15:27	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 15:27	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/L	10	8270C	10/18/11 15:27	PL	120-83-2	
Diethyl phthalate	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	20	8270C	10/18/11 15:27	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/L	25	8270C	10/18/11 15:27	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	117-84-0	
Fluoranthene	Not detected	ug/L	1	8270C	10/18/11 15:27	PL	206-44-0	
Fluorene	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/L	10	8270C	10/18/11 15:27	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	8270C	10/18/11 15:27	PL	193-39-5	
Isophorone	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	91-57-6	
Naphthalene	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	91-20-3	
2-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 15:27	PL	88-74-4	
3-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 15:27	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 15:27	PL	100-01-6	
Nitrobenzene	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	98-95-3	
2-Nitrophenol	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	88-75-5	
4-Nitrophenol	Not detected	ug/L	25	8270C	10/18/11 15:27	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	621-64-7	

Lab Sample ID: S50339.03 (continued)
Sample Tag: MP003_10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Pentachlorophenol	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	87-86-5	
Phenanthrene	Not detected	ug/L	2	8270C	10/18/11 15:27	PL	85-01-8	
Phenol	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	108-95-2	
Pyrene	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/L	5	8270C	10/18/11 15:27	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	4	8270C	10/18/11 15:27	PL	88-06-2	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	10/19/11 16:08	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	10/19/11 16:08	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	10/19/11 16:08	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	10/19/11 16:08	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	10/19/11 16:08	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	10/19/11 16:08	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	10/19/11 16:08	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	10/19/11 16:08	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	10/19/11 16:08	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	10/19/11 16:08	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	10/19/11 16:08	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	10/19/11 16:08	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	10/19/11 16:08	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	10/19/11 16:08	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	10/19/11 16:08	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	10/19/11 16:08	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	106-93-4	

Lab Sample ID: S50339.03 (continued)
Sample Tag: MP003_10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chlorobenzene	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	10/19/11 16:08	WAT		
o-Xylene	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	10/19/11 16:08	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	10/19/11 16:08	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	10/19/11 16:08	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	10/19/11 16:08	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	10/19/11 16:08	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	10/19/11 16:08	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	10/19/11 16:08	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	10/19/11 16:08	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	10/19/11 16:08	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50339.04
Sample Tag: MP005_10122011
Collected Date/Time: 10/12/2011 12:45
Matrix: Liquid
COC Reference: BC101211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	5.1	IR
1	125ml Plastic	NaOH	Yes	5.1	IR
1	250ml Plastic	None	Yes	5.1	IR
1	LL Hg Kit	None	Yes	5.1	IR
2	1L Amber	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	10/13/11 20:19	EMR		
Metal Digestion	Completed			3015A	10/24/11 11:00	PER		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	10/17/11 11:44	JDP	57-12-5	
Total Suspended Solids	8	mg/L	1	2540 D	10/18/11 14:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	10/24/11 03:12	PER	7440-36-0	
Arsenic	0.131	mg/L	0.002	200.8	10/24/11 03:12	PER	7440-38-2	
Barium	0.170	mg/L	0.005	200.8	10/24/11 03:12	PER	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	10/24/11 03:12	PER	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	10/24/11 03:12	PER	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	10/24/11 03:12	PER	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	10/24/11 03:12	PER	7440-48-4	
Copper	0.009	mg/L	0.004	200.8	10/24/11 03:12	PER	7440-50-8	
Lead	0.030	mg/L	0.003	200.8	10/24/11 03:12	PER	7439-92-1	
Manganese	0.547	mg/L	0.005	200.8	10/24/11 03:12	PER	7439-96-5	
Nickel	0.006	mg/L	0.005	200.8	10/24/11 03:12	PER	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	10/24/11 03:12	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	10/24/11 03:12	PER	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	10/24/11 03:12	PER	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	10/24/11 03:12	PER	7440-32-6	
Vanadium	0.004	mg/L	0.004	200.8	10/24/11 03:12	PER	7440-62-2	
Zinc	0.058	mg/L	0.005	200.8	10/24/11 03:12	PER	7440-66-6	
Mercury, Low Level	Not detected	ng/L	0.50	1631E	10/26/11 12:00	Fiber	7439-97-6	O
Organics - Semi-Volatiles								
Semi-Volatile Organics - MDEQ								
Acenaphthene	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	208-96-8	
Anthracene	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	10/18/11 16:01	PL	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	10/18/11 16:01	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	10/18/11 16:01	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	10/18/11 16:01	PL	191-24-2	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	10/18/11 16:01	PL	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	111-91-1	

O-Analysis performed by outside laboratory. See attached report.

Lab Sample ID: S50339.04 (continued)
Sample Tag: MP005_10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
bis(2-Chloroethyl)ether	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	85-68-7	
4-Chloroaniline	Not detected	ug/L	10	8270C	10/18/11 16:01	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	59-50-7	
2-Chlorophenol	Not detected	ug/L	10	8270C	10/18/11 16:01	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	7005-72-3	
Chrysene	Not detected	ug/L	1	8270C	10/18/11 16:01	PL	218-01-9	
p,m-Cresol	Not detected	ug/L	20	8270C	10/18/11 16:01	PL	3/4-Cresol	
o-Cresol	Not detected	ug/L	10	8270C	10/18/11 16:01	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/L	2	8270C	10/18/11 16:01	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	4	8270C	10/18/11 16:01	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 16:01	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 16:01	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 16:01	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/L	10	8270C	10/18/11 16:01	PL	120-83-2	
Diethyl phthalate	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	20	8270C	10/18/11 16:01	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/L	25	8270C	10/18/11 16:01	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	117-84-0	
Fluoranthene	Not detected	ug/L	1	8270C	10/18/11 16:01	PL	206-44-0	
Fluorene	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/L	10	8270C	10/18/11 16:01	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	8270C	10/18/11 16:01	PL	193-39-5	
Isophorone	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	91-57-6	
Naphthalene	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	91-20-3	
2-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 16:01	PL	88-74-4	
3-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 16:01	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 16:01	PL	100-01-6	
Nitrobenzene	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	98-95-3	
2-Nitrophenol	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	88-75-5	
4-Nitrophenol	Not detected	ug/L	25	8270C	10/18/11 16:01	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	621-64-7	
Pentachlorophenol	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	87-86-5	

Lab Sample ID: S50339.04 (continued)
Sample Tag: MP005_10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Phenanthrene	Not detected	ug/L	2	8270C	10/18/11 16:01	PL	85-01-8	
Phenol	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	108-95-2	
Pyrene	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/L	5	8270C	10/18/11 16:01	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	4	8270C	10/18/11 16:01	PL	88-06-2	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50339.05
Sample Tag: MP006_10122011
Collected Date/Time: 10/12/2011 11:00
Matrix: Liquid
COC Reference: BC101211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.1	IR
1	125ml Plastic	HNO3	Yes	5.1	IR
1	125ml Plastic	NaOH	Yes	5.1	IR
1	250ml Plastic	None	Yes	5.1	IR
1	LL Hg Kit	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	10/24/11 11:00	PER		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	10/17/11 11:46	JDP	57-12-5	
Total Suspended Solids	3	mg/L	1	2540 D	10/18/11 14:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	10/24/11 05:10	PER	7440-36-0	
Arsenic	0.003	mg/L	0.002	200.8	10/24/11 05:10	PER	7440-38-2	
Barium	0.079	mg/L	0.005	200.8	10/24/11 05:10	PER	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	10/24/11 05:10	PER	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	10/24/11 05:10	PER	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	10/24/11 05:10	PER	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	10/24/11 05:10	PER	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	10/24/11 05:10	PER	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	10/24/11 05:10	PER	7439-92-1	
Manganese	0.162	mg/L	0.005	200.8	10/24/11 05:10	PER	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	10/24/11 05:10	PER	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	10/24/11 05:10	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	10/24/11 05:10	PER	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	10/24/11 05:10	PER	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	10/24/11 05:10	PER	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	10/24/11 05:10	PER	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	10/24/11 05:10	PER	7440-66-6	
Mercury, Low Level	0.80	ng/L	0.50	1631E	10/26/11 12:00	Fiber	7439-97-6	O
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	10/19/11 16:40	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	10/19/11 16:40	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	10/19/11 16:40	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	10/19/11 16:40	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	10/19/11 16:40	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	10/19/11 16:40	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	10/19/11 16:40	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	10/19/11 16:40	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	75-01-4	

O-Analysis performed by outside laboratory. See attached report.

Lab Sample ID: S50339.05 (continued)
Sample Tag: MP006_10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Bromomethane	Not detected	ug/L	5	8260B	10/19/11 16:40	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	10/19/11 16:40	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	10/19/11 16:40	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	10/19/11 16:40	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	10/19/11 16:40	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	10/19/11 16:40	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	10/19/11 16:40	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	10/19/11 16:40	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	10/19/11 16:40	WAT		
o-Xylene	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	10/19/11 16:40	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	10/19/11 16:40	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	95-50-1	

Lab Sample ID: S50339.05 (continued)
Sample Tag: MP006_10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	10/19/11 16:40	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	10/19/11 16:40	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	10/19/11 16:40	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	10/19/11 16:40	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	10/19/11 16:40	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	10/19/11 16:40	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	10/19/11 16:40	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50339.06
Sample Tag: MP009_10122011
Collected Date/Time: 10/12/2011 12:30
Matrix: Liquid
COC Reference: BC101211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.1	IR
1	125ml Plastic	HNO3	Yes	5.1	IR
1	125ml Plastic	NaOH	Yes	5.1	IR
1	250ml Plastic	None	Yes	5.1	IR
1	LL Hg Kit	None	Yes	5.1	IR
2	1L Amber	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	10/13/11 20:19	EMR		
Metal Digestion	Completed			3015A	10/24/11 11:00	PER		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	10/17/11 11:48	JDP	57-12-5	
Total Suspended Solids	8	mg/L	1	2540 D	10/18/11 14:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	10/24/11 05:04	PER	7440-36-0	
Arsenic	0.002	mg/L	0.002	200.8	10/24/11 05:04	PER	7440-38-2	
Barium	0.159	mg/L	0.005	200.8	10/24/11 05:04	PER	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	10/24/11 05:04	PER	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	10/24/11 05:04	PER	7440-43-9	
Chromium	0.006	mg/L	0.005	200.8	10/24/11 05:04	PER	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	10/24/11 05:04	PER	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	10/24/11 05:04	PER	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	10/24/11 05:04	PER	7439-92-1	
Manganese	0.177	mg/L	0.005	200.8	10/24/11 05:04	PER	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	10/24/11 05:04	PER	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	10/24/11 05:04	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	10/24/11 05:04	PER	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	10/24/11 05:04	PER	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	10/24/11 05:04	PER	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	10/24/11 05:04	PER	7440-62-2	
Zinc	0.008	mg/L	0.005	200.8	10/24/11 05:04	PER	7440-66-6	
Mercury, Low Level	450	ng/L	0.50	1631E	10/26/11 12:00	Fiber	7439-97-6	O
Organics - Semi-Volatiles								
Semi-Volatile Organics - MDEQ								
Acenaphthene	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	208-96-8	
Anthracene	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	10/18/11 16:35	PL	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	10/18/11 16:35	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	10/18/11 16:35	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	10/18/11 16:35	PL	191-24-2	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	10/18/11 16:35	PL	50-32-8	

O-Analysis performed by outside laboratory. See attached report.

Lab Sample ID: S50339.06 (continued)
Sample Tag: MP009_10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
bis(2-Chloroethoxy)methane	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	85-68-7	
4-Chloroaniline	Not detected	ug/L	10	8270C	10/18/11 16:35	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	59-50-7	
2-Chlorophenol	Not detected	ug/L	10	8270C	10/18/11 16:35	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	7005-72-3	
Chrysene	Not detected	ug/L	1	8270C	10/18/11 16:35	PL	218-01-9	
p,m-Cresol	Not detected	ug/L	20	8270C	10/18/11 16:35	PL	3/4-Cresol	
o-Cresol	Not detected	ug/L	10	8270C	10/18/11 16:35	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/L	2	8270C	10/18/11 16:35	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	4	8270C	10/18/11 16:35	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 16:35	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 16:35	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 16:35	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/L	10	8270C	10/18/11 16:35	PL	120-83-2	
Diethyl phthalate	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	20	8270C	10/18/11 16:35	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/L	25	8270C	10/18/11 16:35	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	117-84-0	
Fluoranthene	Not detected	ug/L	1	8270C	10/18/11 16:35	PL	206-44-0	
Fluorene	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/L	10	8270C	10/18/11 16:35	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	8270C	10/18/11 16:35	PL	193-39-5	
Isophorone	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	91-57-6	
Naphthalene	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	91-20-3	
2-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 16:35	PL	88-74-4	
3-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 16:35	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 16:35	PL	100-01-6	
Nitrobenzene	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	98-95-3	
2-Nitrophenol	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	88-75-5	
4-Nitrophenol	Not detected	ug/L	25	8270C	10/18/11 16:35	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	621-64-7	

Lab Sample ID: S50339.06 (continued)
Sample Tag: MP009_10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Pentachlorophenol	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	87-86-5	
Phenanthrene	Not detected	ug/L	2	8270C	10/18/11 16:35	PL	85-01-8	
Phenol	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	108-95-2	
Pyrene	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/L	5	8270C	10/18/11 16:35	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	4	8270C	10/18/11 16:35	PL	88-06-2	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	10/19/11 16:58	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	10/19/11 16:58	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	10/19/11 16:58	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	10/19/11 16:58	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	10/19/11 16:58	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	10/19/11 16:58	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	10/19/11 16:58	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	10/19/11 16:58	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	10/19/11 16:58	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	10/19/11 16:58	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	10/19/11 16:58	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	75-34-3	
cis-1,2-Dichloroethene	11	ug/L	1	8260B	10/19/11 16:58	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	10/19/11 16:58	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	10/19/11 16:58	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	10/19/11 16:58	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	107-06-2	
Trichloroethene	3	ug/L	1	8260B	10/19/11 16:58	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	10/19/11 16:58	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	10/19/11 16:58	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	106-93-4	

Lab Sample ID: S50339.06 (continued)
Sample Tag: MP009_10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chlorobenzene	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	10/19/11 16:58	WAT		
o-Xylene	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	10/19/11 16:58	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	10/19/11 16:58	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	10/19/11 16:58	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	10/19/11 16:58	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	10/19/11 16:58	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	10/19/11 16:58	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	10/19/11 16:58	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	10/19/11 16:58	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	10/19/11 16:58	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50339.07
Sample Tag: MP010_10122011
Collected Date/Time: 10/12/2011 10:30
Matrix: Liquid
COC Reference: BC101211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.1	IR
1	125ml Plastic	HNO3	Yes	5.1	IR
1	125ml Plastic	NaOH	Yes	5.1	IR
1	250ml Plastic	None	Yes	5.1	IR
1	LL Hg Kit	None	Yes	5.1	IR
2	1L Amber	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	10/14/11 17:11	EMR		
Metal Digestion	Completed			3015A	10/24/11 11:00	PER		
Inorganics								
Cyanide	0.010	mg/L	0.005	335.4/4500-CN-E	10/17/11 11:50	JDP	57-12-5	
Total Suspended Solids	3	mg/L	1	2540 D	10/18/11 14:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	10/24/11 05:07	PER	7440-36-0	
Arsenic	0.002	mg/L	0.002	200.8	10/24/11 05:07	PER	7440-38-2	
Barium	0.108	mg/L	0.005	200.8	10/24/11 05:07	PER	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	10/24/11 05:07	PER	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	10/24/11 05:07	PER	7440-43-9	
Chromium	0.005	mg/L	0.005	200.8	10/24/11 05:07	PER	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	10/24/11 05:07	PER	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	10/24/11 05:07	PER	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	10/24/11 05:07	PER	7439-92-1	
Manganese	0.028	mg/L	0.005	200.8	10/24/11 05:07	PER	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	10/24/11 05:07	PER	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	10/24/11 05:07	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	10/24/11 05:07	PER	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	10/24/11 05:07	PER	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	10/24/11 05:07	PER	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	10/24/11 05:07	PER	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	10/24/11 05:07	PER	7440-66-6	
Mercury, Low Level	0.80	ng/L	0.50	1631E	10/26/11 12:00	Fiber	7439-97-6	O
Organics - Semi-Volatiles								
Semi-Volatile Organics - MDEQ								
Acenaphthene	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	208-96-8	
Anthracene	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	10/18/11 17:08	PL	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	10/18/11 17:08	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	10/18/11 17:08	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	10/18/11 17:08	PL	191-24-2	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	10/18/11 17:08	PL	50-32-8	

O-Analysis performed by outside laboratory. See attached report.

Lab Sample ID: S50339.07 (continued)
Sample Tag: MP010_10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
bis(2-Chloroethoxy)methane	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	85-68-7	
4-Chloroaniline	Not detected	ug/L	10	8270C	10/18/11 17:08	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	59-50-7	
2-Chlorophenol	Not detected	ug/L	10	8270C	10/18/11 17:08	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	7005-72-3	
Chrysene	Not detected	ug/L	1	8270C	10/18/11 17:08	PL	218-01-9	
p,m-Cresol	Not detected	ug/L	20	8270C	10/18/11 17:08	PL	3/4-Cresol	
o-Cresol	Not detected	ug/L	10	8270C	10/18/11 17:08	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/L	2	8270C	10/18/11 17:08	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	4	8270C	10/18/11 17:08	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 17:08	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 17:08	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 17:08	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/L	10	8270C	10/18/11 17:08	PL	120-83-2	
Diethyl phthalate	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	20	8270C	10/18/11 17:08	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/L	25	8270C	10/18/11 17:08	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	117-84-0	
Fluoranthene	Not detected	ug/L	1	8270C	10/18/11 17:08	PL	206-44-0	
Fluorene	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/L	10	8270C	10/18/11 17:08	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	8270C	10/18/11 17:08	PL	193-39-5	
Isophorone	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	91-57-6	
Naphthalene	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	91-20-3	
2-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 17:08	PL	88-74-4	
3-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 17:08	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 17:08	PL	100-01-6	
Nitrobenzene	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	98-95-3	
2-Nitrophenol	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	88-75-5	
4-Nitrophenol	Not detected	ug/L	25	8270C	10/18/11 17:08	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	621-64-7	

Lab Sample ID: S50339.07 (continued)
Sample Tag: MP010_10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Pentachlorophenol	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	87-86-5	
Phenanthrene	Not detected	ug/L	2	8270C	10/18/11 17:08	PL	85-01-8	
Phenol	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	108-95-2	
Pyrene	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/L	5	8270C	10/18/11 17:08	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	4	8270C	10/18/11 17:08	PL	88-06-2	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	10/20/11 14:20	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	10/20/11 14:20	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	10/20/11 14:20	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	10/20/11 14:20	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	10/20/11 14:20	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	10/20/11 14:20	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	10/20/11 14:20	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	10/20/11 14:20	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	10/20/11 14:20	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	10/20/11 14:20	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	10/20/11 14:20	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	75-34-3	
cis-1,2-Dichloroethene	1	ug/L	1	8260B	10/20/11 14:20	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	10/20/11 14:20	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	10/20/11 14:20	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	10/20/11 14:20	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	10/20/11 14:20	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	10/20/11 14:20	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	106-93-4	

Lab Sample ID: S50339.07 (continued)
Sample Tag: MP010_10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chlorobenzene	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	10/20/11 14:20	WAT		
o-Xylene	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	10/20/11 14:20	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	10/20/11 14:20	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	10/20/11 14:20	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	10/20/11 14:20	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	10/20/11 14:20	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	10/20/11 14:20	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	10/20/11 14:20	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	10/20/11 14:20	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	10/20/11 14:20	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50339.08
Sample Tag: MP010_10122011 MS
Collected Date/Time: 10/12/2011 10:30
Matrix: Liquid
COC Reference: BC101211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.1	IR
1	125ml Plastic	HNO3	Yes	5.1	IR
1	125ml Plastic	NaOH	Yes	5.1	IR
1	250ml Plastic	None	Yes	5.1	IR
1	1L Amber	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	10/14/11 17:11	EMR		
Metal Digestion	Completed			3015A	10/24/11 11:00	PER		
Inorganics								
Cyanide	0.100	mg/L	0.005	335.4/4500-CN-E	10/17/11 11:54	JDP	57-12-5	
Total Suspended Solids	3	mg/L	1	2540 D	10/18/11 14:15	DJS		
Metals								
Antimony	0.108	mg/L	0.005	200.8	10/24/11 03:49	PER	7440-36-0	
Arsenic	0.120	mg/L	0.002	200.8	10/24/11 03:49	PER	7440-38-2	
Barium	0.214	mg/L	0.005	200.8	10/24/11 03:49	PER	7440-39-3	
Beryllium	0.096	mg/L	0.001	200.8	10/24/11 03:49	PER	7440-41-7	
Cadmium	0.104	mg/L	0.0005	200.8	10/24/11 03:49	PER	7440-43-9	
Chromium	0.107	mg/L	0.005	200.8	10/24/11 03:49	PER	7440-47-3	
Cobalt	0.099	mg/L	0.005	200.8	10/24/11 03:49	PER	7440-48-4	
Copper	0.097	mg/L	0.004	200.8	10/24/11 03:49	PER	7440-50-8	
Lead	0.095	mg/L	0.003	200.8	10/24/11 03:49	PER	7439-92-1	
Manganese	0.126	mg/L	0.005	200.8	10/24/11 03:49	PER	7439-96-5	
Nickel	0.101	mg/L	0.005	200.8	10/24/11 03:49	PER	7440-02-0	
Selenium	0.129	mg/L	0.005	200.8	10/24/11 03:49	PER	7782-49-2	
Silver	0.0980	mg/L	0.0005	200.8	10/24/11 03:49	PER	7440-22-4	
Thallium	0.0958	mg/L	0.00001	200.8	10/24/11 03:49	PER	7440-28-0	
Titanium	0.102	mg/L	0.02	200.8	10/24/11 03:49	PER	7440-32-6	
Vanadium	0.102	mg/L	0.004	200.8	10/24/11 03:49	PER	7440-62-2	
Zinc	0.101	mg/L	0.005	200.8	10/24/11 03:49	PER	7440-66-6	
Organics - Semi-Volatiles								
Semi-Volatile Organics - MDEQ								
Acenaphthene	55	ug/L	5	8270C	10/18/11 17:42	PL	83-32-9	1
Acenaphthylene	57	ug/L	5	8270C	10/18/11 17:42	PL	208-96-8	1
Anthracene	59	ug/L	5	8270C	10/18/11 17:42	PL	120-12-7	1
Benzo(a)anthracene	60	ug/L	1	8270C	10/18/11 17:42	PL	56-55-3	1
Benzo(b)fluoranthene	66	ug/L	1	8270C	10/18/11 17:42	PL	205-99-2	1
Benzo(k)fluoranthene	60	ug/L	1	8270C	10/18/11 17:42	PL	207-08-9	1
Benzo(ghi)perylene	39	ug/L	1	8270C	10/18/11 17:42	PL	191-24-2	1
Benzo(a)pyrene	54	ug/L	1	8270C	10/18/11 17:42	PL	50-32-8	1
bis(2-Chloroethoxy)methane	52	ug/L	5	8270C	10/18/11 17:42	PL	111-91-1	1
bis(2-Chloroethyl)ether	49	ug/L	5	8270C	10/18/11 17:42	PL	111-44-4	1

1-Wet Weight Spike: 0.056 mg/L

Lab Sample ID: S50339.08 (continued)
Sample Tag: MP010_10122011 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
bis(2-Chloroisopropyl)ether	46	ug/L	5	8270C	10/18/11 17:42	PL	108-60-1	1
bis(2-Ethylhexyl)phthalate	72	ug/L	5	8270C	10/18/11 17:42	PL	117-81-7	1
4-Bromophenyl phenyl ether	59	ug/L	5	8270C	10/18/11 17:42	PL	101-55-3	1
Butyl benzyl phthalate	68	ug/L	5	8270C	10/18/11 17:42	PL	85-68-7	1
4-Chloroaniline	36	ug/L	10	8270C	10/18/11 17:42	PL	106-47-8	1
2-Chloronaphthalene	54	ug/L	5	8270C	10/18/11 17:42	PL	91-58-7	1
4-Chloro-3-methylphenol	56	ug/L	5	8270C	10/18/11 17:42	PL	59-50-7	1
2-Chlorophenol	51	ug/L	10	8270C	10/18/11 17:42	PL	95-57-8	1
4-Chlorophenyl phenyl ether	57	ug/L	5	8270C	10/18/11 17:42	PL	7005-72-3	1
Chrysene	72	ug/L	1	8270C	10/18/11 17:42	PL	218-01-9	1
p,m-Cresol	84	ug/L	20	8270C	10/18/11 17:42	PL	3/4-Cresol	1
o-Cresol	48	ug/L	10	8270C	10/18/11 17:42	PL	95-48-7	1
Dibenzo(ah)anthracene	55	ug/L	2	8270C	10/18/11 17:42	PL	53-70-3	1
Dibenzofuran	57	ug/L	4	8270C	10/18/11 17:42	PL	132-64-9	1
di-n-Butyl phthalate	64	ug/L	5	8270C	10/18/11 17:42	PL	84-74-2	1
1,2-Dichlorobenzene	46	ug/L	1	8270C	10/18/11 17:42	PL	95-50-1	1
1,3-Dichlorobenzene	44	ug/L	1	8270C	10/18/11 17:42	PL	541-73-1	1
1,4-Dichlorobenzene	44	ug/L	1	8270C	10/18/11 17:42	PL	106-46-7	1
3,3'-Dichlorobenzidine	8	ug/L	5	8270C	10/18/11 17:42	PL	91-94-1	1
2,4-Dichlorophenol	53	ug/L	10	8270C	10/18/11 17:42	PL	120-83-2	1
Diethyl phthalate	59	ug/L	5	8270C	10/18/11 17:42	PL	84-66-2	1
2,4-Dimethylphenol	57	ug/L	5	8270C	10/18/11 17:42	PL	105-67-9	1
Dimethyl phthalate	58	ug/L	5	8270C	10/18/11 17:42	PL	131-11-3	1
4,6-Dinitro-2-methylphenol	47	ug/L	20	8270C	10/18/11 17:42	PL	534-52-1	1
2,4-Dinitrophenol	47	ug/L	25	8270C	10/18/11 17:42	PL	51-28-5	1
2,4-Dinitrotoluene	62	ug/L	5	8270C	10/18/11 17:42	PL	121-14-2	1
2,6-Dinitrotoluene	59	ug/L	5	8270C	10/18/11 17:42	PL	606-20-2	1
1,2-Diphenylhydrazine	68	ug/L	5	8270C	10/18/11 17:42	PL	122-66-7	1
di-n-Octyl phthalate	90	ug/L	5	8270C	10/18/11 17:42	PL	117-84-0	1
Fluoranthene	61	ug/L	1	8270C	10/18/11 17:42	PL	206-44-0	1
Fluorene	58	ug/L	5	8270C	10/18/11 17:42	PL	86-73-7	1
Hexachlorobenzene	56	ug/L	5	8270C	10/18/11 17:42	PL	118-74-1	1
Hexachlorobutadiene	47	ug/L	10	8270C	10/18/11 17:42	PL	87-68-3	1
Hexachlorocyclopentadiene	36	ug/L	5	8270C	10/18/11 17:42	PL	77-47-4	1
Hexachloroethane	43	ug/L	5	8270C	10/18/11 17:42	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	51	ug/L	2	8270C	10/18/11 17:42	PL	193-39-5	1
Isophorone	56	ug/L	5	8270C	10/18/11 17:42	PL	78-59-1	1
2-Methylnaphthalene	53	ug/L	5	8270C	10/18/11 17:42	PL	91-57-6	1
Naphthalene	51	ug/L	5	8270C	10/18/11 17:42	PL	91-20-3	1
2-Nitroaniline	59	ug/L	25	8270C	10/18/11 17:42	PL	88-74-4	1
3-Nitroaniline	40	ug/L	25	8270C	10/18/11 17:42	PL	99-09-2	1
4-Nitroaniline	55	ug/L	25	8270C	10/18/11 17:42	PL	100-01-6	1
Nitrobenzene	52	ug/L	5	8270C	10/18/11 17:42	PL	98-95-3	1
2-Nitrophenol	54	ug/L	5	8270C	10/18/11 17:42	PL	88-75-5	1
4-Nitrophenol	45	ug/L	25	8270C	10/18/11 17:42	PL	100-02-7	1
N-Nitrosodiphenylamine	31	ug/L	5	8270C	10/18/11 17:42	PL	86-30-6	1
N-Nitrosodi-n-propylamine	52	ug/L	5	8270C	10/18/11 17:42	PL	621-64-7	1
Pentachlorophenol	61	ug/L	5	8270C	10/18/11 17:42	PL	87-86-5	1

1-Wet Weight Spike: 0.056 mg/L

Lab Sample ID: S50339.08 (continued)
Sample Tag: MP010_10122011 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Phenanthrene	57	ug/L	2	8270C	10/18/11 17:42	PL	85-01-8	1
Phenol	33	ug/L	5	8270C	10/18/11 17:42	PL	108-95-2	1
Pyrene	62	ug/L	5	8270C	10/18/11 17:42	PL	129-00-0	1
1,2,4-Trichlorobenzene	49	ug/L	5	8270C	10/18/11 17:42	PL	120-82-1	1
2,4,5-Trichlorophenol	59	ug/L	5	8270C	10/18/11 17:42	PL	95-95-4	1
2,4,6-Trichlorophenol	57	ug/L	4	8270C	10/18/11 17:42	PL	88-06-2	1
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	48	ug/L	10	8260B	10/20/11 17:18	WAT	60-29-7	2
Acetone	Not detected	ug/L	50	8260B	10/20/11 17:18	WAT	67-64-1	2
Methyl iodide	46	ug/L	1	8260B	10/20/11 17:18	WAT	74-88-4	2
Carbon disulfide	47	ug/L	5	8260B	10/20/11 17:18	WAT	75-15-0	2
tert-Methyl butyl ether (MTBE)	50	ug/L	5	8260B	10/20/11 17:18	WAT	1634-04-4	2
Acrylonitrile	52	ug/L	2	8260B	10/20/11 17:18	WAT	107-13-1	2
2-Butanone (MEK)	33	ug/L	25	8260B	10/20/11 17:18	WAT	78-93-3	2
Dichlorodifluoromethane	23	ug/L	5	8260B	10/20/11 17:18	WAT	75-71-8	2
Chloromethane	34	ug/L	5	8260B	10/20/11 17:18	WAT	74-87-3	2
Vinyl chloride	38	ug/L	1	8260B	10/20/11 17:18	WAT	75-01-4	2
Bromomethane	53	ug/L	5	8260B	10/20/11 17:18	WAT	74-83-9	2
Chloroethane	57	ug/L	5	8260B	10/20/11 17:18	WAT	75-00-3	2
Trichlorofluoromethane	49	ug/L	1	8260B	10/20/11 17:18	WAT	75-69-4	2
1,1-Dichloroethene	47	ug/L	1	8260B	10/20/11 17:18	WAT	75-35-4	2
Methylene chloride	47	ug/L	5	8260B	10/20/11 17:18	WAT	75-09-2	2
trans-1,2-Dichloroethene	51	ug/L	1	8260B	10/20/11 17:18	WAT	156-60-5	2
1,1-Dichloroethane	51	ug/L	1	8260B	10/20/11 17:18	WAT	75-34-3	2
cis-1,2-Dichloroethene	54	ug/L	1	8260B	10/20/11 17:18	WAT	156-59-2	2
Tetrahydrofuran	Not detected	ug/L	90	8260B	10/20/11 17:18	WAT	109-99-9	2
Chloroform	53	ug/L	1	8260B	10/20/11 17:18	WAT	67-66-3	2
Bromochloromethane	53	ug/L	1	8260B	10/20/11 17:18	WAT	74-97-5	2
1,1,1-Trichloroethane	52	ug/L	1	8260B	10/20/11 17:18	WAT	71-55-6	2
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	10/20/11 17:18	WAT	108-10-1	2
2-Hexanone	Not detected	ug/L	50	8260B	10/20/11 17:18	WAT	591-78-6	2
Carbon tetrachloride	50	ug/L	1	8260B	10/20/11 17:18	WAT	56-23-5	2
Benzene	52	ug/L	1	8260B	10/20/11 17:18	WAT	71-43-2	2
1,2-Dichloroethane	51	ug/L	1	8260B	10/20/11 17:18	WAT	107-06-2	2
Trichloroethene	52	ug/L	1	8260B	10/20/11 17:18	WAT	79-01-6	2
1,2-Dichloropropane	55	ug/L	1	8260B	10/20/11 17:18	WAT	78-87-5	2
Bromodichloromethane	54	ug/L	1	8260B	10/20/11 17:18	WAT	75-27-4	2
Dibromomethane	51	ug/L	5	8260B	10/20/11 17:18	WAT	74-95-3	2
cis-1,3-Dichloropropene	53	ug/L	1	8260B	10/20/11 17:18	WAT	10061-01-5	2
Toluene	53	ug/L	1	8260B	10/20/11 17:18	WAT	108-88-3	2
trans-1,3-Dichloropropene	53	ug/L	1	8260B	10/20/11 17:18	WAT	10061-02-6	2
1,1,2-Trichloroethane	53	ug/L	1	8260B	10/20/11 17:18	WAT	79-00-5	2
Tetrachloroethene	51	ug/L	1	8260B	10/20/11 17:18	WAT	127-18-4	2
trans-1,4-Dichloro-2-butene	39	ug/L	1	8260B	10/20/11 17:18	WAT	110-57-6	2
Dibromochloromethane	53	ug/L	5	8260B	10/20/11 17:18	WAT	124-48-1	2

1-Wet Weight Spike: 0.056 mg/L
2-Spiked at 50ug/l

Lab Sample ID: S50339.08 (continued)
Sample Tag: MP010_10122011 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromoethane	51	ug/L	1	8260B	10/20/11 17:18	WAT	106-93-4	1
Chlorobenzene	53	ug/L	1	8260B	10/20/11 17:18	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	54	ug/L	1	8260B	10/20/11 17:18	WAT	630-20-6	1
Ethylbenzene	53	ug/L	1	8260B	10/20/11 17:18	WAT	100-41-4	1
p,m-Xylene	105	ug/L	2	8260B	10/20/11 17:18	WAT		1
o-Xylene	54	ug/L	1	8260B	10/20/11 17:18	WAT	95-47-6	1
Styrene	50	ug/L	1	8260B	10/20/11 17:18	WAT	100-42-5	1
Isopropylbenzene	53	ug/L	5	8260B	10/20/11 17:18	WAT	98-82-8	1
Bromoform	47	ug/L	1	8260B	10/20/11 17:18	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	52	ug/L	1	8260B	10/20/11 17:18	WAT	79-34-5	1
1,2,3-Trichloropropane	52	ug/L	1	8260B	10/20/11 17:18	WAT	96-18-4	1
n-Propylbenzene	53	ug/L	1	8260B	10/20/11 17:18	WAT	103-65-1	1
Bromobenzene	51	ug/L	1	8260B	10/20/11 17:18	WAT	108-86-1	1
1,3,5-Trimethylbenzene	53	ug/L	1	8260B	10/20/11 17:18	WAT	108-67-8	1
tert-Butylbenzene	52	ug/L	1	8260B	10/20/11 17:18	WAT	98-06-6	1
1,2,4-Trimethylbenzene	54	ug/L	1	8260B	10/20/11 17:18	WAT	95-63-6	1
sec-Butylbenzene	54	ug/L	1	8260B	10/20/11 17:18	WAT	135-98-8	1
p-Isopropyltoluene	56	ug/L	5	8260B	10/20/11 17:18	WAT	99-87-6	1
1,3-Dichlorobenzene	53	ug/L	1	8260B	10/20/11 17:18	WAT	541-73-1	1
1,4-Dichlorobenzene	51	ug/L	1	8260B	10/20/11 17:18	WAT	106-46-7	1
1,2-Dichlorobenzene	52	ug/L	1	8260B	10/20/11 17:18	WAT	95-50-1	1
1,2,3-Trimethylbenzene	52	ug/L	1	8260B	10/20/11 17:18	WAT	526-73-8	1
n-Butylbenzene	54	ug/L	1	8260B	10/20/11 17:18	WAT	104-51-8	1
Hexachloroethane	45	ug/L	5	8260B	10/20/11 17:18	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	48	ug/L	5	8260B	10/20/11 17:18	WAT	96-12-8	1
1,2,4-Trichlorobenzene	52	ug/L	5	8260B	10/20/11 17:18	WAT	120-82-1	1
1,2,3-Trichlorobenzene	53	ug/L	5	8260B	10/20/11 17:18	WAT	87-61-6	1
Naphthalene	52	ug/L	5	8260B	10/20/11 17:18	WAT	91-20-3	1
2-Methylnaphthalene	47	ug/L	5	8260B	10/20/11 17:18	WAT	91-57-6	1

1-Spiked at 50ug/l

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50339.09
Sample Tag: MP010_10122011 MSD
Collected Date/Time: 10/12/2011 10:30
Matrix: Liquid
COC Reference: BC101211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.1	IR
1	125ml Plastic	HNO3	Yes	5.1	IR
1	125ml Plastic	NaOH	Yes	5.1	IR
1	250ml Plastic	None	Yes	5.1	IR
1	1L Amber	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	10/14/11 17:11	EMR		
Metal Digestion	Completed			3015A	10/24/11 11:00	PER		
Inorganics								
Cyanide	0.102	mg/L	0.005	335.4/4500-CN-E	10/17/11 11:56	JDP	57-12-5	
Total Suspended Solids	1	mg/L	1	2540 D	10/18/11 14:15	DJS		
Metals								
Antimony	0.107	mg/L	0.005	200.8	10/24/11 03:52	PER	7440-36-0	
Arsenic	0.121	mg/L	0.002	200.8	10/24/11 03:52	PER	7440-38-2	
Barium	0.216	mg/L	0.005	200.8	10/24/11 03:52	PER	7440-39-3	
Beryllium	0.100	mg/L	0.001	200.8	10/24/11 03:52	PER	7440-41-7	
Cadmium	0.105	mg/L	0.0005	200.8	10/24/11 03:52	PER	7440-43-9	
Chromium	0.106	mg/L	0.005	200.8	10/24/11 03:52	PER	7440-47-3	
Cobalt	0.101	mg/L	0.005	200.8	10/24/11 03:52	PER	7440-48-4	
Copper	0.098	mg/L	0.004	200.8	10/24/11 03:52	PER	7440-50-8	
Lead	0.097	mg/L	0.003	200.8	10/24/11 03:52	PER	7439-92-1	
Manganese	0.127	mg/L	0.005	200.8	10/24/11 03:52	PER	7439-96-5	
Nickel	0.101	mg/L	0.005	200.8	10/24/11 03:52	PER	7440-02-0	
Selenium	0.130	mg/L	0.005	200.8	10/24/11 03:52	PER	7782-49-2	
Silver	0.0965	mg/L	0.0005	200.8	10/24/11 03:52	PER	7440-22-4	
Thallium	0.0957	mg/L	0.00001	200.8	10/24/11 03:52	PER	7440-28-0	
Titanium	0.101	mg/L	0.02	200.8	10/24/11 03:52	PER	7440-32-6	
Vanadium	0.102	mg/L	0.004	200.8	10/24/11 03:52	PER	7440-62-2	
Zinc	0.100	mg/L	0.005	200.8	10/24/11 03:52	PER	7440-66-6	
Organics - Semi-Volatiles								
Semi-Volatile Organics - MDEQ								
Acenaphthene	59	ug/L	5	8270C	10/18/11 18:16	PL	83-32-9	1
Acenaphthylene	61	ug/L	5	8270C	10/18/11 18:16	PL	208-96-8	1
Anthracene	64	ug/L	5	8270C	10/18/11 18:16	PL	120-12-7	1
Benzo(a)anthracene	65	ug/L	1	8270C	10/18/11 18:16	PL	56-55-3	1
Benzo(b)fluoranthene	72	ug/L	1	8270C	10/18/11 18:16	PL	205-99-2	1
Benzo(k)fluoranthene	69	ug/L	1	8270C	10/18/11 18:16	PL	207-08-9	1
Benzo(ghi)perylene	41	ug/L	1	8270C	10/18/11 18:16	PL	191-24-2	1
Benzo(a)pyrene	60	ug/L	1	8270C	10/18/11 18:16	PL	50-32-8	1
bis(2-Chloroethoxy)methane	56	ug/L	5	8270C	10/18/11 18:16	PL	111-91-1	1
bis(2-Chloroethyl)ether	54	ug/L	5	8270C	10/18/11 18:16	PL	111-44-4	1

1-Wet Weight Spike: 0.055 mg/L

Lab Sample ID: S50339.09 (continued)
Sample Tag: MP010_10122011 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
bis(2-Chloroisopropyl)ether	51	ug/L	5	8270C	10/18/11 18:16	PL	108-60-1	1
bis(2-Ethylhexyl)phthalate	78	ug/L	5	8270C	10/18/11 18:16	PL	117-81-7	1
4-Bromophenyl phenyl ether	64	ug/L	5	8270C	10/18/11 18:16	PL	101-55-3	1
Butyl benzyl phthalate	75	ug/L	5	8270C	10/18/11 18:16	PL	85-68-7	1
4-Chloroaniline	36	ug/L	10	8270C	10/18/11 18:16	PL	106-47-8	1
2-Chloronaphthalene	58	ug/L	5	8270C	10/18/11 18:16	PL	91-58-7	1
4-Chloro-3-methylphenol	60	ug/L	5	8270C	10/18/11 18:16	PL	59-50-7	1
2-Chlorophenol	55	ug/L	10	8270C	10/18/11 18:16	PL	95-57-8	1
4-Chlorophenyl phenyl ether	62	ug/L	5	8270C	10/18/11 18:16	PL	7005-72-3	1
Chrysene	78	ug/L	1	8270C	10/18/11 18:16	PL	218-01-9	1
p,m-Cresol	89	ug/L	20	8270C	10/18/11 18:16	PL	3/4-Cresol	1
o-Cresol	51	ug/L	10	8270C	10/18/11 18:16	PL	95-48-7	1
Dibenzo(ah)anthracene	58	ug/L	2	8270C	10/18/11 18:16	PL	53-70-3	1
Dibenzofuran	62	ug/L	4	8270C	10/18/11 18:16	PL	132-64-9	1
di-n-Butyl phthalate	70	ug/L	5	8270C	10/18/11 18:16	PL	84-74-2	1
1,2-Dichlorobenzene	51	ug/L	1	8270C	10/18/11 18:16	PL	95-50-1	1
1,3-Dichlorobenzene	48	ug/L	1	8270C	10/18/11 18:16	PL	541-73-1	1
1,4-Dichlorobenzene	49	ug/L	1	8270C	10/18/11 18:16	PL	106-46-7	1
3,3'-Dichlorobenzidine	11	ug/L	5	8270C	10/18/11 18:16	PL	91-94-1	1
2,4-Dichlorophenol	57	ug/L	10	8270C	10/18/11 18:16	PL	120-83-2	1
Diethyl phthalate	64	ug/L	5	8270C	10/18/11 18:16	PL	84-66-2	1
2,4-Dimethylphenol	60	ug/L	5	8270C	10/18/11 18:16	PL	105-67-9	1
Dimethyl phthalate	63	ug/L	5	8270C	10/18/11 18:16	PL	131-11-3	1
4,6-Dinitro-2-methylphenol	51	ug/L	20	8270C	10/18/11 18:16	PL	534-52-1	1
2,4-Dinitrophenol	51	ug/L	25	8270C	10/18/11 18:16	PL	51-28-5	1
2,4-Dinitrotoluene	67	ug/L	5	8270C	10/18/11 18:16	PL	121-14-2	1
2,6-Dinitrotoluene	65	ug/L	5	8270C	10/18/11 18:16	PL	606-20-2	1
1,2-Diphenylhydrazine	73	ug/L	5	8270C	10/18/11 18:16	PL	122-66-7	1
di-n-Octyl phthalate	102	ug/L	5	8270C	10/18/11 18:16	PL	117-84-0	1
Fluoranthene	67	ug/L	1	8270C	10/18/11 18:16	PL	206-44-0	1
Fluorene	63	ug/L	5	8270C	10/18/11 18:16	PL	86-73-7	1
Hexachlorobenzene	61	ug/L	5	8270C	10/18/11 18:16	PL	118-74-1	1
Hexachlorobutadiene	52	ug/L	10	8270C	10/18/11 18:16	PL	87-68-3	1
Hexachlorocyclopentadiene	39	ug/L	5	8270C	10/18/11 18:16	PL	77-47-4	1
Hexachloroethane	47	ug/L	5	8270C	10/18/11 18:16	PL	67-72-1	1
Indeno(1,2,3-cd)pyrene	54	ug/L	2	8270C	10/18/11 18:16	PL	193-39-5	1
Isophorone	61	ug/L	5	8270C	10/18/11 18:16	PL	78-59-1	1
2-Methylnaphthalene	57	ug/L	5	8270C	10/18/11 18:16	PL	91-57-6	1
Naphthalene	55	ug/L	5	8270C	10/18/11 18:16	PL	91-20-3	1
2-Nitroaniline	63	ug/L	25	8270C	10/18/11 18:16	PL	88-74-4	1
3-Nitroaniline	43	ug/L	25	8270C	10/18/11 18:16	PL	99-09-2	1
4-Nitroaniline	60	ug/L	25	8270C	10/18/11 18:16	PL	100-01-6	1
Nitrobenzene	56	ug/L	5	8270C	10/18/11 18:16	PL	98-95-3	1
2-Nitrophenol	58	ug/L	5	8270C	10/18/11 18:16	PL	88-75-5	1
4-Nitrophenol	47	ug/L	25	8270C	10/18/11 18:16	PL	100-02-7	1
N-Nitrosodiphenylamine	33	ug/L	5	8270C	10/18/11 18:16	PL	86-30-6	1
N-Nitrosodi-n-propylamine	56	ug/L	5	8270C	10/18/11 18:16	PL	621-64-7	1
Pentachlorophenol	67	ug/L	5	8270C	10/18/11 18:16	PL	87-86-5	1

1-Wet Weight Spike: 0.055 mg/L

Lab Sample ID: S50339.09 (continued)
Sample Tag: MP010_10122011 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Phenanthrene	62	ug/L	2	8270C	10/18/11 18:16	PL	85-01-8	1
Phenol	34	ug/L	5	8270C	10/18/11 18:16	PL	108-95-2	1
Pyrene	68	ug/L	5	8270C	10/18/11 18:16	PL	129-00-0	1
1,2,4-Trichlorobenzene	53	ug/L	5	8270C	10/18/11 18:16	PL	120-82-1	1
2,4,5-Trichlorophenol	64	ug/L	5	8270C	10/18/11 18:16	PL	95-95-4	1
2,4,6-Trichlorophenol	61	ug/L	4	8270C	10/18/11 18:16	PL	88-06-2	1
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	52	ug/L	10	8260B	10/20/11 17:38	WAT	60-29-7	2
Acetone	Not detected	ug/L	50	8260B	10/20/11 17:38	WAT	67-64-1	2
Methyl iodide	50	ug/L	1	8260B	10/20/11 17:38	WAT	74-88-4	2
Carbon disulfide	50	ug/L	5	8260B	10/20/11 17:38	WAT	75-15-0	2
tert-Methyl butyl ether (MTBE)	53	ug/L	5	8260B	10/20/11 17:38	WAT	1634-04-4	2
Acrylonitrile	56	ug/L	2	8260B	10/20/11 17:38	WAT	107-13-1	2
2-Butanone (MEK)	34	ug/L	25	8260B	10/20/11 17:38	WAT	78-93-3	2
Dichlorodifluoromethane	25	ug/L	5	8260B	10/20/11 17:38	WAT	75-71-8	2
Chloromethane	36	ug/L	5	8260B	10/20/11 17:38	WAT	74-87-3	2
Vinyl chloride	40	ug/L	1	8260B	10/20/11 17:38	WAT	75-01-4	2
Bromomethane	56	ug/L	5	8260B	10/20/11 17:38	WAT	74-83-9	2
Chloroethane	60	ug/L	5	8260B	10/20/11 17:38	WAT	75-00-3	2
Trichlorofluoromethane	52	ug/L	1	8260B	10/20/11 17:38	WAT	75-69-4	2
1,1-Dichloroethene	50	ug/L	1	8260B	10/20/11 17:38	WAT	75-35-4	2
Methylene chloride	51	ug/L	5	8260B	10/20/11 17:38	WAT	75-09-2	2
trans-1,2-Dichloroethene	53	ug/L	1	8260B	10/20/11 17:38	WAT	156-60-5	2
1,1-Dichloroethane	54	ug/L	1	8260B	10/20/11 17:38	WAT	75-34-3	2
cis-1,2-Dichloroethene	56	ug/L	1	8260B	10/20/11 17:38	WAT	156-59-2	2
Tetrahydrofuran	Not detected	ug/L	90	8260B	10/20/11 17:38	WAT	109-99-9	2
Chloroform	55	ug/L	1	8260B	10/20/11 17:38	WAT	67-66-3	2
Bromochloromethane	55	ug/L	1	8260B	10/20/11 17:38	WAT	74-97-5	2
1,1,1-Trichloroethane	56	ug/L	1	8260B	10/20/11 17:38	WAT	71-55-6	2
4-Methyl-2-pentanone (MIBK)	52	ug/L	50	8260B	10/20/11 17:38	WAT	108-10-1	2
2-Hexanone	Not detected	ug/L	50	8260B	10/20/11 17:38	WAT	591-78-6	2
Carbon tetrachloride	54	ug/L	1	8260B	10/20/11 17:38	WAT	56-23-5	2
Benzene	53	ug/L	1	8260B	10/20/11 17:38	WAT	71-43-2	2
1,2-Dichloroethane	51	ug/L	1	8260B	10/20/11 17:38	WAT	107-06-2	2
Trichloroethene	53	ug/L	1	8260B	10/20/11 17:38	WAT	79-01-6	2
1,2-Dichloropropane	56	ug/L	1	8260B	10/20/11 17:38	WAT	78-87-5	2
Bromodichloromethane	55	ug/L	1	8260B	10/20/11 17:38	WAT	75-27-4	2
Dibromomethane	53	ug/L	5	8260B	10/20/11 17:38	WAT	74-95-3	2
cis-1,3-Dichloropropene	56	ug/L	1	8260B	10/20/11 17:38	WAT	10061-01-5	2
Toluene	55	ug/L	1	8260B	10/20/11 17:38	WAT	108-88-3	2
trans-1,3-Dichloropropene	57	ug/L	1	8260B	10/20/11 17:38	WAT	10061-02-6	2
1,1,2-Trichloroethane	55	ug/L	1	8260B	10/20/11 17:38	WAT	79-00-5	2
Tetrachloroethene	53	ug/L	1	8260B	10/20/11 17:38	WAT	127-18-4	2
trans-1,4-Dichloro-2-butene	42	ug/L	1	8260B	10/20/11 17:38	WAT	110-57-6	2
Dibromochloromethane	55	ug/L	5	8260B	10/20/11 17:38	WAT	124-48-1	2

1-Wet Weight Spike: 0.055 mg/L
2-Spiked at 50ug/l

Lab Sample ID: S50339.09 (continued)
Sample Tag: MP010_10122011 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromoethane	52	ug/L	1	8260B	10/20/11 17:38	WAT	106-93-4	1
Chlorobenzene	54	ug/L	1	8260B	10/20/11 17:38	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	54	ug/L	1	8260B	10/20/11 17:38	WAT	630-20-6	1
Ethylbenzene	54	ug/L	1	8260B	10/20/11 17:38	WAT	100-41-4	1
p,m-Xylene	107	ug/L	2	8260B	10/20/11 17:38	WAT		1
o-Xylene	55	ug/L	1	8260B	10/20/11 17:38	WAT	95-47-6	1
Styrene	51	ug/L	1	8260B	10/20/11 17:38	WAT	100-42-5	1
Isopropylbenzene	54	ug/L	5	8260B	10/20/11 17:38	WAT	98-82-8	1
Bromoform	49	ug/L	1	8260B	10/20/11 17:38	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	54	ug/L	1	8260B	10/20/11 17:38	WAT	79-34-5	1
1,2,3-Trichloropropane	54	ug/L	1	8260B	10/20/11 17:38	WAT	96-18-4	1
n-Propylbenzene	55	ug/L	1	8260B	10/20/11 17:38	WAT	103-65-1	1
Bromobenzene	53	ug/L	1	8260B	10/20/11 17:38	WAT	108-86-1	1
1,3,5-Trimethylbenzene	54	ug/L	1	8260B	10/20/11 17:38	WAT	108-67-8	1
tert-Butylbenzene	53	ug/L	1	8260B	10/20/11 17:38	WAT	98-06-6	1
1,2,4-Trimethylbenzene	56	ug/L	1	8260B	10/20/11 17:38	WAT	95-63-6	1
sec-Butylbenzene	55	ug/L	1	8260B	10/20/11 17:38	WAT	135-98-8	1
p-Isopropyltoluene	57	ug/L	5	8260B	10/20/11 17:38	WAT	99-87-6	1
1,3-Dichlorobenzene	54	ug/L	1	8260B	10/20/11 17:38	WAT	541-73-1	1
1,4-Dichlorobenzene	52	ug/L	1	8260B	10/20/11 17:38	WAT	106-46-7	1
1,2-Dichlorobenzene	54	ug/L	1	8260B	10/20/11 17:38	WAT	95-50-1	1
1,2,3-Trimethylbenzene	54	ug/L	1	8260B	10/20/11 17:38	WAT	526-73-8	1
n-Butylbenzene	56	ug/L	1	8260B	10/20/11 17:38	WAT	104-51-8	1
Hexachloroethane	45	ug/L	5	8260B	10/20/11 17:38	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	52	ug/L	5	8260B	10/20/11 17:38	WAT	96-12-8	1
1,2,4-Trichlorobenzene	55	ug/L	5	8260B	10/20/11 17:38	WAT	120-82-1	1
1,2,3-Trichlorobenzene	57	ug/L	5	8260B	10/20/11 17:38	WAT	87-61-6	1
Naphthalene	56	ug/L	5	8260B	10/20/11 17:38	WAT	91-20-3	1
2-Methylnaphthalene	54	ug/L	5	8260B	10/20/11 17:38	WAT	91-57-6	1

1-Spiked at 50ug/l

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50339.10
Sample Tag: MP011_10122011
Collected Date/Time: 10/12/2011 10:45
Matrix: Liquid
COC Reference: BC101211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.1	IR
1	125ml Plastic	HNO3	Yes	5.1	IR
1	125ml Plastic	NaOH	Yes	5.1	IR
1	250ml Plastic	None	Yes	5.1	IR
1	LL Hg Kit	None	Yes	5.1	IR
2	1L Amber	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	10/14/11 17:11	EMR		
Metal Digestion	Completed			3015A	10/24/11 11:00	PER		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	10/17/11 11:58	JDP	57-12-5	
Total Suspended Solids	33	mg/L	1	2540 D	10/18/11 14:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	10/24/11 03:15	PER	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	10/24/11 03:15	PER	7440-38-2	
Barium	0.078	mg/L	0.005	200.8	10/24/11 03:15	PER	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	10/24/11 03:15	PER	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	10/24/11 03:15	PER	7440-43-9	
Chromium	0.008	mg/L	0.005	200.8	10/24/11 03:15	PER	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	10/24/11 03:15	PER	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	10/24/11 03:15	PER	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	10/24/11 03:15	PER	7439-92-1	
Manganese	0.054	mg/L	0.005	200.8	10/24/11 03:15	PER	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	10/24/11 03:15	PER	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	10/24/11 03:15	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	10/24/11 03:15	PER	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	10/24/11 03:15	PER	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	10/24/11 03:15	PER	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	10/24/11 03:15	PER	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	10/24/11 03:15	PER	7440-66-6	
Mercury, Low Level	0.50	ng/L	0.50	1631E	10/26/11 12:00	Fiber	7439-97-6	O
Organics - Semi-Volatiles								
Semi-Volatile Organics - MDEQ								
Acenaphthene	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	208-96-8	
Anthracene	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	10/18/11 18:49	PL	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	10/18/11 18:49	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	10/18/11 18:49	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	10/18/11 18:49	PL	191-24-2	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	10/18/11 18:49	PL	50-32-8	

O-Analysis performed by outside laboratory. See attached report.

Lab Sample ID: S50339.10 (continued)
Sample Tag: MP011_10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
bis(2-Chloroethoxy)methane	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	85-68-7	
4-Chloroaniline	Not detected	ug/L	10	8270C	10/18/11 18:49	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	59-50-7	
2-Chlorophenol	Not detected	ug/L	10	8270C	10/18/11 18:49	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	7005-72-3	
Chrysene	Not detected	ug/L	1	8270C	10/18/11 18:49	PL	218-01-9	
p,m-Cresol	Not detected	ug/L	20	8270C	10/18/11 18:49	PL	3/4-Cresol	
o-Cresol	Not detected	ug/L	10	8270C	10/18/11 18:49	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/L	2	8270C	10/18/11 18:49	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	4	8270C	10/18/11 18:49	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 18:49	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 18:49	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 18:49	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/L	10	8270C	10/18/11 18:49	PL	120-83-2	
Diethyl phthalate	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	20	8270C	10/18/11 18:49	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/L	25	8270C	10/18/11 18:49	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	117-84-0	
Fluoranthene	Not detected	ug/L	1	8270C	10/18/11 18:49	PL	206-44-0	
Fluorene	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/L	10	8270C	10/18/11 18:49	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	8270C	10/18/11 18:49	PL	193-39-5	
Isophorone	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	91-57-6	
Naphthalene	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	91-20-3	
2-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 18:49	PL	88-74-4	
3-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 18:49	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 18:49	PL	100-01-6	
Nitrobenzene	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	98-95-3	
2-Nitrophenol	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	88-75-5	
4-Nitrophenol	Not detected	ug/L	25	8270C	10/18/11 18:49	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	621-64-7	

Lab Sample ID: S50339.10 (continued)
Sample Tag: MP011_10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Pentachlorophenol	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	87-86-5	
Phenanthrene	Not detected	ug/L	2	8270C	10/18/11 18:49	PL	85-01-8	
Phenol	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	108-95-2	
Pyrene	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/L	5	8270C	10/18/11 18:49	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	4	8270C	10/18/11 18:49	PL	88-06-2	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	10/19/11 17:35	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	10/19/11 17:35	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	10/19/11 17:35	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	10/19/11 17:35	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	10/19/11 17:35	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	10/19/11 17:35	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	10/19/11 17:35	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	10/19/11 17:35	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	10/19/11 17:35	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	10/19/11 17:35	WAT	75-00-3	
Trichlorofluoromethane	5	ug/L	1	8260B	10/19/11 17:35	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	10/19/11 17:35	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	75-34-3	
cis-1,2-Dichloroethene	2	ug/L	1	8260B	10/19/11 17:35	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	10/19/11 17:35	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	10/19/11 17:35	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	10/19/11 17:35	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	107-06-2	
Trichloroethene	2	ug/L	1	8260B	10/19/11 17:35	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	10/19/11 17:35	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	10/19/11 17:35	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	106-93-4	

Lab Sample ID: S50339.10 (continued)
Sample Tag: MP011_10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chlorobenzene	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	10/19/11 17:35	WAT		
o-Xylene	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	10/19/11 17:35	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	10/19/11 17:35	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	10/19/11 17:35	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	10/19/11 17:35	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	10/19/11 17:35	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	10/19/11 17:35	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	10/19/11 17:35	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	10/19/11 17:35	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	10/19/11 17:35	WAT	91-57-6	

Lab Sample ID: S50339.11
Sample Tag: Dup001_10122011
Collected Date/Time: 10/12/2011 00:01
Matrix: Liquid
COC Reference: BC101211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.1	IR
1	125ml Plastic	HNO3	Yes	5.1	IR
1	125ml Plastic	NaOH	Yes	5.1	IR
1	250ml Plastic	None	Yes	5.1	IR
2	1L Amber	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	10/14/11 17:11	EMR		
Metal Digestion	Completed			3015A	10/24/11 11:00	PER		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	10/17/11 12:02	JDP	57-12-5	
Total Suspended Solids	16	mg/L	1	2540 D	10/18/11 14:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	10/24/11 03:20	PER	7440-36-0	
Arsenic	0.011	mg/L	0.002	200.8	10/24/11 03:20	PER	7440-38-2	
Barium	0.319	mg/L	0.005	200.8	10/24/11 03:20	PER	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	10/24/11 03:20	PER	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	10/24/11 03:20	PER	7440-43-9	
Chromium	0.012	mg/L	0.005	200.8	10/24/11 03:20	PER	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	10/24/11 03:20	PER	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	10/24/11 03:20	PER	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	10/24/11 03:20	PER	7439-92-1	
Manganese	0.528	mg/L	0.005	200.8	10/24/11 03:20	PER	7439-96-5	
Nickel	0.008	mg/L	0.005	200.8	10/24/11 03:20	PER	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	10/24/11 03:20	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	10/24/11 03:20	PER	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	10/24/11 03:20	PER	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	10/24/11 03:20	PER	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	10/24/11 03:20	PER	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	10/24/11 03:20	PER	7440-66-6	
Organics - Semi-Volatiles								
Semi-Volatile Organics - MDEQ								
Acenaphthene	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	208-96-8	
Anthracene	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	10/18/11 19:23	PL	56-55-3	
Benzo(b)fluoranthene	1	ug/L	1	8270C	10/18/11 19:23	PL	205-99-2	
Benzo(k)fluoranthene	1	ug/L	1	8270C	10/18/11 19:23	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	10/18/11 19:23	PL	191-24-2	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	10/18/11 19:23	PL	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	108-60-1	

Lab Sample ID: S50339.11 (continued)
Sample Tag: Dup001_10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	85-68-7	
4-Chloroaniline	Not detected	ug/L	10	8270C	10/18/11 19:23	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	59-50-7	
2-Chlorophenol	Not detected	ug/L	10	8270C	10/18/11 19:23	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	7005-72-3	
Chrysene	1	ug/L	1	8270C	10/18/11 19:23	PL	218-01-9	
p,m-Cresol	Not detected	ug/L	20	8270C	10/18/11 19:23	PL	3/4-Cresol	
o-Cresol	Not detected	ug/L	10	8270C	10/18/11 19:23	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/L	2	8270C	10/18/11 19:23	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	4	8270C	10/18/11 19:23	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 19:23	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 19:23	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 19:23	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/L	10	8270C	10/18/11 19:23	PL	120-83-2	
Diethyl phthalate	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	20	8270C	10/18/11 19:23	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/L	25	8270C	10/18/11 19:23	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	117-84-0	
Fluoranthene	Not detected	ug/L	1	8270C	10/18/11 19:23	PL	206-44-0	
Fluorene	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/L	10	8270C	10/18/11 19:23	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	8270C	10/18/11 19:23	PL	193-39-5	
Isophorone	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	91-57-6	
Naphthalene	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	91-20-3	
2-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 19:23	PL	88-74-4	
3-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 19:23	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 19:23	PL	100-01-6	
Nitrobenzene	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	98-95-3	
2-Nitrophenol	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	88-75-5	
4-Nitrophenol	Not detected	ug/L	25	8270C	10/18/11 19:23	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	621-64-7	
Pentachlorophenol	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	87-86-5	
Phenanthrene	Not detected	ug/L	2	8270C	10/18/11 19:23	PL	85-01-8	
Phenol	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	108-95-2	

Lab Sample ID: S50339.11 (continued)
Sample Tag: Dup001_10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Pyrene	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/L	5	8270C	10/18/11 19:23	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	4	8270C	10/18/11 19:23	PL	88-06-2	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	10/19/11 17:53	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	10/19/11 17:53	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	10/19/11 17:53	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	10/19/11 17:53	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	10/19/11 17:53	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	10/19/11 17:53	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	10/19/11 17:53	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	10/19/11 17:53	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	10/19/11 17:53	WAT	74-83-9	
Chloroethane	14	ug/L	5	8260B	10/19/11 17:53	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	10/19/11 17:53	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	156-60-5	
1,1-Dichloroethane	11	ug/L	1	8260B	10/19/11 17:53	WAT	75-34-3	
cis-1,2-Dichloroethene	10	ug/L	1	8260B	10/19/11 17:53	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	10/19/11 17:53	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	74-97-5	
1,1,1-Trichloroethane	5	ug/L	1	8260B	10/19/11 17:53	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	10/19/11 17:53	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	10/19/11 17:53	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	107-06-2	
Trichloroethene	2	ug/L	1	8260B	10/19/11 17:53	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	10/19/11 17:53	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	10/19/11 17:53	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	100-41-4	

Lab Sample ID: S50339.11 (continued)
Sample Tag: Dup001_10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
p,m-Xylene	Not detected	ug/L	2	8260B	10/19/11 17:53	WAT		
o-Xylene	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	10/19/11 17:53	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	10/19/11 17:53	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	10/19/11 17:53	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	10/19/11 17:53	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	10/19/11 17:53	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	10/19/11 17:53	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	10/19/11 17:53	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	10/19/11 17:53	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	10/19/11 17:53	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50339.12
Sample Tag: Field Blank10122011
Collected Date/Time: 10/12/2011 09:10
Matrix: Liquid
COC Reference: BC101211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.1	IR
1	125ml Plastic	HNO3	Yes	5.1	IR
1	125ml Plastic	NaOH	Yes	5.1	IR
1	LL Hg Kit	None	Yes	5.1	IR
2	1L Amber	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	10/14/11 17:11	EMR		
Metal Digestion	Completed			3015A	10/24/11 11:00	PER		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	10/17/11 12:04	JDP	57-12-5	
Metals								
Antimony	Not detected	mg/L	0.005	200.8	10/24/11 01:22	PER	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	10/24/11 01:22	PER	7440-38-2	
Barium	Not detected	mg/L	0.005	200.8	10/24/11 01:22	PER	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	10/24/11 01:22	PER	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	10/24/11 01:22	PER	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	10/24/11 01:22	PER	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	10/24/11 01:22	PER	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	10/24/11 01:22	PER	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	10/24/11 01:22	PER	7439-92-1	
Manganese	Not detected	mg/L	0.005	200.8	10/24/11 01:22	PER	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	10/24/11 01:22	PER	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	10/24/11 01:22	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	10/24/11 01:22	PER	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	10/24/11 01:22	PER	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	10/24/11 01:22	PER	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	10/24/11 01:22	PER	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	10/24/11 01:22	PER	7440-66-6	
Mercury, Low Level	Not detected	ng/L	0.50	1631E	10/26/11 12:00	Fiber	7439-97-6	O
Organics - Semi-Volatiles								
Semi-Volatile Organics - MDEQ								
Acenaphthene	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	208-96-8	
Anthracene	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	10/18/11 19:56	PL	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	10/18/11 19:56	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	10/18/11 19:56	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	10/18/11 19:56	PL	191-24-2	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	10/18/11 19:56	PL	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	111-44-4	

O-Analysis performed by outside laboratory. See attached report.

Lab Sample ID: S50339.12 (continued)
Sample Tag: Field Blank10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
bis(2-Chloroisopropyl)ether	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	85-68-7	
4-Chloroaniline	Not detected	ug/L	10	8270C	10/18/11 19:56	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	59-50-7	
2-Chlorophenol	Not detected	ug/L	10	8270C	10/18/11 19:56	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	7005-72-3	
Chrysene	Not detected	ug/L	1	8270C	10/18/11 19:56	PL	218-01-9	
p,m-Cresol	Not detected	ug/L	20	8270C	10/18/11 19:56	PL	3/4-Cresol	
o-Cresol	Not detected	ug/L	10	8270C	10/18/11 19:56	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/L	2	8270C	10/18/11 19:56	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	4	8270C	10/18/11 19:56	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 19:56	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 19:56	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 19:56	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/L	10	8270C	10/18/11 19:56	PL	120-83-2	
Diethyl phthalate	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	20	8270C	10/18/11 19:56	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/L	25	8270C	10/18/11 19:56	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	117-84-0	
Fluoranthene	Not detected	ug/L	1	8270C	10/18/11 19:56	PL	206-44-0	
Fluorene	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/L	10	8270C	10/18/11 19:56	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	8270C	10/18/11 19:56	PL	193-39-5	
Isophorone	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	91-57-6	
Naphthalene	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	91-20-3	
2-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 19:56	PL	88-74-4	
3-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 19:56	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 19:56	PL	100-01-6	
Nitrobenzene	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	98-95-3	
2-Nitrophenol	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	88-75-5	
4-Nitrophenol	Not detected	ug/L	25	8270C	10/18/11 19:56	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	621-64-7	
Pentachlorophenol	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	87-86-5	
Phenanthrene	Not detected	ug/L	2	8270C	10/18/11 19:56	PL	85-01-8	

Lab Sample ID: S50339.12 (continued)
Sample Tag: Field Blank10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Phenol	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	108-95-2	
Pyrene	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/L	5	8270C	10/18/11 19:56	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	4	8270C	10/18/11 19:56	PL	88-06-2	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	10/19/11 18:11	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	10/19/11 18:11	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	10/19/11 18:11	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	10/19/11 18:11	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	10/19/11 18:11	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	10/19/11 18:11	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	10/19/11 18:11	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	10/19/11 18:11	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	10/19/11 18:11	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	10/19/11 18:11	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	10/19/11 18:11	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	10/19/11 18:11	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	10/19/11 18:11	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	10/19/11 18:11	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	10/19/11 18:11	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	10/19/11 18:11	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	630-20-6	

Lab Sample ID: S50339.12 (continued)
Sample Tag: Field Blank10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Ethylbenzene	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	10/19/11 18:11	WAT		
o-Xylene	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	10/19/11 18:11	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	10/19/11 18:11	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	10/19/11 18:11	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	10/19/11 18:11	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	10/19/11 18:11	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	10/19/11 18:11	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	10/19/11 18:11	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	10/19/11 18:11	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	10/19/11 18:11	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50339.13
Sample Tag: Equip Blank10122011
Collected Date/Time: 10/12/2011 09:00
Matrix: Liquid
COC Reference: BC101211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.1	IR
1	125ml Plastic	HNO3	Yes	5.1	IR
1	125ml Plastic	NaOH	Yes	5.1	IR
1	LL Hg Kit	None	Yes	5.1	IR
2	1L Amber	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	10/14/11 17:11	EMR		
Metal Digestion	Completed			3015A	10/24/11 11:00	PER		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	10/17/11 12:06	JDP	57-12-5	
Metals								
Antimony	Not detected	mg/L	0.005	200.8	10/24/11 01:24	PER	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	10/24/11 01:24	PER	7440-38-2	
Barium	Not detected	mg/L	0.005	200.8	10/24/11 01:24	PER	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	10/24/11 01:24	PER	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	10/24/11 01:24	PER	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	10/24/11 01:24	PER	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	10/24/11 01:24	PER	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	10/24/11 01:24	PER	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	10/24/11 01:24	PER	7439-92-1	
Manganese	Not detected	mg/L	0.005	200.8	10/24/11 01:24	PER	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	10/24/11 01:24	PER	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	10/24/11 01:24	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	10/24/11 01:24	PER	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	10/24/11 01:24	PER	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	10/24/11 01:24	PER	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	10/24/11 01:24	PER	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	10/24/11 01:24	PER	7440-66-6	
Mercury, Low Level	Not detected	ng/L	0.50	1631E	10/26/11 12:00	Fiber	7439-97-6	O
Organics - Semi-Volatiles								
Semi-Volatile Organics - MDEQ								
Acenaphthene	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	208-96-8	
Anthracene	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	10/18/11 20:30	PL	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	10/18/11 20:30	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	10/18/11 20:30	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	10/18/11 20:30	PL	191-24-2	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	10/18/11 20:30	PL	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	111-44-4	

O-Analysis performed by outside laboratory. See attached report.

Lab Sample ID: S50339.13 (continued)
Sample Tag: Equip Blank10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
bis(2-Chloroisopropyl)ether	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	85-68-7	
4-Chloroaniline	Not detected	ug/L	10	8270C	10/18/11 20:30	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	59-50-7	
2-Chlorophenol	Not detected	ug/L	10	8270C	10/18/11 20:30	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	7005-72-3	
Chrysene	Not detected	ug/L	1	8270C	10/18/11 20:30	PL	218-01-9	
p,m-Cresol	Not detected	ug/L	20	8270C	10/18/11 20:30	PL	3/4-Cresol	
o-Cresol	Not detected	ug/L	10	8270C	10/18/11 20:30	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/L	2	8270C	10/18/11 20:30	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	4	8270C	10/18/11 20:30	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 20:30	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 20:30	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 20:30	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/L	10	8270C	10/18/11 20:30	PL	120-83-2	
Diethyl phthalate	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	20	8270C	10/18/11 20:30	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/L	25	8270C	10/18/11 20:30	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	117-84-0	
Fluoranthene	Not detected	ug/L	1	8270C	10/18/11 20:30	PL	206-44-0	
Fluorene	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/L	10	8270C	10/18/11 20:30	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	8270C	10/18/11 20:30	PL	193-39-5	
Isophorone	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	91-57-6	
Naphthalene	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	91-20-3	
2-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 20:30	PL	88-74-4	
3-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 20:30	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 20:30	PL	100-01-6	
Nitrobenzene	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	98-95-3	
2-Nitrophenol	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	88-75-5	
4-Nitrophenol	Not detected	ug/L	25	8270C	10/18/11 20:30	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	621-64-7	
Pentachlorophenol	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	87-86-5	
Phenanthrene	Not detected	ug/L	2	8270C	10/18/11 20:30	PL	85-01-8	

Lab Sample ID: S50339.13 (continued)
Sample Tag: Equip Blank10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Phenol	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	108-95-2	
Pyrene	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/L	5	8270C	10/18/11 20:30	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	4	8270C	10/18/11 20:30	PL	88-06-2	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	10/19/11 18:29	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	10/19/11 18:29	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	10/19/11 18:29	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	10/19/11 18:29	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	10/19/11 18:29	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	10/19/11 18:29	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	10/19/11 18:29	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	10/19/11 18:29	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	10/19/11 18:29	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	10/19/11 18:29	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	10/19/11 18:29	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	10/19/11 18:29	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	10/19/11 18:29	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	10/19/11 18:29	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	10/19/11 18:29	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	10/19/11 18:29	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	630-20-6	

Lab Sample ID: S50339.13 (continued)
Sample Tag: Equip Blank10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Ethylbenzene	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	10/19/11 18:29	WAT		
o-Xylene	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	10/19/11 18:29	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	10/19/11 18:29	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	10/19/11 18:29	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	10/19/11 18:29	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	10/19/11 18:29	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	10/19/11 18:29	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	10/19/11 18:29	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	10/19/11 18:29	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	10/19/11 18:29	WAT	91-57-6	

Lab Sample ID: S50339.14
Sample Tag: Trip Blank10122011
Collected Date/Time: 10/12/2011 00:01
Matrix: Liquid
COC Reference: BC101211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	10/20/11 14:40	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	10/20/11 14:40	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	10/20/11 14:40	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	10/20/11 14:40	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	10/20/11 14:40	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	10/20/11 14:40	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	10/20/11 14:40	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	10/20/11 14:40	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	10/20/11 14:40	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	10/20/11 14:40	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	10/20/11 14:40	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	10/20/11 14:40	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	10/20/11 14:40	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	10/20/11 14:40	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	10/20/11 14:40	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	10/20/11 14:40	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	100-41-4	

Lab Sample ID: S50339.14 (continued)
Sample Tag: Trip Blank10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
p,m-Xylene	Not detected	ug/L	2	8260B	10/20/11 14:40	WAT		
o-Xylene	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	10/20/11 14:40	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	10/20/11 14:40	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	10/20/11 14:40	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	10/20/11 14:40	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	10/20/11 14:40	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	10/20/11 14:40	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	10/20/11 14:40	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	10/20/11 14:40	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	10/20/11 14:40	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50339.15
Sample Tag: MP007_10122011
Collected Date/Time: 10/12/2011 10:00
Matrix: Liquid
COC Reference: BC101211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	5.1	IR
1	125ml Plastic	HNO3	Yes	5.1	IR
1	125ml Plastic	NaOH	Yes	5.1	IR
1	250ml Plastic	None	Yes	5.1	IR
1	LL Hg Kit	None	Yes	5.1	IR
2	1L Amber	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
BNA Extraction	Completed			3510C	10/14/11 17:11	EMR		
Metal Digestion	Completed			3015A	10/24/11 11:00	PER		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	10/17/11 12:08	JDP	57-12-5	
Total Suspended Solids	10	mg/L	1	2540 D	10/18/11 14:15	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	10/24/11 03:35	PER	7440-36-0	
Arsenic	0.002	mg/L	0.002	200.8	10/24/11 03:35	PER	7440-38-2	
Barium	0.076	mg/L	0.005	200.8	10/24/11 03:35	PER	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	10/24/11 03:35	PER	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	10/24/11 03:35	PER	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	10/24/11 03:35	PER	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	10/24/11 03:35	PER	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	10/24/11 03:35	PER	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	10/24/11 03:35	PER	7439-92-1	
Manganese	0.028	mg/L	0.005	200.8	10/24/11 03:35	PER	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	10/24/11 03:35	PER	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	10/24/11 03:35	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	10/24/11 03:35	PER	7440-22-4	
Thallium	Not detected	mg/L	0.001	200.8	10/24/11 03:35	PER	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	10/24/11 03:35	PER	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	10/24/11 03:35	PER	7440-62-2	
Zinc	0.012	mg/L	0.005	200.8	10/24/11 03:35	PER	7440-66-6	
Mercury, Low Level	28	ng/L	0.50	1631E	10/26/11 12:00	Fiber	7439-97-6	O
Organics - Semi-Volatiles								
Semi-Volatile Organics - MDEQ								
Acenaphthene	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	208-96-8	
Anthracene	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	10/18/11 21:03	PL	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	10/18/11 21:03	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	10/18/11 21:03	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	10/18/11 21:03	PL	191-24-2	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	10/18/11 21:03	PL	50-32-8	

O-Analysis performed by outside laboratory. See attached report.

Lab Sample ID: S50339.15 (continued)
Sample Tag: MP007_10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
bis(2-Chloroethoxy)methane	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	85-68-7	
4-Chloroaniline	Not detected	ug/L	10	8270C	10/18/11 21:03	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	59-50-7	
2-Chlorophenol	Not detected	ug/L	10	8270C	10/18/11 21:03	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	7005-72-3	
Chrysene	Not detected	ug/L	1	8270C	10/18/11 21:03	PL	218-01-9	
p,m-Cresol	Not detected	ug/L	20	8270C	10/18/11 21:03	PL	3/4-Cresol	
o-Cresol	Not detected	ug/L	10	8270C	10/18/11 21:03	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/L	2	8270C	10/18/11 21:03	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	4	8270C	10/18/11 21:03	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 21:03	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 21:03	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8270C	10/18/11 21:03	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/L	10	8270C	10/18/11 21:03	PL	120-83-2	
Diethyl phthalate	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	20	8270C	10/18/11 21:03	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/L	25	8270C	10/18/11 21:03	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	117-84-0	
Fluoranthene	Not detected	ug/L	1	8270C	10/18/11 21:03	PL	206-44-0	
Fluorene	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/L	10	8270C	10/18/11 21:03	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	8270C	10/18/11 21:03	PL	193-39-5	
Isophorone	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	91-57-6	
Naphthalene	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	91-20-3	
2-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 21:03	PL	88-74-4	
3-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 21:03	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	25	8270C	10/18/11 21:03	PL	100-01-6	
Nitrobenzene	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	98-95-3	
2-Nitrophenol	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	88-75-5	
4-Nitrophenol	Not detected	ug/L	25	8270C	10/18/11 21:03	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	621-64-7	

Lab Sample ID: S50339.15 (continued)
Sample Tag: MP007_10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Pentachlorophenol	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	87-86-5	
Phenanthrene	Not detected	ug/L	2	8270C	10/18/11 21:03	PL	85-01-8	
Phenol	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	108-95-2	
Pyrene	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/L	5	8270C	10/18/11 21:03	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	4	8270C	10/18/11 21:03	PL	88-06-2	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	10/20/11 15:00	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	10/20/11 15:00	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	10/20/11 15:00	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	10/20/11 15:00	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	10/20/11 15:00	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	10/20/11 15:00	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	10/20/11 15:00	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	10/20/11 15:00	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	10/20/11 15:00	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	10/20/11 15:00	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	10/20/11 15:00	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	10/20/11 15:00	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	10/20/11 15:00	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	10/20/11 15:00	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	10/20/11 15:00	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	10/20/11 15:00	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	106-93-4	

Lab Sample ID: S50339.15 (continued)
Sample Tag: MP007_10122011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chlorobenzene	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	10/20/11 15:00	WAT		
o-Xylene	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	10/20/11 15:00	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	10/20/11 15:00	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	10/20/11 15:00	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	10/20/11 15:00	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	10/20/11 15:00	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	10/20/11 15:00	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	10/20/11 15:00	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	10/20/11 15:00	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	10/20/11 15:00	WAT	91-57-6	

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID: BC101211.1

Contact & Company Name: Mike Brennan, Micki Maki, Tony Maffeo	Telephone: 810.225.1900
Address: 10559 Citation DR, Suite 100	Fax: 810-229-8837
City State Zip: Brighton, MI 48116	E-mail Address:
Project Name/Location (City, State): Buick City/ Flint, MI	Project #: B0084410.2011.00801
Sampler's Printed Name: D. Newcom, A. O'Neil	Sampler's Signature:

Sample ID	Collection Date	Collection Time	Type Comp	Type Grab	Matrix	Total Suspended Solids	Cyanide	Metals (Ag, As, Ba, Be, Cd, Cr (total), Co, Cu, Mn, Ni, Pb, Sb, Tl, Se, V, and Zn)	SVOCs	VOCs	LL Hg			REMARKS
						E	C	D	E	B	E			
						1	1	1	2	2	3			
						10	4	3	2	1	1			
MP001_10122011	10/12/11	1130		x	w	x	x	x	x	x	x			
MP002_10122011	10/12/11	1150		x	w	x	x	x	x	x	x			
MP003_10122011	10/12/11	1300		x	w	x	x	x	x	x	x			
MP005_10122011	10/12/11	1245		x	w	x	x	x	x		x			
MP006_10122011	10/12/11	1100		x	w	x	x	x		x	x			
MP007_10122011	10/12/11	1000		x	w	x	x	x	x	x	x			
MP009_10122011	10/12/11	1230		x	w	x	x	x	x	x	x			
MP010_10122011	10/12/11	1030		x	w	x	x	x	x	x	x			MS/MSD - no MS/MSD for LL Hg
MP011_10122011	10/12/11	1045		x	w	x	x	x	x	x	x			
Dup001_10122011	10/12/11	na		x	w	x	x	x	x	x				
Field_Blank_10122011	10/12/11	0910		x	w		x	x	x	x	x			
Equip_Blank_10122011	10/12/11	0900		x	w		x	x	x	x	x			
Trip_Blank_10122011	na	na		x	w					x				Lab Filled

50359
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KEY

Preservation Key: A. H2SO4, B. HCL, C. NaOH, D. HNO3, E. None, F, G, H.

Container Information Key: 1. 40 mL VOA, 2. 1 L Amber, 3. 125 mL Plastic, 4. 250 mL Plastic, 5. 500 mL Plastic, 6. 1 L Plastic, 7. 2 oz. Glass, 8. 4 oz. Glass, 9. 8 oz. Glass, 10. Other

Matrix Key: SE = Sediment, SO = Soil, A = Air, W = Water / Oil, Sw = Sludge, SW = Surface

Special Instructions/Comments: Invoice to: Ms. Monica Wellingford, Racer Trust, 2930 Ecorse Road, Ypsilanti, MI 48198. (313) 486.2928, P.O.No: FLN0035-600110 - Please also send copy of invoicing to Micki Maki (ARCADIS). E-mails: michael.brennan@arcadis-us.com; micki.maki@arcadis-us.com; tony.maffeo@arcadis-us.com

Special QA/QC Instructions (✓): Level II and EDD

Laboratory Information and Receipt	Relinquished By	Received By	Laboratory Received By
Lab Name: Merit	Printed Name: D. Newcom	Printed Name: Craig Gauthier	Printed Name: Paula Straw
☑ Cooler packed with ice (✓)	Signature:	Signature:	Signature:
Specify Turnaround Requirements: Std TAT	Firm: ARCADIS	Firm: Merit	Firm: Merit
Fed-Ex Tracking #	Date/Time: 10/12/11 1355	Date/Time: 10-12-11 1355	Date/Time: 10-12-11 1500

Cooler Custody Seal: ☐ Intact ☐ Not Used

Receipt Signature:

Condition/Cooler Temp:

Fibertec
environmental
services

Friday, October 28, 2011

Fibertec Project Number:	46802
Project Identification:	50339 /
Submittal Date:	10/12/2011

Ms. Paula Shaw
Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Dear Ms. Shaw,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note samples will be disposed of 30 days after reporting date.

Samples were analyzed by Kar Laboratory.

As discussed, the MS and MSD samples were not received.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

Daryl P. Strandbergh
Laboratory Director

DPS/kc

Enclosures

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**50339.01**	Chain of Custody:	**62697**
Client Project Name:	**50339**	Sample No:	**1**	Collect Date:	**10/12/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 46802-001** **Matrix: Ground Water** **Analyst: KL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**210**		ng/L	0.50	1.0	10/25/11	NA	10/27/11	NA

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**50339.02**	Chain of Custody:	**62697**
Client Project Name:	**50339**	Sample No:	**2**	Collect Date:	**10/12/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 46802-002** **Matrix: Ground Water** **Analyst: KL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**11**		ng/L	0.50	1.0	10/25/11	NA	10/26/11	NA

Analytical Laboratory Report
Laboratory Project Number: 46802
Laboratory Sample Number: 46802-003

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**50339.03**	Chain of Custody:	**62697**
Client Project Name:	**50339**	Sample No:	**3**	Collect Date:	**10/12/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 46802-003** **Matrix: Ground Water** **Analyst: KL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**2.5**		ng/L	0.50	1.0	10/25/11	NA	10/26/11	NA

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8660 S. Mackinaw Trail *Cadillac, MI 49601* *T: (231) 775-8368* *F: (231) 775-8584*

lab@fibertec.us

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**50339.04**	Chain of Custody:	**62697**
Client Project Name:	**50339**	Sample No:	**4**	Collect Date:	**10/12/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 46802-004** **Matrix: Ground Water** **Analyst: KL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	U		ng/L	0.50	1.0	10/25/11	NA	10/26/11	NA

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**50339.05**	Chain of Custody:	**62697**
Client Project Name:	**50339**	Sample No:	**5**	Collect Date:	**10/12/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 46802-005** **Matrix: Ground Water** **Analyst: KL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**0.80**		ng/L	0.50	1.0	10/25/11	NA	10/26/11	NA

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**50339.06**	Chain of Custody:	**62697**
Client Project Name:	**50339**	Sample No:	**6**	Collect Date:	**10/12/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 46802-006** **Matrix: Ground Water** **Analyst: KL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**450**		ng/L	0.50	1.0	10/25/11	NA	10/26/11	NA

Analytical Laboratory Report
Laboratory Project Number: 46802
Laboratory Sample Number: 46802-007

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**50339.07**	Chain of Custody:	**62697**
Client Project Name:	**50339**	Sample No:	**7**	Collect Date:	**10/12/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 46802-007** **Matrix: Ground Water** **Analyst: KL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**0.80**		ng/L	0.50	1.0	10/25/11	NA	10/26/11	NA

Analytical Laboratory Report
Laboratory Project Number: 46802
Laboratory Sample Number: 46802-008

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**50339.10**	Chain of Custody:	**62697**
Client Project Name:	**50339**	Sample No:	**8**	Collect Date:	**10/12/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 46802-008** **Matrix: Ground Water** **Analyst: KL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**0.50**		ng/L	0.50	1.0	10/25/11	NA	10/26/11	NA

1914 Holloway Drive *Holt, MI 48842* *T: (517) 699-0345* *F: (517) 699-0388*
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8660 S. Mackinaw Trail *Cadillac, MI 49601* *T: (231) 775-8368* *F: (231) 775-8584*

lab@fibertec.us

Analytical Laboratory Report
Laboratory Project Number: 46802
Laboratory Sample Number: 46802-009

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**50339.12**	Chain of Custody:	**62697**
Client Project Name:	**50339**	Sample No:	**9**	Collect Date:	**10/12/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 46802-009** **Matrix: Ground Water** **Analyst: KL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	U		ng/L	0.50	1.0	10/25/11	NA	10/26/11	NA

1914 Holloway Drive *Holt, MI 48842* *T: (517) 699-0345* *F: (517) 699-0388*
11766 E. Grand River *Brighton, MI 48116* *T: (810) 220-3300* *F: (810) 220-3311*
8660 S. Mackinaw Trail *Cadillac, MI 49601* *T: (231) 775-8368* *F: (231) 775-8584*

lab@fibertec.us

Analytical Laboratory Report
Laboratory Project Number: 46802
Laboratory Sample Number: 46802-010

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**50339.13**	Chain of Custody:	**62697**
Client Project Name:	**50339**	Sample No:	**10**	Collect Date:	**10/12/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 46802-010** **Matrix: Ground Water** **Analyst: KL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	U		ng/L	0.50	1.0	10/25/11	NA	10/26/11	NA

1914 Holloway Drive *Holt, MI 48842* *T: (517) 699-0345* *F: (517) 699-0388*
11766 E. Grand River *Brighton, MI 48116* *T: (810) 220-3300* *F: (810) 220-3311*
8660 S. Mackinaw Trail *Cadillac, MI 49601* *T: (231) 775-8368* *F: (231) 775-8584*

lab@fibertec.us

Client Identification:	**Merit Laboratories, Inc.**	Sample Description:	**50339.15**	Chain of Custody:	**62697**
Client Project Name:	**50339**	Sample No:	**11**	Collect Date:	**10/12/11**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable NN: Parameter not included in NELAC Scope of Analysis.

Mercury by CVAFS, Low-Level, Total (EPA 1631E) **Aliquot ID: 46802-011** **Matrix: Ground Water** **Analyst: KL**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Prep Date	Prep Batch	Analysis Date	Analysis Batch
1 Mercury (NN)	**28**		ng/L	0.50	1.0	10/25/11	NA	10/26/11	NA

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QA limits

Exception Summary:

ACCREDITED IN ACCORDANCE WITH nelac

Accreditation Number:

E-10395

Analytical Laboratory Report

Report ID: S50342.01(01)
Generated on 10/18/2011

Report to

Attention: Beth Nanzer
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 248-994-2314 FAX: 810-229-8837
Email: bethany.nanzer@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S50342.01-S50342.02
Project: B0064410.2011.00801 / Buick City / Flint MI
Collected Date: 10/11/2011
Submitted Date/Time: 10/12/2011 15:00
Sampled by: D.Newcom
P.O. #: B0064410.2011.0

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (2 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S50342.01	MP003A_10112011	Liquid	10/11/2011 12:30
S50342.02	ISCO_BLANK_10112011	Liquid	10/11/2011 13:00

Analytical Laboratory Report

Lab Sample ID: S50342.01
Sample Tag: MP003A_10112011
Collected Date/Time: 10/11/2011 12:30
Matrix: Liquid
COC Reference: BC101111.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	10/14/11 14:01	CCM		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	10/17/11 18:09	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	10/17/11 18:09	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	10/17/11 18:09	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	10/17/11 18:09	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	10/17/11 18:09	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	10/17/11 18:09	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	10/17/11 18:09	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	10/17/11 18:09	JANB	1336-36-3	

Analytical Laboratory Report

Lab Sample ID: S50342.02
Sample Tag: ISCO_BLANK_10112011
Collected Date/Time: 10/11/2011 13:00
Matrix: Liquid
COC Reference: BC101111.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	5.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	10/14/11 14:01	CCM		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	10/17/11 18:30	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	10/17/11 18:30	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	10/17/11 18:30	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	10/17/11 18:30	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	10/17/11 18:30	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	10/17/11 18:30	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	10/17/11 18:30	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	10/17/11 18:30	JANB	1336-36-3	

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID: BC101111.1

Contact & Company Name: Beth Nanzer ARCADIS	Telephone: 810-229-1937
Address: 10559 Citation DR	Fax: 810-229-8837
City State Zip: Brighton, MI 48116	E-mail Address: bethany.nanzer@arcadis-us.com
Project Name/Location (City, State): Buick City/ Flint, MI	Project #: B0064410.3111
Sampler's Printed Name: D. Newcom	Sampler's Signature: D Newcom

PARAMETER ANALYSIS & METHOD

Sample ID	Collection Date	Collection Time	Type Comp	Type Grab	Matrix		Total PCB's								REMARKS
						Preservative	E								
						Filtered									
						# of Containers	2								
						Container Volume	2								
MP003A_10112011	10/11/11	1230	x		w		x								
ISCO_Blank_ 10112011	10/11/11	1300		x	w		x								1 Bottle

Special Instructions/Comments: Invoice to: Ms. Monica Wallingford, Racer Trust, 2930 Ecorse Road, Ypsilanti, MI 48198, (313) 486.2928, P.O.No: MLT1295a - Please also send copy of Invoicing to Micki Maki (ARCADIS).

Special QA/QC Instructions: EDD Requested, Level II, Std TAT

Relinquished by	Received by	Received by
Lab Name: Merit	Printed Name: D. Newcom	Printed Name: Chris Gauthier	Printed Name: Paula
☒ Cooler packed with ice (✓)	Signature: D Newcom	Signature:	Signature: Paula Stan
Specify Turnaround Requirements: Std TAT	Firm: ARCADIS	Firm: Merit	Firm: Merit
Fed-Ex Tracking #:	Date/Time: 10/12/11 1355	Date/Time: 10-12-11 1355	Date/Time: 10-12-11 1500

Analytical Laboratory Report

Revised Report

Report ID: S50389.01(02)
Generated on 10/19/2011
Replaces report S50389.01(01) generated on 10/19/2011

Report to

Attention: Mike Brennan
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S50389.01-S50389.02
Project: B0064410.2011.00801 / Buick City / Flint MI
Collected Date: 10/13/2011
Submitted Date/Time: 10/14/2011 13:00
Sampled by: D.Newcom
P.O. #: B0064410.2011.0

Report attention and sample tag change.

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Sample Summary (2 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S50389.01	MP005_10132011	Water	10/13/2011 13:00
S50389.02	ISCO Blank_10132011	Water	10/13/2011 13:30

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50389.01
Sample Tag: MP005_10132011
Collected Date/Time: 10/13/2011 13:00
Matrix: Water
COC Reference: BC101311.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	10/17/11 15:30	CCM		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	10/18/11 20:07	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	10/18/11 20:07	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	10/18/11 20:07	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	10/18/11 20:07	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	10/18/11 20:07	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	10/18/11 20:07	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	10/18/11 20:07	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	10/18/11 20:07	JANB	1336-36-3	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50389.02
Sample Tag: ISCO Blank_10132011
Collected Date/Time: 10/13/2011 13:30
Matrix: Water
COC Reference: BC101311.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	10/17/11 15:30	CCM		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	10/18/11 20:17	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	10/18/11 20:17	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	10/18/11 20:17	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	10/18/11 20:17	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	10/18/11 20:17	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	10/18/11 20:17	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	10/18/11 20:17	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	10/18/11 20:17	JANB	1336-36-3	

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID: BC101311.1

Send Results To:

Contact & Company Name: Beth Nanzer ARCADIS	Telephone: 810-229-1937
Address: 10559 Citation DR	Fax: 810-229-8837
City State Zip: Brighton, MI 48116	E-mail Address: bethany.nanzer@arcadis-us.com
Project Name/Location (City, State): Buick City/ Flint, MI	Project #: B0064410.2011.00801
Sampler's Printed Name: D. Newcom	Sampler's Signature:

Preservative	E							
Filtered (✓)								
# of Containers	1							
Container Information	2							

PARAMETER ANALYSIS & METHOD

5038 9 Sample ID	Collection Date	Collection Time	Type Comp	Type Grab	Matrix		Total PCB's								
.01 MP005_10132011	10/13/11	1300	x		w		x								
.02 ISCO_Blank_ 10132011	10/13/11	1330		x	w		x								

KEYS

Preservation Key:
A. H_2SO_4
B. HCL
C. NaOH
D. HNO_3
E. None
F.
G.
H.

Container Information Key:
1. 40 mL VOA
2. 1 L Amber
3. 125 mL Plastic
4. 250 mL Plastic
5. 500 mL Plastic
6. 1 L Plastic
7. 2 oz. Glass
8. 4 oz. Glass
9. 8 oz. Glass
10. Other

Matrix Key:
SE = Sediment, A = Air, SL = Sludge, SO = Soil, NL = NAPL / Oil, SW = Surface

REMARKS

Special Instructions/Comments: Invoice to: Ms. Monica Wallingford, Racer Trust, 2930 Ecorse Road, Ypsilanti, MI 48198, (313) 486.2928, P.O.No: MLT1295a - Please also send copy of Invoicing to Micki Maki (ARCADIS).

Special QA/QC Instructions: EDD Requested, Level II, Std TAT

Laboratory Information and Receipt		Relinquished By	Received By	Laboratory Received By
Lab Name: Merit	Cooler Custody Seal: ☐ Intact ☐ Not Intact	Printed Name: D. Newcom	Printed Name: Greg Copputhier	Printed Name: Paula Shaw
☑ Cooler packed with ice (✓)		Signature:	Signature:	Signature:
Specify Turnaround Requirements: Std TAT	Sample Receipt:	Firm: ARCADIS	Firm: Merit	Firm: Merit
Fed-Ex Tracking #:	Condition/Cooler Temp: 5.4	Date/Time: 10/14/11 1030	Date/Time: 10-14-11 1030	Date/Time: 10-14-11 1300

Analytical Laboratory Report

Report ID: S50627.01(01)
Generated on 11/09/2011

Report to

Attention: Mike Brennan/Micki Macki/Tony M.
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S50627.01-S50627.10
Project: B0064410.2011.00801 / Buick City / Flint MI
Collected Date: 11/02/2011
Submitted Date/Time: 11/02/2011 15:00
Sampled by: DLN, AO
P.O. #: B0064410.2011.0

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (10 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S50627.01	MP001_11022011	Liquid	11/02/2011 10:00
S50627.02	MP002_11022011	Liquid	11/02/2011 10:15
S50627.03	MP003_11022011	Liquid	11/02/2011 11:00
S50627.04	MP005_11022011	Liquid	11/02/2011 10:45
S50627.05	MP006_11022011	Liquid	11/02/2011 09:30
S50627.06	MP007_11022011	Liquid	11/02/2011 09:15
S50627.07	MP009_11022011	Liquid	11/02/2011 10:30
S50627.08	MP010_11022011	Liquid	11/02/2011 09:00
S50627.09	Field_Blank_11022011	Liquid	11/02/2011 07:40
S50627.10	Equip_Blank_11022011	Liquid	11/02/2011 07:50

Analytical Laboratory Report

Lab Sample ID: S50627.01
Sample Tag: MP001_11022011
Collected Date/Time: 11/02/2011 10:00
Matrix: Liquid
COC Reference: BC110211.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	3.1	ng/L	0.51	1631E	11/09/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S50627.02
Sample Tag: MP002_11022011
Collected Date/Time: 11/02/2011 10:15
Matrix: Liquid
COC Reference: BC110211.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	7.5	ng/L	0.51	1631E	11/09/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S50627.03
Sample Tag: MP003_11022011
Collected Date/Time: 11/02/2011 11:00
Matrix: Liquid
COC Reference: BC110211.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	17	ng/L	2.0	1631E	11/09/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S50627.04
Sample Tag: MP005_11022011
Collected Date/Time: 11/02/2011 10:45
Matrix: Liquid
COC Reference: BC110211.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	3.7	ng/L	0.51	1631E	11/09/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S50627.05
Sample Tag: MP006_11022011
Collected Date/Time: 11/02/2011 09:30
Matrix: Liquid
COC Reference: BC110211.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	1.0	ng/L	0.51	1631E	11/09/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S50627.06
Sample Tag: MP007_11022011
Collected Date/Time: 11/02/2011 09:15
Matrix: Liquid
COC Reference: BC110211.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	3.3	ng/L	0.51	1631E	11/09/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S50627.07
Sample Tag: MP009_11022011
Collected Date/Time: 11/02/2011 10:30
Matrix: Liquid
COC Reference: BC110211.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	1.6	ng/L	0.51	1631E	11/09/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S50627.08
Sample Tag: MP010_11022011
Collected Date/Time: 11/02/2011 09:00
Matrix: Liquid
COC Reference: BC110211.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	9.7	ng/L	0.51	1631E	11/09/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S50627.09
Sample Tag: Field_Blank_11022011
Collected Date/Time: 11/02/2011 07:40
Matrix: Liquid
COC Reference: BC110211.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	Not detected	ng/L	0.51	1631E	11/09/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S50627.10
Sample Tag: Equip_Blank_11022011
Collected Date/Time: 11/02/2011 07:50
Matrix: Liquid
COC Reference: BC110211.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	Not detected	ng/L	0.51	1631E	11/09/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID: BC110211.2

Send Results To:

Contact & Company Name:	Telephone:
Mike Brennan, Micki Maki, Tony Maffeo	810.225.1900
Address:	**Fax:**
10549 Citation DR, Suite 100	810-229-8837
City State Zip	**E-mail Address:**
Brighton, MI 48116	see comments
Project Name/Location (City State):	**Project #:**
Buick City/ Flint, MI	B0064410.2011.00801
Sampler's Printed Name:	**Sampler's Signature:**
D. Newcom, A. O'Neil	

Preservative	E														
Filtered (✓)															
# of Containers	3														
Container Information	1														

PARAMETER ANALYSIS & METHOD

50627 Sample ID		Collection Date	Collection Time	Type Comp	Type Grab	Matrix		Low Level Hg								
.01	MP001_11022011	11/2/11	1000		x	w		x								
.02	MP002_11022011	11/2/11	1015		x	w		x								
.03	MP003_11022011	11/2/11	1100		x	w		x								
.04	MP005_11022011	11/2/11	1045		x	w		x								
.05	MP006_11022011	11/2/11	0930		x	w		x								
.06	MP007_11022011	11/2/11	0915		x	w		x								
.07	MP009_11022011	11/2/11	1030		x	w		x								
.08	MP010_11022011	11/2/11	0900		x	w		x								
.09	Field_Blank_11022011	11/2/11	0740		x	w		x								
.10	Equip_Blank_11022011	11/2/11	0750		x	w		x								

KEYS

Preservation Key:
A. H_2SO_4
B. HCL
C. NaOH
D. HNO_3
E. None
F.
G.
H.

Container Information Key:
1. 40 mL VOA
2. 1 L Amber
3. 125 mL Plastic
4. 250 mL Plastic
5. 500 mL Plastic
6. 1 L Plastic
7. 2 oz. Glass
8. 4 oz. Glass
9. 8 oz. Glass
10. Other

Matrix Key:
SE = Sediment, A = Air, SL = Sludge
SO = Soil, NL = NAPL / Oil, SW = Surface

REMARKS

Special Instructions/Comments: Invoice to: Ms. Monica Wallingford, Racer Trust, 2930 Ecorse Road, Ypsilanti, MI 48198, (313) 486.2928, P.O.No: MT1295a - Please also send copy of Invoicing to Micki Maki (ARCADIS).
Emails: michael.brennan@aradis-us.com; micki.maki@arcadis-us.com; tony.maffeo@arcadis-us.com

Special QA/QC Instructions (✓): Level II and EDD

Laboratory Information and Receipt		Relinquished By	Received By	Laboratory Received By
Lab Name: Merit	Cooler Custody Seal	Printed Name: D.Newcom	Printed Name: Chris Coughlin	Printed Name: Paula Shaw
☑ Cooler packed with ice (✓)	☐ Intact ☐ Not Intact	Signature:	Signature:	Signature:
Specify Turnaround Requirements: Std TAT	Sample Receipt	Firm: ARCADIS	Firm: Merit	Firm: Merit
Fed-Ex Tracking #:	Condition/Cooler Temp: 4.8	Date/Time: 11/2/11 1400	Date/Time: 11-2-11 1400	Date/Time: 11-2-11 1500

Analytical Laboratory Report

Revised Report

Report ID: S50629.01(02)
Generated on 12/13/2011
Replaces report S50629.01(01) generated on 11/09/2011

Report to

Attention: Mike Brennan/Micki Macki/Tony M.
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S50629.01-S50629.14
Project: B0064410.2011.00801 / Buick City / Flint MI
Collected Date: 11/02/2011
Submitted Date/Time: 11/02/2011 15:00
Sampled by: D.Newcom, A.O'Neil
P.O. #: MLT1295

* Thallium reported instead of titanium.

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Sample Summary (14 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S50629.01	MP001_11022011	Liquid	11/02/2011 10:00
S50629.02	MP002_11022011	Liquid	11/02/2011 10:15
S50629.03	MP003_11022011	Liquid	11/02/2011 11:00
S50629.04	MP005_11022011	Liquid	11/02/2011 10:45
S50629.05	MP006_11022011	Liquid	11/02/2011 09:30
S50629.06	MP007_11022011	Liquid	11/02/2011 09:15
S50629.07	MP009_11022011	Liquid	11/02/2011 10:30
S50629.08	MP009_11022011 MS	Liquid	11/02/2011 10:30
S50629.09	MP009_11022011 MSD	Liquid	11/02/2011 10:30
S50629.10	MP010_11022011	Liquid	11/02/2011 09:00
S50629.11	DUP001_11022011	Liquid	11/02/2011 00:01
S50629.12	Field_Blank_11022011	Liquid	11/02/2011 07:40
S50629.13	Equip_Blank_11022011	Liquid	11/02/2011 07:50
S50629.14	Trip_Blank_11022011	Liquid	11/02/2011 00:01

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50629.01
Sample Tag: MP001_11022011
Collected Date/Time: 11/02/2011 10:00
Matrix: Liquid
COC Reference: BC110211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.8	IR
1	125ml Plastic	HNO3	Yes	4.8	IR
1	125ml Plastic	NaOH	Yes	4.8	IR
1	250ml Plastic	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	11/07/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	11/08/11 13:10	JDP	57-12-5	
Total Suspended Solids	0	mg/L	1	2540 D	11/07/11 12:00	WAR		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	11/07/11 16:59	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	11/07/11 16:59	SLS	7440-38-2	
Barium	0.080	mg/L	0.005	200.8	11/07/11 16:59	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	11/08/11 18:05	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	11/07/11 16:59	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	11/07/11 16:59	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	11/07/11 16:59	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	11/08/11 14:06	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	11/07/11 16:59	SLS	7439-92-1	
Manganese	0.007	mg/L	0.005	200.8	11/07/11 16:59	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	11/07/11 16:59	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	11/07/11 16:59	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	11/07/11 16:59	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	11/07/11 16:59	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	11/07/11 16:59	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	11/07/11 16:59	SLS	7440-62-2	
Zinc	0.028	mg/L	0.005	200.8	11/07/11 16:59	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	11/08/11 15:59	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	11/08/11 15:59	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	11/08/11 15:59	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	11/08/11 15:59	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	11/08/11 15:59	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	11/08/11 15:59	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	11/08/11 15:59	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	11/08/11 15:59	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	11/08/11 15:59	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	11/08/11 15:59	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	75-69-4	

Lab Sample ID: S50629.01 (continued)
Sample Tag: MP001_11022011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	11/08/11 15:59	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	75-34-3	
cis-1,2-Dichloroethene	1	ug/L	1	8260B	11/08/11 15:59	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	11/08/11 15:59	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	11/08/11 15:59	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	11/08/11 15:59	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	11/08/11 15:59	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	11/08/11 15:59	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	11/08/11 15:59	WAT		
o-Xylene	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	11/08/11 15:59	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	11/08/11 15:59	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 15:59	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	11/08/11 15:59	WAT	67-72-1	

Lab Sample ID: S50629.01 (continued)
Sample Tag: MP001_11022011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	11/08/11 15:59	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	11/08/11 15:59	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	11/08/11 15:59	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	11/08/11 15:59	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	11/08/11 15:59	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50629.02
Sample Tag: MP002_11022011
Collected Date/Time: 11/02/2011 10:15
Matrix: Liquid
COC Reference: BC110211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.8	IR
1	125ml Plastic	HNO3	Yes	4.8	IR
1	125ml Plastic	NaOH	Yes	4.8	IR
1	250ml Plastic	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	11/07/11 01:00	SLR		
Inorganics								
Cyanide	0.007	mg/L	0.005	335.4/4500-CN-E	11/08/11 13:12	JDP	57-12-5	
Total Suspended Solids	386	mg/L	1	2540 D	11/07/11 12:00	WAR		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	11/07/11 20:21	SLS	7440-36-0	
Arsenic	0.016	mg/L	0.002	200.8	11/07/11 20:21	SLS	7440-38-2	
Barium	0.332	mg/L	0.005	200.8	11/07/11 20:21	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	11/08/11 18:24	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	11/07/11 20:21	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	11/08/11 15:40	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	11/08/11 15:40	SLS	7440-48-4	
Copper	0.230	mg/L	0.004	200.8	11/07/11 20:21	SLS	7440-50-8	
Lead	0.012	mg/L	0.003	200.8	11/07/11 20:21	SLS	7439-92-1	
Manganese	0.779	mg/L	0.005	200.8	11/08/11 15:40	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	11/07/11 20:21	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	11/07/11 20:21	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	11/07/11 20:21	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	11/07/11 20:21	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	11/07/11 20:21	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	11/08/11 15:40	SLS	7440-62-2	
Zinc	0.024	mg/L	0.005	200.8	11/07/11 20:21	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	11/08/11 16:20	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	11/08/11 16:20	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	11/08/11 16:20	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	11/08/11 16:20	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	11/08/11 16:20	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	11/08/11 16:20	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	11/08/11 16:20	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	11/08/11 16:20	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	11/08/11 16:20	WAT	74-83-9	
Chloroethane	14	ug/L	5	8260B	11/08/11 16:20	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	75-69-4	

Lab Sample ID: S50629.02 (continued)
Sample Tag: MP002_11022011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	11/08/11 16:20	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	156-60-5	
1,1-Dichloroethane	11	ug/L	1	8260B	11/08/11 16:20	WAT	75-34-3	
cis-1,2-Dichloroethene	9	ug/L	1	8260B	11/08/11 16:20	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	11/08/11 16:20	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	74-97-5	
1,1,1-Trichloroethane	5	ug/L	1	8260B	11/08/11 16:20	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	11/08/11 16:20	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	11/08/11 16:20	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	107-06-2	
Trichloroethene	2	ug/L	1	8260B	11/08/11 16:20	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	11/08/11 16:20	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	11/08/11 16:20	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	11/08/11 16:20	WAT		
o-Xylene	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	11/08/11 16:20	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	11/08/11 16:20	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 16:20	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	11/08/11 16:20	WAT	67-72-1	

Lab Sample ID: S50629.02 (continued)
Sample Tag: MP002_11022011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	11/08/11 16:20	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	11/08/11 16:20	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	11/08/11 16:20	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	11/08/11 16:20	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	11/08/11 16:20	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50629.03
Sample Tag: MP003_11022011
Collected Date/Time: 11/02/2011 11:00
Matrix: Liquid
COC Reference: BC110211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.8	IR
1	125ml Plastic	HNO3	Yes	4.8	IR
1	125ml Plastic	NaOH	Yes	4.8	IR
1	250ml Plastic	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	11/07/11 01:00	SLR		
Inorganics								
Cyanide	0.007	mg/L	0.005	335.4/4500-CN-E	11/08/11 13:14	JDP	57-12-5	
Total Suspended Solids	29	mg/L	1	2540 D	11/07/11 12:00	WAR		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	11/07/11 20:26	SLS	7440-36-0	
Arsenic	0.004	mg/L	0.002	200.8	11/07/11 20:26	SLS	7440-38-2	
Barium	0.173	mg/L	0.005	200.8	11/07/11 20:26	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	11/08/11 18:26	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	11/07/11 20:26	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	11/08/11 15:43	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	11/08/11 15:43	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	11/07/11 20:26	SLS	7440-50-8	
Lead	0.009	mg/L	0.003	200.8	11/07/11 20:26	SLS	7439-92-1	
Manganese	0.224	mg/L	0.005	200.8	11/08/11 15:43	SLS	7439-96-5	
Nickel	0.008	mg/L	0.005	200.8	11/07/11 20:26	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	11/07/11 20:26	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	11/07/11 20:26	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	11/07/11 20:26	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	11/07/11 20:26	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	11/08/11 15:43	SLS	7440-62-2	
Zinc	0.009	mg/L	0.005	200.8	11/07/11 20:26	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	11/08/11 16:39	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	11/08/11 16:39	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	11/08/11 16:39	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	11/08/11 16:39	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	11/08/11 16:39	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	11/08/11 16:39	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	11/08/11 16:39	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	11/08/11 16:39	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	11/08/11 16:39	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	11/08/11 16:39	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	75-69-4	

Lab Sample ID: S50629.03 (continued)
Sample Tag: MP003_11022011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	11/08/11 16:39	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	11/08/11 16:39	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	11/08/11 16:39	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	11/08/11 16:39	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	107-06-2	
Trichloroethene	1	ug/L	1	8260B	11/08/11 16:39	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	11/08/11 16:39	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	11/08/11 16:39	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	11/08/11 16:39	WAT		
o-Xylene	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	11/08/11 16:39	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	11/08/11 16:39	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 16:39	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	11/08/11 16:39	WAT	67-72-1	

Lab Sample ID: S50629.03 (continued)
Sample Tag: MP003_11022011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	11/08/11 16:39	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	11/08/11 16:39	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	11/08/11 16:39	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	11/08/11 16:39	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	11/08/11 16:39	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50629.04
Sample Tag: MP005_11022011
Collected Date/Time: 11/02/2011 10:45
Matrix: Liquid
COC Reference: BC110211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.8	IR
1	125ml Plastic	NaOH	Yes	4.8	IR
1	250ml Plastic	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	11/07/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	11/08/11 13:16	JDP	57-12-5	
Total Suspended Solids	13	mg/L	1	2540 D	11/07/11 12:00	WAR		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	11/07/11 20:31	SLS	7440-36-0	
Arsenic	0.017	mg/L	0.002	200.8	11/07/11 20:31	SLS	7440-38-2	
Barium	0.093	mg/L	0.005	200.8	11/07/11 20:31	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	11/08/11 18:27	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	11/07/11 20:31	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	11/08/11 15:46	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	11/08/11 15:46	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	11/07/11 20:31	SLS	7440-50-8	
Lead	0.008	mg/L	0.003	200.8	11/07/11 20:31	SLS	7439-92-1	
Manganese	0.131	mg/L	0.005	200.8	11/08/11 15:46	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	11/07/11 20:31	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	11/07/11 20:31	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	11/07/11 20:31	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	11/07/11 20:31	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	11/07/11 20:31	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	11/08/11 15:46	SLS	7440-62-2	
Zinc	0.006	mg/L	0.005	200.8	11/07/11 20:31	SLS	7440-66-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50629.05
Sample Tag: MP006_11022011
Collected Date/Time: 11/02/2011 09:30
Matrix: Liquid
COC Reference: BC110211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.8	IR
1	125ml Plastic	HNO3	Yes	4.8	IR
1	125ml Plastic	NaOH	Yes	4.8	IR
1	250ml Plastic	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	11/07/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	11/08/11 13:18	JDP	57-12-5	
Total Suspended Solids	4	mg/L	1	2540 D	11/07/11 12:00	WAR		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	11/07/11 20:35	SLS	7440-36-0	
Arsenic	0.002	mg/L	0.002	200.8	11/07/11 20:35	SLS	7440-38-2	
Barium	0.080	mg/L	0.005	200.8	11/07/11 20:35	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	11/08/11 18:29	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	11/07/11 20:35	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	11/08/11 15:48	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	11/08/11 15:48	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	11/07/11 20:35	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	11/07/11 20:35	SLS	7439-92-1	
Manganese	0.202	mg/L	0.005	200.8	11/08/11 15:48	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	11/07/11 20:35	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	11/07/11 20:35	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	11/07/11 20:35	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	11/07/11 20:35	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	11/07/11 20:35	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	11/08/11 15:48	SLS	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	11/07/11 20:35	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	11/08/11 16:59	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	11/08/11 16:59	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	11/08/11 16:59	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	11/08/11 16:59	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	11/08/11 16:59	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	11/08/11 16:59	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	11/08/11 16:59	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	11/08/11 16:59	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	11/08/11 16:59	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	11/08/11 16:59	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	75-69-4	

Lab Sample ID: S50629.05 (continued)
Sample Tag: MP006_11022011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	11/08/11 16:59	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	11/08/11 16:59	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	11/08/11 16:59	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	11/08/11 16:59	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	11/08/11 16:59	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	11/08/11 16:59	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	11/08/11 16:59	WAT		
o-Xylene	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	11/08/11 16:59	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	11/08/11 16:59	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 16:59	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	11/08/11 16:59	WAT	67-72-1	

Lab Sample ID: S50629.05 (continued)
Sample Tag: MP006_11022011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	11/08/11 16:59	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	11/08/11 16:59	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	11/08/11 16:59	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	11/08/11 16:59	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	11/08/11 16:59	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50629.06
Sample Tag: MP007_11022011
Collected Date/Time: 11/02/2011 09:15
Matrix: Liquid
COC Reference: BC110211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.8	IR
1	125ml Plastic	HNO3	Yes	4.8	IR
1	125ml Plastic	NaOH	Yes	4.8	IR
1	250ml Plastic	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	11/07/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	11/08/11 13:20	JDP	57-12-5	
Total Suspended Solids	46	mg/L	1	2540 D	11/07/11 12:00	WAR		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	11/07/11 20:40	SLS	7440-36-0	
Arsenic	0.003	mg/L	0.002	200.8	11/07/11 20:40	SLS	7440-38-2	
Barium	0.082	mg/L	0.005	200.8	11/07/11 20:40	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	11/08/11 18:31	SLS	7440-41-7	
Cadmium	0.0005	mg/L	0.0005	200.8	11/07/11 20:40	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	11/08/11 15:50	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	11/08/11 15:50	SLS	7440-48-4	
Copper	0.005	mg/L	0.004	200.8	11/07/11 20:40	SLS	7440-50-8	
Lead	0.006	mg/L	0.003	200.8	11/07/11 20:40	SLS	7439-92-1	
Manganese	0.086	mg/L	0.005	200.8	11/08/11 15:50	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	11/07/11 20:40	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	11/07/11 20:40	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	11/07/11 20:40	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	11/07/11 20:40	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	11/07/11 20:40	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	11/08/11 15:50	SLS	7440-62-2	
Zinc	0.043	mg/L	0.005	200.8	11/07/11 20:40	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	11/08/11 17:20	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	11/08/11 17:20	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	11/08/11 17:20	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	11/08/11 17:20	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	11/08/11 17:20	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	11/08/11 17:20	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	11/08/11 17:20	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	11/08/11 17:20	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	11/08/11 17:20	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	11/08/11 17:20	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	75-69-4	

Lab Sample ID: S50629.06 (continued)
Sample Tag: MP007_11022011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	11/08/11 17:20	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	11/08/11 17:20	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	11/08/11 17:20	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	11/08/11 17:20	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	11/08/11 17:20	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	11/08/11 17:20	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	11/08/11 17:20	WAT		
o-Xylene	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	11/08/11 17:20	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	11/08/11 17:20	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 17:20	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	11/08/11 17:20	WAT	67-72-1	

Lab Sample ID: S50629.06 (continued)
Sample Tag: MP007_11022011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	11/08/11 17:20	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	11/08/11 17:20	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	11/08/11 17:20	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	11/08/11 17:20	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	11/08/11 17:20	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50629.07
Sample Tag: MP009_11022011
Collected Date/Time: 11/02/2011 10:30
Matrix: Liquid
COC Reference: BC110211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.8	IR
1	125ml Plastic	HNO3	Yes	4.8	IR
1	125ml Plastic	NaOH	Yes	4.8	IR
1	250ml Plastic	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	11/07/11 01:00	SLR		
Inorganics								
Cyanide	0.011	mg/L	0.005	335.4/4500-CN-E	11/08/11 13:22	JDP	57-12-5	
Total Suspended Solids	7	mg/L	1	2540 D	11/07/11 12:00	WAR		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	11/07/11 21:10	SLS	7440-36-0	
Arsenic	0.002	mg/L	0.002	200.8	11/07/11 21:10	SLS	7440-38-2	
Barium	0.118	mg/L	0.005	200.8	11/07/11 21:10	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	11/08/11 18:40	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	11/07/11 21:10	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	11/08/11 16:02	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	11/08/11 16:02	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	11/07/11 21:10	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	11/07/11 21:10	SLS	7439-92-1	
Manganese	0.097	mg/L	0.005	200.8	11/08/11 16:02	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	11/07/11 21:10	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	11/07/11 21:10	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	11/07/11 21:10	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	11/07/11 21:10	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	11/07/11 21:10	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	11/08/11 16:02	SLS	7440-62-2	
Zinc	0.007	mg/L	0.005	200.8	11/07/11 21:10	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	11/08/11 17:39	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	11/08/11 17:39	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	11/08/11 17:39	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	11/08/11 17:39	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	11/08/11 17:39	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	11/08/11 17:39	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	11/08/11 17:39	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	11/08/11 17:39	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	11/08/11 17:39	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	11/08/11 17:39	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	75-69-4	

Lab Sample ID: S50629.07 (continued)
Sample Tag: MP009_11022011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	11/08/11 17:39	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	75-34-3	
cis-1,2-Dichloroethene	11	ug/L	1	8260B	11/08/11 17:39	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	11/08/11 17:39	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	11/08/11 17:39	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	11/08/11 17:39	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	107-06-2	
Trichloroethene	4	ug/L	1	8260B	11/08/11 17:39	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	11/08/11 17:39	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	11/08/11 17:39	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	11/08/11 17:39	WAT		
o-Xylene	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	11/08/11 17:39	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	11/08/11 17:39	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 17:39	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	11/08/11 17:39	WAT	67-72-1	

Lab Sample ID: S50629.07 (continued)
Sample Tag: MP009_11022011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	11/08/11 17:39	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	11/08/11 17:39	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	11/08/11 17:39	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	11/08/11 17:39	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	11/08/11 17:39	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50629.08
Sample Tag: MP009_11022011 MS
Collected Date/Time: 11/02/2011 10:30
Matrix: Liquid
COC Reference: BC110211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.8	IR
1	125ml Plastic	HNO3	Yes	4.8	IR
1	125ml Plastic	NaOH	Yes	4.8	IR
1	250ml Plastic	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	11/07/11 01:00	SLR		
Inorganics								
Cyanide	0.106	mg/L	0.005	335.4/4500-CN-E	11/08/11 13:26	JDP	57-12-5	
Total Suspended Solids	4	mg/L	1	2540 D	11/07/11 12:00	WAR		
Metals								
Antimony	0.243	mg/L	0.005	200.8	11/07/11 21:14	SLS	7440-36-0	
Arsenic	0.290	mg/L	0.002	200.8	11/07/11 21:14	SLS	7440-38-2	
Barium	0.369	mg/L	0.005	200.8	11/07/11 21:14	SLS	7440-39-3	
Beryllium	0.243	mg/L	0.001	200.8	11/08/11 18:42	SLS	7440-41-7	
Cadmium	0.2465	mg/L	0.0005	200.8	11/07/11 21:14	SLS	7440-43-9	
Chromium	0.252	mg/L	0.005	200.8	11/08/11 16:04	SLS	7440-47-3	
Cobalt	0.244	mg/L	0.005	200.8	11/08/11 16:04	SLS	7440-48-4	
Copper	0.275	mg/L	0.004	200.8	11/07/11 21:14	SLS	7440-50-8	
Lead	0.236	mg/L	0.003	200.8	11/07/11 21:14	SLS	7439-92-1	
Manganese	0.342	mg/L	0.005	200.8	11/08/11 16:04	SLS	7439-96-5	
Nickel	0.285	mg/L	0.005	200.8	11/07/11 21:14	SLS	7440-02-0	
Selenium	0.268	mg/L	0.005	200.8	11/07/11 21:14	SLS	7782-49-2	
Silver	0.2438	mg/L	0.0005	200.8	11/07/11 21:14	SLS	7440-22-4	
Thallium	0.240	mg/L	0.002	200.8	11/07/11 21:14	SLS	7440-28-0	
Titanium	0.26	mg/L	0.02	200.8	11/07/11 21:14	SLS	7440-32-6	
Vanadium	0.255	mg/L	0.004	200.8	11/08/11 16:04	SLS	7440-62-2	
Zinc	0.287	mg/L	0.005	200.8	11/07/11 21:14	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	47	ug/L	10	8260B	11/08/11 20:01	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	8260B	11/08/11 20:01	WAT	67-64-1	1
Methyl iodide	44	ug/L	1	8260B	11/08/11 20:01	WAT	74-88-4	1
Carbon disulfide	44	ug/L	5	8260B	11/08/11 20:01	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	48	ug/L	5	8260B	11/08/11 20:01	WAT	1634-04-4	1
Acrylonitrile	47	ug/L	2	8260B	11/08/11 20:01	WAT	107-13-1	1
2-Butanone (MEK)	32	ug/L	25	8260B	11/08/11 20:01	WAT	78-93-3	1
Dichlorodifluoromethane	34	ug/L	5	8260B	11/08/11 20:01	WAT	75-71-8	1
Chloromethane	40	ug/L	5	8260B	11/08/11 20:01	WAT	74-87-3	1
Vinyl chloride	42	ug/L	1	8260B	11/08/11 20:01	WAT	75-01-4	1
Bromomethane	54	ug/L	5	8260B	11/08/11 20:01	WAT	74-83-9	1
Chloroethane	54	ug/L	5	8260B	11/08/11 20:01	WAT	75-00-3	1

1-Spiked at 50ug/l

Lab Sample ID: S50629.08 (continued)
Sample Tag: MP009_11022011 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Trichlorofluoromethane	54	ug/L	1	8260B	11/08/11 20:01	WAT	75-69-4	1
1,1-Dichloroethene	46	ug/L	1	8260B	11/08/11 20:01	WAT	75-35-4	1
Methylene chloride	48	ug/L	5	8260B	11/08/11 20:01	WAT	75-09-2	1
trans-1,2-Dichloroethene	47	ug/L	1	8260B	11/08/11 20:01	WAT	156-60-5	1
1,1-Dichloroethane	46	ug/L	1	8260B	11/08/11 20:01	WAT	75-34-3	1
cis-1,2-Dichloroethene	58	ug/L	1	8260B	11/08/11 20:01	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	8260B	11/08/11 20:01	WAT	109-99-9	1
Chloroform	47	ug/L	1	8260B	11/08/11 20:01	WAT	67-66-3	1
Bromochloromethane	46	ug/L	1	8260B	11/08/11 20:01	WAT	74-97-5	1
1,1,1-Trichloroethane	48	ug/L	1	8260B	11/08/11 20:01	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	11/08/11 20:01	WAT	108-10-1	1
2-Hexanone	Not detected	ug/L	50	8260B	11/08/11 20:01	WAT	591-78-6	1
Carbon tetrachloride	48	ug/L	1	8260B	11/08/11 20:01	WAT	56-23-5	1
Benzene	46	ug/L	1	8260B	11/08/11 20:01	WAT	71-43-2	1
1,2-Dichloroethane	46	ug/L	1	8260B	11/08/11 20:01	WAT	107-06-2	1
Trichloroethene	48	ug/L	1	8260B	11/08/11 20:01	WAT	79-01-6	1
1,2-Dichloropropane	47	ug/L	1	8260B	11/08/11 20:01	WAT	78-87-5	1
Bromodichloromethane	48	ug/L	1	8260B	11/08/11 20:01	WAT	75-27-4	1
Dibromomethane	46	ug/L	5	8260B	11/08/11 20:01	WAT	74-95-3	1
cis-1,3-Dichloropropene	48	ug/L	1	8260B	11/08/11 20:01	WAT	10061-01-5	1
Toluene	47	ug/L	1	8260B	11/08/11 20:01	WAT	108-88-3	1
trans-1,3-Dichloropropene	50	ug/L	1	8260B	11/08/11 20:01	WAT	10061-02-6	1
1,1,2-Trichloroethane	48	ug/L	1	8260B	11/08/11 20:01	WAT	79-00-5	1
Tetrachloroethene	46	ug/L	1	8260B	11/08/11 20:01	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	45	ug/L	1	8260B	11/08/11 20:01	WAT	110-57-6	1
Dibromochloromethane	48	ug/L	5	8260B	11/08/11 20:01	WAT	124-48-1	1
1,2-Dibromoethane	46	ug/L	1	8260B	11/08/11 20:01	WAT	106-93-4	1
Chlorobenzene	46	ug/L	1	8260B	11/08/11 20:01	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	48	ug/L	1	8260B	11/08/11 20:01	WAT	630-20-6	1
Ethylbenzene	47	ug/L	1	8260B	11/08/11 20:01	WAT	100-41-4	1
p,m-Xylene	93	ug/L	2	8260B	11/08/11 20:01	WAT		1
o-Xylene	48	ug/L	1	8260B	11/08/11 20:01	WAT	95-47-6	1
Styrene	44	ug/L	1	8260B	11/08/11 20:01	WAT	100-42-5	1
Isopropylbenzene	47	ug/L	5	8260B	11/08/11 20:01	WAT	98-82-8	1
Bromoform	49	ug/L	1	8260B	11/08/11 20:01	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	49	ug/L	1	8260B	11/08/11 20:01	WAT	79-34-5	1
1,2,3-Trichloropropane	47	ug/L	1	8260B	11/08/11 20:01	WAT	96-18-4	1
n-Propylbenzene	48	ug/L	1	8260B	11/08/11 20:01	WAT	103-65-1	1
Bromobenzene	47	ug/L	1	8260B	11/08/11 20:01	WAT	108-86-1	1
1,3,5-Trimethylbenzene	47	ug/L	1	8260B	11/08/11 20:01	WAT	108-67-8	1
tert-Butylbenzene	47	ug/L	1	8260B	11/08/11 20:01	WAT	98-06-6	1
1,2,4-Trimethylbenzene	49	ug/L	1	8260B	11/08/11 20:01	WAT	95-63-6	1
sec-Butylbenzene	48	ug/L	1	8260B	11/08/11 20:01	WAT	135-98-8	1
p-Isopropyltoluene	50	ug/L	5	8260B	11/08/11 20:01	WAT	99-87-6	1
1,3-Dichlorobenzene	47	ug/L	1	8260B	11/08/11 20:01	WAT	541-73-1	1
1,4-Dichlorobenzene	46	ug/L	1	8260B	11/08/11 20:01	WAT	106-46-7	1
1,2-Dichlorobenzene	48	ug/L	1	8260B	11/08/11 20:01	WAT	95-50-1	1
1,2,3-Trimethylbenzene	48	ug/L	1	8260B	11/08/11 20:01	WAT	526-73-8	1

1-Spiked at 50ug/l

Lab Sample ID: S50629.08 (continued)
Sample Tag: MP009_11022011 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	49	ug/L	1	8260B	11/08/11 20:01	WAT	104-51-8	1
Hexachloroethane	47	ug/L	5	8260B	11/08/11 20:01	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	48	ug/L	5	8260B	11/08/11 20:01	WAT	96-12-8	1
1,2,4-Trichlorobenzene	47	ug/L	5	8260B	11/08/11 20:01	WAT	120-82-1	1
1,2,3-Trichlorobenzene	49	ug/L	5	8260B	11/08/11 20:01	WAT	87-61-6	1
Naphthalene	49	ug/L	5	8260B	11/08/11 20:01	WAT	91-20-3	1
2-Methylnaphthalene	44	ug/L	5	8260B	11/08/11 20:01	WAT	91-57-6	1

1-Spiked at 50ug/l

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50629.09
Sample Tag: MP009_11022011 MSD
Collected Date/Time: 11/02/2011 10:30
Matrix: Liquid
COC Reference: BC110211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.8	IR
1	125ml Plastic	HNO3	Yes	4.8	IR
1	125ml Plastic	NaOH	Yes	4.8	IR
1	250ml Plastic	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	11/07/11 01:00	SLR		
Inorganics								
Cyanide	0.105	mg/L	0.005	335.4/4500-CN-E	11/08/11 13:28	JDP	57-12-5	
Total Suspended Solids	4	mg/L	1	2540 D	11/07/11 12:00	WAR		
Metals								
Antimony	0.245	mg/L	0.005	200.8	11/07/11 21:19	SLS	7440-36-0	
Arsenic	0.294	mg/L	0.002	200.8	11/07/11 21:19	SLS	7440-38-2	
Barium	0.367	mg/L	0.005	200.8	11/07/11 21:19	SLS	7440-39-3	
Beryllium	0.248	mg/L	0.001	200.8	11/08/11 18:44	SLS	7440-41-7	
Cadmium	0.2484	mg/L	0.0005	200.8	11/07/11 21:19	SLS	7440-43-9	
Chromium	0.256	mg/L	0.005	200.8	11/08/11 16:06	SLS	7440-47-3	
Cobalt	0.244	mg/L	0.005	200.8	11/08/11 16:06	SLS	7440-48-4	
Copper	0.275	mg/L	0.004	200.8	11/07/11 21:19	SLS	7440-50-8	
Lead	0.242	mg/L	0.003	200.8	11/07/11 21:19	SLS	7439-92-1	
Manganese	0.348	mg/L	0.005	200.8	11/08/11 16:06	SLS	7439-96-5	
Nickel	0.288	mg/L	0.005	200.8	11/07/11 21:19	SLS	7440-02-0	
Selenium	0.273	mg/L	0.005	200.8	11/07/11 21:19	SLS	7782-49-2	
Silver	0.2458	mg/L	0.0005	200.8	11/07/11 21:19	SLS	7440-22-4	
Thallium	0.243	mg/L	0.002	200.8	11/07/11 21:19	SLS	7440-28-0	
Titanium	0.26	mg/L	0.02	200.8	11/07/11 21:19	SLS	7440-32-6	
Vanadium	0.256	mg/L	0.004	200.8	11/08/11 16:06	SLS	7440-62-2	
Zinc	0.303	mg/L	0.005	200.8	11/07/11 21:19	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	49	ug/L	10	8260B	11/08/11 20:21	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	8260B	11/08/11 20:21	WAT	67-64-1	1
Methyl iodide	47	ug/L	1	8260B	11/08/11 20:21	WAT	74-88-4	1
Carbon disulfide	47	ug/L	5	8260B	11/08/11 20:21	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	51	ug/L	5	8260B	11/08/11 20:21	WAT	1634-04-4	1
Acrylonitrile	51	ug/L	2	8260B	11/08/11 20:21	WAT	107-13-1	1
2-Butanone (MEK)	35	ug/L	25	8260B	11/08/11 20:21	WAT	78-93-3	1
Dichlorodifluoromethane	36	ug/L	5	8260B	11/08/11 20:21	WAT	75-71-8	1
Chloromethane	43	ug/L	5	8260B	11/08/11 20:21	WAT	74-87-3	1
Vinyl chloride	45	ug/L	1	8260B	11/08/11 20:21	WAT	75-01-4	1
Bromomethane	59	ug/L	5	8260B	11/08/11 20:21	WAT	74-83-9	1
Chloroethane	58	ug/L	5	8260B	11/08/11 20:21	WAT	75-00-3	1

1-Spiked at 50ug/l

Lab Sample ID: S50629.09 (continued)
Sample Tag: MP009_11022011 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Trichlorofluoromethane	57	ug/L	1	8260B	11/08/11 20:21	WAT	75-69-4	1
1,1-Dichloroethene	48	ug/L	1	8260B	11/08/11 20:21	WAT	75-35-4	1
Methylene chloride	51	ug/L	5	8260B	11/08/11 20:21	WAT	75-09-2	1
trans-1,2-Dichloroethene	50	ug/L	1	8260B	11/08/11 20:21	WAT	156-60-5	1
1,1-Dichloroethane	49	ug/L	1	8260B	11/08/11 20:21	WAT	75-34-3	1
cis-1,2-Dichloroethene	61	ug/L	1	8260B	11/08/11 20:21	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	8260B	11/08/11 20:21	WAT	109-99-9	1
Chloroform	50	ug/L	1	8260B	11/08/11 20:21	WAT	67-66-3	1
Bromochloromethane	50	ug/L	1	8260B	11/08/11 20:21	WAT	74-97-5	1
1,1,1-Trichloroethane	51	ug/L	1	8260B	11/08/11 20:21	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	11/08/11 20:21	WAT	108-10-1	1
2-Hexanone	Not detected	ug/L	50	8260B	11/08/11 20:21	WAT	591-78-6	1
Carbon tetrachloride	52	ug/L	1	8260B	11/08/11 20:21	WAT	56-23-5	1
Benzene	48	ug/L	1	8260B	11/08/11 20:21	WAT	71-43-2	1
1,2-Dichloroethane	49	ug/L	1	8260B	11/08/11 20:21	WAT	107-06-2	1
Trichloroethene	51	ug/L	1	8260B	11/08/11 20:21	WAT	79-01-6	1
1,2-Dichloropropane	50	ug/L	1	8260B	11/08/11 20:21	WAT	78-87-5	1
Bromodichloromethane	50	ug/L	1	8260B	11/08/11 20:21	WAT	75-27-4	1
Dibromomethane	48	ug/L	5	8260B	11/08/11 20:21	WAT	74-95-3	1
cis-1,3-Dichloropropene	51	ug/L	1	8260B	11/08/11 20:21	WAT	10061-01-5	1
Toluene	49	ug/L	1	8260B	11/08/11 20:21	WAT	108-88-3	1
trans-1,3-Dichloropropene	53	ug/L	1	8260B	11/08/11 20:21	WAT	10061-02-6	1
1,1,2-Trichloroethane	50	ug/L	1	8260B	11/08/11 20:21	WAT	79-00-5	1
Tetrachloroethene	47	ug/L	1	8260B	11/08/11 20:21	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	49	ug/L	1	8260B	11/08/11 20:21	WAT	110-57-6	1
Dibromochloromethane	50	ug/L	5	8260B	11/08/11 20:21	WAT	124-48-1	1
1,2-Dibromoethane	49	ug/L	1	8260B	11/08/11 20:21	WAT	106-93-4	1
Chlorobenzene	49	ug/L	1	8260B	11/08/11 20:21	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	51	ug/L	1	8260B	11/08/11 20:21	WAT	630-20-6	1
Ethylbenzene	50	ug/L	1	8260B	11/08/11 20:21	WAT	100-41-4	1
p,m-Xylene	99	ug/L	2	8260B	11/08/11 20:21	WAT		1
o-Xylene	51	ug/L	1	8260B	11/08/11 20:21	WAT	95-47-6	1
Styrene	47	ug/L	1	8260B	11/08/11 20:21	WAT	100-42-5	1
Isopropylbenzene	50	ug/L	5	8260B	11/08/11 20:21	WAT	98-82-8	1
Bromoform	53	ug/L	1	8260B	11/08/11 20:21	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	53	ug/L	1	8260B	11/08/11 20:21	WAT	79-34-5	1
1,2,3-Trichloropropane	52	ug/L	1	8260B	11/08/11 20:21	WAT	96-18-4	1
n-Propylbenzene	52	ug/L	1	8260B	11/08/11 20:21	WAT	103-65-1	1
Bromobenzene	52	ug/L	1	8260B	11/08/11 20:21	WAT	108-86-1	1
1,3,5-Trimethylbenzene	50	ug/L	1	8260B	11/08/11 20:21	WAT	108-67-8	1
tert-Butylbenzene	50	ug/L	1	8260B	11/08/11 20:21	WAT	98-06-6	1
1,2,4-Trimethylbenzene	53	ug/L	1	8260B	11/08/11 20:21	WAT	95-63-6	1
sec-Butylbenzene	50	ug/L	1	8260B	11/08/11 20:21	WAT	135-98-8	1
p-Isopropyltoluene	53	ug/L	5	8260B	11/08/11 20:21	WAT	99-87-6	1
1,3-Dichlorobenzene	51	ug/L	1	8260B	11/08/11 20:21	WAT	541-73-1	1
1,4-Dichlorobenzene	49	ug/L	1	8260B	11/08/11 20:21	WAT	106-46-7	1
1,2-Dichlorobenzene	51	ug/L	1	8260B	11/08/11 20:21	WAT	95-50-1	1
1,2,3-Trimethylbenzene	50	ug/L	1	8260B	11/08/11 20:21	WAT	526-73-8	1

1-Spiked at 50ug/l

Lab Sample ID: S50629.09 (continued)
Sample Tag: MP009_11022011 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
n-Butylbenzene	51	ug/L	1	8260B	11/08/11 20:21	WAT	104-51-8	1
Hexachloroethane	49	ug/L	5	8260B	11/08/11 20:21	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	52	ug/L	5	8260B	11/08/11 20:21	WAT	96-12-8	1
1,2,4-Trichlorobenzene	50	ug/L	5	8260B	11/08/11 20:21	WAT	120-82-1	1
1,2,3-Trichlorobenzene	52	ug/L	5	8260B	11/08/11 20:21	WAT	87-61-6	1
Naphthalene	52	ug/L	5	8260B	11/08/11 20:21	WAT	91-20-3	1
2-Methylnaphthalene	48	ug/L	5	8260B	11/08/11 20:21	WAT	91-57-6	1

1-Spiked at 50ug/l

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50629.10
Sample Tag: MP010_11022011
Collected Date/Time: 11/02/2011 09:00
Matrix: Liquid
COC Reference: BC110211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.8	IR
1	125ml Plastic	HNO3	Yes	4.8	IR
1	125ml Plastic	NaOH	Yes	4.8	IR
1	250ml Plastic	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	11/07/11 01:00	SLR		
Inorganics								
Cyanide	0.013	mg/L	0.005	335.4/4500-CN-E	11/08/11 13:30	JDP	57-12-5	
Total Suspended Solids	7	mg/L	1	2540 D	11/07/11 12:00	WAR		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	11/07/11 20:45	SLS	7440-36-0	
Arsenic	0.018	mg/L	0.002	200.8	11/07/11 20:45	SLS	7440-38-2	
Barium	1.17	mg/L	0.005	200.8	11/07/11 20:45	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	11/08/11 18:33	SLS	7440-41-7	
Cadmium	0.0049	mg/L	0.0005	200.8	11/07/11 20:45	SLS	7440-43-9	
Chromium	0.029	mg/L	0.005	200.8	11/08/11 15:53	SLS	7440-47-3	
Cobalt	0.006	mg/L	0.005	200.8	11/08/11 15:53	SLS	7440-48-4	
Copper	0.102	mg/L	0.004	200.8	11/07/11 20:45	SLS	7440-50-8	
Lead	0.571	mg/L	0.003	200.8	11/07/11 20:45	SLS	7439-92-1	
Manganese	5.24	mg/L	0.005	200.8	11/08/11 15:53	SLS	7439-96-5	
Nickel	0.054	mg/L	0.005	200.8	11/07/11 20:45	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	11/07/11 20:45	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	11/07/11 20:45	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	11/07/11 20:45	SLS	7440-28-0	
Titanium	0.03	mg/L	0.02	200.8	11/07/11 20:45	SLS	7440-32-6	
Vanadium	0.006	mg/L	0.004	200.8	11/08/11 15:53	SLS	7440-62-2	
Zinc	0.861	mg/L	0.005	200.8	11/07/11 20:45	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	11/08/11 18:00	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	11/08/11 18:00	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	11/08/11 18:00	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	11/08/11 18:00	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	11/08/11 18:00	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	11/08/11 18:00	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	11/08/11 18:00	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	11/08/11 18:00	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	11/08/11 18:00	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	11/08/11 18:00	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	75-69-4	

Lab Sample ID: S50629.10 (continued)
Sample Tag: MP010_11022011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	11/08/11 18:00	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	11/08/11 18:00	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	11/08/11 18:00	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	11/08/11 18:00	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	11/08/11 18:00	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	11/08/11 18:00	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	11/08/11 18:00	WAT		
o-Xylene	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	11/08/11 18:00	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	11/08/11 18:00	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 18:00	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	11/08/11 18:00	WAT	67-72-1	

Lab Sample ID: S50629.10 (continued)
Sample Tag: MP010_11022011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	11/08/11 18:00	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	11/08/11 18:00	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	11/08/11 18:00	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	11/08/11 18:00	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	11/08/11 18:00	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50629.11
Sample Tag: DUP001_11022011
Collected Date/Time: 11/02/2011 00:01
Matrix: Liquid
COC Reference: BC110211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.8	IR
1	125ml Plastic	HNO3	Yes	4.8	IR
1	125ml Plastic	NaOH	Yes	4.8	IR
1	250ml Plastic	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	11/07/11 01:00	SLR		
Inorganics								
Cyanide	0.008	mg/L	0.005	335.4/4500-CN-E	11/08/11 13:34	JDP	57-12-5	
Total Suspended Solids	68	mg/L	1	2540 D	11/07/11 12:00	WAR		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	11/07/11 20:55	SLS	7440-36-0	
Arsenic	0.011	mg/L	0.002	200.8	11/07/11 20:55	SLS	7440-38-2	
Barium	0.310	mg/L	0.005	200.8	11/07/11 20:55	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	11/08/11 18:35	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	11/07/11 20:55	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	11/08/11 15:55	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	11/08/11 15:55	SLS	7440-48-4	
Copper	0.148	mg/L	0.004	200.8	11/07/11 20:55	SLS	7440-50-8	
Lead	0.004	mg/L	0.003	200.8	11/07/11 20:55	SLS	7439-92-1	
Manganese	0.565	mg/L	0.005	200.8	11/08/11 15:55	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	11/07/11 20:55	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	11/07/11 20:55	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	11/07/11 20:55	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	11/07/11 20:55	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	11/07/11 20:55	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	11/08/11 15:55	SLS	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	11/07/11 20:55	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	11/08/11 18:20	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	11/08/11 18:20	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	11/08/11 18:20	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	11/08/11 18:20	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	11/08/11 18:20	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	11/08/11 18:20	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	11/08/11 18:20	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	11/08/11 18:20	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	11/08/11 18:20	WAT	74-83-9	
Chloroethane	14	ug/L	5	8260B	11/08/11 18:20	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	75-69-4	

Lab Sample ID: S50629.11 (continued)
Sample Tag: DUP001_11022011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	11/08/11 18:20	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	156-60-5	
1,1-Dichloroethane	11	ug/L	1	8260B	11/08/11 18:20	WAT	75-34-3	
cis-1,2-Dichloroethene	9	ug/L	1	8260B	11/08/11 18:20	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	11/08/11 18:20	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	74-97-5	
1,1,1-Trichloroethane	5	ug/L	1	8260B	11/08/11 18:20	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	11/08/11 18:20	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	11/08/11 18:20	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	107-06-2	
Trichloroethene	2	ug/L	1	8260B	11/08/11 18:20	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	11/08/11 18:20	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	11/08/11 18:20	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	11/08/11 18:20	WAT		
o-Xylene	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	11/08/11 18:20	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	11/08/11 18:20	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 18:20	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	11/08/11 18:20	WAT	67-72-1	

Lab Sample ID: S50629.11 (continued)
Sample Tag: DUP001_11022011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	11/08/11 18:20	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	11/08/11 18:20	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	11/08/11 18:20	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	11/08/11 18:20	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	11/08/11 18:20	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50629.12
Sample Tag: Field_Blank_11022011
Collected Date/Time: 11/02/2011 07:40
Matrix: Liquid
COC Reference: BC110211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.8	IR
1	125ml Plastic	HNO3	Yes	4.8	IR
1	125ml Plastic	NaOH	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	11/07/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	11/08/11 13:36	JDP	57-12-5	
Metals								
Antimony	Not detected	mg/L	0.005	200.8	11/07/11 21:00	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	11/07/11 21:00	SLS	7440-38-2	
Barium	0.008	mg/L	0.005	200.8	11/07/11 21:00	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	11/08/11 18:37	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	11/07/11 21:00	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	11/08/11 15:57	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	11/08/11 15:57	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	11/07/11 21:00	SLS	7440-50-8	
Lead	0.003	mg/L	0.003	200.8	11/07/11 21:00	SLS	7439-92-1	
Manganese	Not detected	mg/L	0.005	200.8	11/08/11 15:57	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	11/07/11 21:00	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	11/07/11 21:00	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	11/07/11 21:00	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	11/07/11 21:00	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	11/07/11 21:00	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	11/08/11 15:57	SLS	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	11/07/11 21:00	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	11/08/11 18:40	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	11/08/11 18:40	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	11/08/11 18:40	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	11/08/11 18:40	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	11/08/11 18:40	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	11/08/11 18:40	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	11/08/11 18:40	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	11/08/11 18:40	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	11/08/11 18:40	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	11/08/11 18:40	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	11/08/11 18:40	WAT	75-09-2	

Lab Sample ID: S50629.12 (continued)
Sample Tag: Field_Blank_11022011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	11/08/11 18:40	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	11/08/11 18:40	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	11/08/11 18:40	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	11/08/11 18:40	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	11/08/11 18:40	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	11/08/11 18:40	WAT		
o-Xylene	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	11/08/11 18:40	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	11/08/11 18:40	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 18:40	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	11/08/11 18:40	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	11/08/11 18:40	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	11/08/11 18:40	WAT	120-82-1	

Lab Sample ID: S50629.12 (continued)
Sample Tag: Field_Blank_11022011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	11/08/11 18:40	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	11/08/11 18:40	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	11/08/11 18:40	WAT	91-57-6	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S50629.13
Sample Tag: Equip_Blank_11022011
Collected Date/Time: 11/02/2011 07:50
Matrix: Liquid
COC Reference: BC110211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.8	IR
1	125ml Plastic	HNO3	Yes	4.8	IR
1	125ml Plastic	NaOH	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	11/07/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	11/08/11 13:38	JDP	57-12-5	
Metals								
Antimony	Not detected	mg/L	0.005	200.8	11/07/11 21:05	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	11/07/11 21:05	SLS	7440-38-2	
Barium	Not detected	mg/L	0.005	200.8	11/07/11 21:05	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	11/08/11 18:39	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	11/07/11 21:05	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	11/08/11 16:00	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	11/08/11 16:00	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	11/07/11 21:05	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	11/07/11 21:05	SLS	7439-92-1	
Manganese	Not detected	mg/L	0.005	200.8	11/08/11 16:00	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	11/07/11 21:05	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	11/07/11 21:05	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	11/07/11 21:05	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	11/07/11 21:05	SLS	7440-28-0	
Titanium	Not detected	mg/L	0.02	200.8	11/07/11 21:05	SLS	7440-32-6	
Vanadium	Not detected	mg/L	0.004	200.8	11/08/11 16:00	SLS	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	11/07/11 21:05	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	11/08/11 19:00	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	11/08/11 19:00	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	11/08/11 19:00	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	11/08/11 19:00	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	11/08/11 19:00	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	11/08/11 19:00	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	11/08/11 19:00	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	11/08/11 19:00	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	11/08/11 19:00	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	11/08/11 19:00	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	11/08/11 19:00	WAT	75-09-2	

Lab Sample ID: S50629.13 (continued)
Sample Tag: Equip_Blank_11022011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	11/08/11 19:00	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	11/08/11 19:00	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	11/08/11 19:00	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	11/08/11 19:00	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	11/08/11 19:00	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	11/08/11 19:00	WAT		
o-Xylene	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	11/08/11 19:00	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	11/08/11 19:00	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 19:00	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	11/08/11 19:00	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	11/08/11 19:00	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	11/08/11 19:00	WAT	120-82-1	

Lab Sample ID: S50629.13 (continued)
Sample Tag: Equip_Blank_11022011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	11/08/11 19:00	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	11/08/11 19:00	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	11/08/11 19:00	WAT	91-57-6	

Lab Sample ID: S50629.14
Sample Tag: Trip_Blank_11022011
Collected Date/Time: 11/02/2011 00:01
Matrix: Liquid
COC Reference: BC110211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	11/08/11 19:20	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	11/08/11 19:20	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	11/08/11 19:20	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	11/08/11 19:20	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	11/08/11 19:20	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	11/08/11 19:20	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	11/08/11 19:20	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	11/08/11 19:20	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	11/08/11 19:20	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	11/08/11 19:20	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	11/08/11 19:20	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	11/08/11 19:20	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	11/08/11 19:20	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	11/08/11 19:20	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	11/08/11 19:20	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	11/08/11 19:20	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	100-41-4	

Lab Sample ID: S50629.14 (continued)
Sample Tag: Trip_Blank_11022011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
p,m-Xylene	Not detected	ug/L	2	8260B	11/08/11 19:20	WAT		
o-Xylene	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	11/08/11 19:20	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	11/08/11 19:20	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	11/08/11 19:20	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	11/08/11 19:20	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	11/08/11 19:20	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	11/08/11 19:20	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	11/08/11 19:20	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	11/08/11 19:20	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	11/08/11 19:20	WAT	91-57-6	

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID: BC110211.1

Send Results To:

Contact & Company Name: Mike Brennan, Mickl Maki, Tony Maffeo	Telephone: 810.225.1900
Address: 10559 Citation DR, Suite 100	Fax: 810-229-8837
City State Zip: Brighton, MI 48116	E-mail Address: SEE COMMENTS
Project Name/Location (City, State): Buick City/ Flint, MI	Project #: B0064410.2011.00801
Sampler's Printed Name: D. Newcom, A. O'Neil	Sampler's Signature:

Preservative	E	C	D	B				
Filtered (✓)								
# of Containers	1	1	1	2				
Container Information	10	4	3	1				

PARAMETER ANALYSIS & METHOD

506 29 Sample ID	Collection Date	Collection Time	Type Comp	Type Grab	Matrix		Total Suspended Solids	Cyanide	Metals (Ag, As, Ba, Be, Cd, Cr [total], Co, Cu, Mn, Ni, Pb, Sb, Tl, Se, V, and Zn)	VOCs					REMARKS
.01 MP001_11022011	11/2/11	1000		x	w		x	x	x	x					
.02 MP002_11022011	11/2/11	1015		x	w		x	x	x	x					
.03 MP003_11022011	11/2/11	1100		x	w		x	x	x	x					
.04 MP005_11022011	11/2/11	1045		x	w		x	x	x						
.05 MP006_11022011	11/2/11	0930		x	w		x	x	x	x					
.06 MP007_11022011	11/2/11	0915		x	w		x	x	x	x					
.07 .08 .09 MP009_11022011	11/2/11	1030		x	w		x	x	x	x					MS/MSD
.10 MP010_11022011	11/2/11	0900		x	w		x	x	x	x					
.11 Dup001_11022011	11/2/11	na		x	w		x	x	x	x					
.12 Field_Blank_11022011	11/2/11	0740		x	w			x	x	x					
.13 Equip_Blank_11022011	11/2/11	0750		x	w			x	x	x					
.14 Trip_Blank_11022011	na	na		x	w					x					Lab Filled

KEYS

Preservation Key:
A. H_2SO_4
B. HCL
C. NaOH
D. HNO_3
E. None
F.
G.
H.

Container Information Key:
1. 40 mL VOA
2. 1 L Amber
3. 125 mL Plastic
4. 250 mL Plastic
5. 500 mL Plastic
6. 1 L Plastic
7. 2 oz. Glass
8. 4 oz. Glass
9. 8 oz. Glass
10. Other

Matrix Key:
SE = Sediment, A = Air, SL = Sludge
SO = Soil, NL = NAPL / Oil, SW = Surface

Special Instructions/Comments: Invoice to: Ms. Monica Wallingford, Racer Trust, 2930 Ecorse Road, Ypsilanti, MI 48198, (313) 486.2928, P.O.No: MT1295a - Please also send copy of Invoicing to Micki Maki (ARCADIS).
Emails: michael.brennan@aradis-us.com; micki.maki@arcadis-us.com; tony.maffeo@arcadis-us.com

Special QA/QC Instructions (✓): Level II and EDD

Laboratory Information and Receipt		Relinquished By	Received By	Laboratory Received By
Lab Name: Merit	Cooler Custody Seal	Printed Name: D.Newcom	Printed Name: Chris Gauthier	Printed Name: Paula Straw
☑ Cooler packed with ice (✓)	☐ Intact ☐ Not Intact	Signature:	Signature:	Signature:
Specify Turnaround Requirements: Std TAT	Sample Receipt	Firm: ARCADIS	Firm: Merit	Firm: Merit
Fed-Ex Tracking #:	Condition/Cooler Temp: 4.8	Date/Time: 11/2/11 1400	Date/Time: 11-2-11 1400	Date/Time: 11-2-11 1500

Analytical Laboratory Report

Report ID: S50632.01(01)
Generated on 11/04/2011

Report to

Attention: Beth Nanzer/ Mike Brennan
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-225-1937 FAX: 810-229-8837
Email: bethany.nanzer@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S50632.01-S50632.02
Project: B0064410.2011.00801 / Buick City / Flint MI
Collected Date: 11/01/2011
Submitted Date/Time: 11/02/2011 15:00
Sampled by: D.Newcom
P.O. #: MLT1295

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (2 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S50632.01	MP003A_11012011	Liquid	11/01/2011 09:00
S50632.02	ISCO_Blank_11012011	Liquid	11/01/2011 09:30

Analytical Laboratory Report

Lab Sample ID: S50632.01
Sample Tag: MP003A_11012011
Collected Date/Time: 11/01/2011 09:00
Matrix: Liquid
COC Reference: BC110111.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	11/03/11 12:00	CCM		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	11/03/11 13:59	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	11/03/11 13:59	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	11/03/11 13:59	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	11/03/11 13:59	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	11/03/11 13:59	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	11/03/11 13:59	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	11/03/11 13:59	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	11/03/11 13:59	JANB	1336-36-3	

Analytical Laboratory Report

Lab Sample ID: S50632.02
Sample Tag: ISCO_Blank_11012011
Collected Date/Time: 11/01/2011 09:30
Matrix: Liquid
COC Reference: BC110111.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	11/03/11 12:00	CCM		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	11/03/11 14:09	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	11/03/11 14:09	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	11/03/11 14:09	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	11/03/11 14:09	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	11/03/11 14:09	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	11/03/11 14:09	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	11/03/11 14:09	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	11/03/11 14:09	JANB	1336-36-3	

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID: BC110111.1

Send Results To:

Contact & Company Name: Beth Nanzer ARCADIS	Telephone: 810-229-1937
Address: 10559 Citation DR	Fax: 810-229-8837
City State Zip: Brighton, MI 48116	E-mail Address: bethany.nanzer@arcadis-us.com
Project Name/Location (City, State): Buick City/ Flint, MI	Project #: B0064410.2011.00801
Sampler's Printed Name: D. Newcom	Sampler's Signature:

Preservative	E								
Filtered (✓)									
# of Containers	2								
Container Information	2								

PARAMETER ANALYSIS & METHOD

Sample ID	Collection Date	Collection Time	Type Comp	Type Grab	Matrix		Total PCB's								
MP003A_11012011	11/1/11	0900	x		w		x								
ISCO_Blank_11012011	11/1/11	0930		x	w		x								

32 506 01 02

KEYS

Preservation Key:
A. H_2SO_4
B. HCL
C. NaOH
D. HNO_3
E. None
F.
G.
H.

Container Information Key:
1. 40 mL VOA
2. 1 L Amber
3. 125 mL Plastic
4. 250 mL Plastic
5. 500 mL Plastic
6. 1 L Plastic
7. 2 oz. Glass
8. 4 oz. Glass
9. 8 oz. Glass
10. Other

Matrix Key:
SE = Sediment, A = Air, SL = Sludge
SO = Soil, NL = NAPL / Oil, SW = Surface

REMARKS

Special Instructions/Comments: Invoice to: Ms. Monica Wallingford, Racer Trust, 2930 Ecorse Road, Ypsilanti, MI 48198, (313) 486.2928, P.O.No: MLT1295a - Please also send copy of Invoicing to Micki Maki (ARCADIS). Please Cc Mike Brennan on report (michael.brennan@arcadis-us.com)

Special QA/QC Instructions: EDD Requested, Level II, Std TAT

Laboratory Information and Receipt		Relinquished By	Received By	Laboratory Received By
Lab Name: Merit	Cooler Custody Seal: ☐ Intact ☐ Not Intact	Printed Name: D. Newcom	Printed Name: Chris Gauthier	Printed Name: Paula Shaw
☑ Cooler packed with ice (✓)		Signature:	Signature:	Signature:
Specify Turnaround Requirements: Std TAT	Sample Receipt:	Firm: ARCADIS	Firm: Merit	Firm: Merit
Fed-Ex Tracking #:	Condition/Cooler Temp: 4.8	Date/Time: 11/2/11 1400	Date/Time: 11-2-11 1400	Date/Time: 11-2-11 1500

Analytical Laboratory Report

Report ID: S50634.01(01)
Generated on 11/04/2011

Report to

Attention: Beth Nanzer/ Mike Brennan
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-225-1937 FAX: 810-229-8837
Email: bethany.nanzer@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S50634.01-S50634.02
Project: B0064410.2011.00801 / Buick City / Flint MI
Collected Date: 11/02/2011
Submitted Date/Time: 11/02/2011 15:00
Sampled by: D.Newcom
P.O. #: MLT1295

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (2 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S50634.01	MP005-C_11022011	Liquid	11/02/2011 12:00
S50634.02	ISCO_Blank_11022011	Liquid	11/02/2011 12:40

Analytical Laboratory Report

Lab Sample ID: S50634.01
Sample Tag: MP005-C_11022011
Collected Date/Time: 11/02/2011 12:00
Matrix: Liquid
COC Reference: BC110211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	11/03/11 12:00	CCM		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	11/03/11 14:20	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	11/03/11 14:20	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	11/03/11 14:20	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	11/03/11 14:20	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	11/03/11 14:20	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	11/03/11 14:20	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	11/03/11 14:20	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	11/03/11 14:20	JANB	1336-36-3	

Analytical Laboratory Report

Lab Sample ID: S50634.02
Sample Tag: ISCO_Blank_11022011
Collected Date/Time: 11/02/2011 12:40
Matrix: Liquid
COC Reference: BC110211.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.8	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	11/03/11 12:00	CCM		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	11/03/11 14:30	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	11/03/11 14:30	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	11/03/11 14:30	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	11/03/11 14:30	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	11/03/11 14:30	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	11/03/11 14:30	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	11/03/11 14:30	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	11/03/11 14:30	JANB	1336-36-3	

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID: BC110211.1

Send Results To:

Contact & Company Name: Beth Nanzer ARCADIS	Telephone: 810-229-1937
Address: 10559 Citation DR	Fax: 810-229-8837
City State Zip: Brighton, MI 48116	E-mail Address: bethany.nanzer@arcadis-us.com
Project Name/Location (City, State): Buick City/ Flint, MI	Project #: B0064410.2011.00801
Sampler's Printed Name: D. Newcom	Sampler's Signature:

						Preservative	E								
						Filtered (✓)									
						# of Containers	2								
						Container Information	2								
						PARAMETER ANALYSIS & METHOD									
50634 Sample ID	Collection Date	Collection Time	Type Comp	Type Grab	Matrix		Total PCB's								REMARKS
MP005-C_1102011 .01	11/2/11	1200	x		w		x								
ISCO_Blank_11022011 .02	11/2/11	1240		x	w		x								

KEYS

Preservation Key:
A. H_2SO_4
B. HCL
C. NaOH
D. HNO_3
E. None
F.
G.
H.

Container Information Key:
1. 40 mL VOA
2. 1 L Amber
3. 125 mL Plastic
4. 250 mL Plastic
5. 500 mL Plastic
6. 1 L Plastic
7. 2 oz. Glass
8. 4 oz. Glass
9. 8 oz. Glass
10. Other

Matrix Key:
SE = Sediment, A = Air, SL = Sludge
SO = Soil, NL = NAPL / Oil, SW = Surface

Special Instructions/Comments: Invoice to: Ms. Monica Wallingford, Racer Trust, 2930 Ecorse Road, Ypsilanti, MI 48198, (313) 486.2928, P.O.No: MLT1295a - Please also send copy of Invoicing to Micki Maki (ARCADIS).
Please Cc Mike Brennan on report (michael.brennan@arcadis-us.com)

Special QA/QC Instructions: EDD Requested, Level II, Std TAT

Laboratory Information and Receipt		Relinquished By	Received By	Laboratory Received By
Lab Name: Merit	Cooler Custody Seal: ☐ Intact ☐ Not Intact	Printed Name: D. Newcom	Printed Name: James Gauthier	Printed Name: Paula Shaw
☑ Cooler packed with ice (✓)		Signature:	Signature:	Signature:
Specify Turnaround Requirements: Std TAT	Sample Receipt:	Firm: ARCADIS	Firm: Merit	Firm: Merit
Fed-Ex Tracking #:	Condition/Cooler Temp: 4.8	Date/Time: 11/2/11 1400	Date/Time: 11-2-11 1430	Date/Time: 11-2-11 1500

Analytical Laboratory Report

Report ID: S51024.01(01)
Generated on 12/19/2011

Report to

Attention: Mike Brennan/Micki Macki/Tony M.
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S51024.01-S51024.11
Project: B0064410.2011.00801 / Buick City / Flint MI
Collected Date: 12/13/2011
Submitted Date/Time: 12/13/2011 14:30
Sampled by: DLN, J.Kotwicki
P.O. #: B0064410.2011.0

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (11 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S51024.01	MP001_12132011	Liquid	12/13/2011 10:25
S51024.02	MP002_12132011	Liquid	12/13/2011 11:00
S51024.03	MP003_12132011	Liquid	12/13/2011 11:40
S51024.04	MP005_12132011	Liquid	12/13/2011 11:55
S51024.05	MP006_12132011	Liquid	12/13/2011 12:40
S51024.06	MP007_12132011	Liquid	12/13/2011 12:20
S51024.07	MP009_12132011	Liquid	12/13/2011 11:15
S51024.08	MP010_12132011	Liquid	12/13/2011 12:55
S51024.09	MP013_12132011	Liquid	12/13/2011 09:30
S51024.10	Field_Blank_12132011	Liquid	12/13/2011 13:00
S51024.11	Equip_Blank_12132011	Liquid	12/13/2011 13:15

Analytical Laboratory Report

Lab Sample ID: S51024.01
Sample Tag: MP001_12132011
Collected Date/Time: 12/13/2011 10:25
Matrix: Liquid
COC Reference: BC121311.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	1.6	ng/L	0.50	1631E	12/16/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S51024.02
Sample Tag: MP002_12132011
Collected Date/Time: 12/13/2011 11:00
Matrix: Liquid
COC Reference: BC121311.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	1.3	ng/L	0.50	1631E	12/16/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S51024.03
Sample Tag: MP003_12132011
Collected Date/Time: 12/13/2011 11:40
Matrix: Liquid
COC Reference: BC121311.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	1.7	ng/L	0.50	1631E	12/16/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S51024.04
Sample Tag: MP005_12132011
Collected Date/Time: 12/13/2011 11:55
Matrix: Liquid
COC Reference: BC121311.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	8.7	ng/L	0.50	1631E	12/16/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S51024.05
Sample Tag: MP006_12132011
Collected Date/Time: 12/13/2011 12:40
Matrix: Liquid
COC Reference: BC121311.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	2.7	ng/L	0.50	1631E	12/16/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S51024.06
Sample Tag: MP007_12132011
Collected Date/Time: 12/13/2011 12:20
Matrix: Liquid
COC Reference: BC121311.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	4.2	ng/L	0.50	1631E	12/16/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S51024.07
Sample Tag: MP009_12132011
Collected Date/Time: 12/13/2011 11:15
Matrix: Liquid
COC Reference: BC121311.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	7.7	ng/L	0.50	1631E	12/16/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S51024.08
Sample Tag: MP010_12132011
Collected Date/Time: 12/13/2011 12:55
Matrix: Liquid
COC Reference: BC121311.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	91	ng/L	5.0	1631E	12/16/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S51024.09
Sample Tag: MP013_12132011
Collected Date/Time: 12/13/2011 09:30
Matrix: Liquid
COC Reference: BC121311.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	0.70	ng/L	0.50	1631E	12/16/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S51024.10
Sample Tag: Field_Blank_12132011
Collected Date/Time: 12/13/2011 13:00
Matrix: Liquid
COC Reference: BC121311.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	Not detected	ng/L	0.50	1631E	12/16/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

Analytical Laboratory Report

Lab Sample ID: S51024.11
Sample Tag: Equip_Blank_12132011
Collected Date/Time: 12/13/2011 13:15
Matrix: Liquid
COC Reference: BC121311.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	LL Hg Kit	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Metals								
Mercury, Low Level	Not detected	ng/L	0.50	1631E	12/16/11 12:00	Fiber	7439-97-6	O

O-Analysis performed by outside laboratory. See attached report.

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID: BC121311.1

Send Results To:

Contact & Company Name: Mike Brennan, Micki Maki, Tony Maffeo	Telephone: 810.225.1900
Address: 10559 Citation DR, Suite 100	Fax: 810-229-8837
City State Zip: Brighton, MI 48116	E-mail Address: see comments
Project Name/Location (City, State): Buick City/ Flint, MI	Project #: B0064410.2011.00801
Sampler's Printed Name: D. Newcom, J. Kotwicki	Sampler's Signature:

Preservative	E							
Filtered (✓)								
# of Containers	3							
Container Information	1							

PARAMETER ANALYSIS & METHOD

51024 Sample ID	Collection Date	Collection Time	Type Comp	Type Grab	Matrix		Low Level Hg								REMARKS
.01 MP001_12132011	12/13/2011	1025		x	w		x								
.02 MP002_12132011	12/13/2011	1100		x	w		x								
.03 MP003_12132011	12/13/2011	1140		x	w		x								
.04 MP005_12132011	12/13/2011	1155		x	w		x								
.05 MP006_12132011	12/13/2011	1240		x	w		x								
.06 MP007_12132011	12/13/2011	1220		x	w		x								
.07 MP009_12132011	12/13/2011	1115		x	w		x								
.08 MP010_12132011	12/13/2011	1255		x	w		x								
.09 MP013_12132011	12/13/2011	0930		x	w		x								
.10 Field_Blank_12132011	12/13/2011	1300		x	w		x								
.11 Equip_Blank_12132011	12/13/2011	1315		x	w		x								

KEYS

Preservation Key:
A. H_2SO_4
B. HCL
C. NaOH
D. HNO_3
E. None
F.
G.
H.

Container Information Key:
1. 40 mL VOA
2. 1 L Amber
3. 125 mL Plastic
4. 250 mL Plastic
5. 500 mL Plastic
6. 1 L Plastic
7. 2 oz. Glass
8. 4 oz. Glass
9. 8 oz. Glass
10. Other

Matrix Key:
SE = Sediment, A = Air, SL = Sludge
SO = Soil, NL = NAPL / Oil, SW = Surface

Special Instructions/Comments: Invoice to: Ms. Monica Wallingford, Racer Trust, 2930 Ecorse Road, Ypsilanti, MI 48198, (313) 486.2928, P.O.No: MT1295a - Please also send copy of Invoicing to Micki Maki (ARCADIS).
Emails: michael.brennan@aradis-us.com; micki.maki@arcadis-us.com; tony.maffeo@arcadis-us.com

Special QA/QC Instructions (✓): Level II and EDD

Laboratory Information and Receipt		Relinquished By	Received By	Laboratory Received By
Lab Name: Merit	Cooler Custody Seal	Printed Name: D.Newcom	Printed Name: Chris Gauthier	Printed Name: Paula Stan
☑ Cooler packed with ice (✓)	☐ Intact ☐ Not Intact	Signature:	Signature:	Signature:
Specify Turnaround Requirements: Std TAT	Sample Receipt:	Firm: ARCADIS	Firm: Merit	Firm: Merit
Fed-Ex Tracking #:	Condition/Cooler Temp: 44	Date/Time: 12/13/11 1340	Date/Time: 12-13-11 1340	Date/Time: 12-13-11 1430

Analytical Laboratory Report

Report ID: S51026.01(01)
Generated on 12/20/2011

Report to

Attention: Mike Brennan/Micki Macki/Tony M.
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-229-8594 FAX: 810-229-8837
Email: Michael.Brennan@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S51026.01-S51026.15
Project: B0064410.2011.00801 / Buick City / Flint MI
Collected Date: 12/13/2011
Submitted Date/Time: 12/13/2011 14:30
Sampled by: D.Newcom, J.Kotwic
P.O. #: MLT1295

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.
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Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (15 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S51026.01	MP001_12132011	Liquid	12/13/2011 10:25
S51026.02	MP002_12132011	Liquid	12/13/2011 11:00
S51026.03	MP003_12132011	Liquid	12/13/2011 11:40
S51026.04	MP005_12132011	Liquid	12/13/2011 11:55
S51026.05	MP006_12132011	Liquid	12/13/2011 12:40
S51026.06	MP007_12132011	Liquid	12/13/2011 12:20
S51026.07	MP009_12132011	Liquid	12/13/2011 11:15
S51026.08	MP010_12132011	Liquid	12/13/2011 12:55
S51026.09	MP010_12132011 MS	Liquid	12/13/2011 12:55
S51026.10	MP010_12132011 MSD	Liquid	12/13/2011 12:55
S51026.11	MP013_12132011	Liquid	12/13/2011 09:30
S51026.12	Dup001_12132011	Liquid	12/13/2011 00:01
S51026.13	Field_Blank_12132011	Liquid	12/13/2011 13:00
S51026.14	Equip_Blank_12132011	Liquid	12/13/2011 13:15
S51026.15	Trip_Blank_12132011	Liquid	12/13/2011 00:01

Analytical Laboratory Report

Lab Sample ID: S51026.01
Sample Tag: MP001_12132011
Collected Date/Time: 12/13/2011 10:25
Matrix: Liquid
COC Reference: BC121311.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR
1	250ml Plastic	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	12/20/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	12/16/11 11:38	JDP	57-12-5	
Total Suspended Solids	4	mg/L	1	2540 D	12/19/11 14:45	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	12/19/11 19:34	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	12/19/11 19:34	SLS	7440-38-2	
Barium	0.087	mg/L	0.005	200.8	12/19/11 19:34	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	12/19/11 19:34	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	12/19/11 19:34	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	12/19/11 19:34	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	12/19/11 19:34	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	12/19/11 19:34	SLS	7440-50-8	
Lead	0.010	mg/L	0.003	200.8	12/19/11 19:34	SLS	7439-92-1	
Manganese	0.007	mg/L	0.005	200.8	12/19/11 19:34	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	12/19/11 19:34	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	12/19/11 19:34	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	12/19/11 19:34	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	12/19/11 19:34	SLS	7440-28-0	
Vanadium	Not detected	mg/L	0.004	200.8	12/19/11 19:34	SLS	7440-62-2	
Zinc	0.007	mg/L	0.005	200.8	12/19/11 19:34	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	12/16/11 14:01	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	12/16/11 14:01	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	12/16/11 14:01	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	12/16/11 14:01	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	12/16/11 14:01	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	12/16/11 14:01	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	12/16/11 14:01	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	12/16/11 14:01	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	12/16/11 14:01	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	12/16/11 14:01	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	75-35-4	

Lab Sample ID: S51026.01 (continued)
Sample Tag: MP001_12132011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Methylene chloride	Not detected	ug/L	5	8260B	12/16/11 14:01	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	75-34-3	
cis-1,2-Dichloroethene	1	ug/L	1	8260B	12/16/11 14:01	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	12/16/11 14:01	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	12/16/11 14:01	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	12/16/11 14:01	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	12/16/11 14:01	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	12/16/11 14:01	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	12/16/11 14:01	WAT		
o-Xylene	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	12/16/11 14:01	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	12/16/11 14:01	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 14:01	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	12/16/11 14:01	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	12/16/11 14:01	WAT	96-12-8	

Analytical Laboratory Report

Lab Sample ID: S51026.01 (continued)
Sample Tag: MP001_12132011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	12/16/11 14:01	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	12/16/11 14:01	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	12/16/11 14:01	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	12/16/11 14:01	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S51026.02
Sample Tag: MP002_12132011
Collected Date/Time: 12/13/2011 11:00
Matrix: Liquid
COC Reference: BC121311.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR
1	250ml Plastic	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	12/20/11 01:00	SLR		
Inorganics								
Cyanide	0.020	mg/L	0.005	335.4/4500-CN-E	12/16/11 11:40	JDP	57-12-5	
Total Suspended Solids	13	mg/L	1	2540 D	12/19/11 14:45	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	12/19/11 19:39	SLS	7440-36-0	
Arsenic	0.009	mg/L	0.002	200.8	12/19/11 19:39	SLS	7440-38-2	
Barium	0.307	mg/L	0.005	200.8	12/19/11 19:39	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	12/19/11 19:39	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	12/19/11 19:39	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	12/19/11 19:39	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	12/19/11 19:39	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	12/19/11 19:39	SLS	7440-50-8	
Lead	0.006	mg/L	0.003	200.8	12/19/11 19:39	SLS	7439-92-1	
Manganese	0.590	mg/L	0.005	200.8	12/19/11 19:39	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	12/19/11 19:39	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	12/19/11 19:39	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	12/19/11 19:39	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	12/19/11 19:39	SLS	7440-28-0	
Vanadium	Not detected	mg/L	0.004	200.8	12/19/11 19:39	SLS	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	12/19/11 19:39	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	12/16/11 14:22	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	12/16/11 14:22	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	12/16/11 14:22	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	12/16/11 14:22	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	12/16/11 14:22	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	12/16/11 14:22	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	12/16/11 14:22	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	12/16/11 14:22	WAT	74-87-3	
Vinyl chloride	1	ug/L	1	8260B	12/16/11 14:22	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	12/16/11 14:22	WAT	74-83-9	
Chloroethane	13	ug/L	5	8260B	12/16/11 14:22	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	75-35-4	

Lab Sample ID: S51026.02 (continued)
Sample Tag: MP002_12132011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Methylene chloride	Not detected	ug/L	5	8260B	12/16/11 14:22	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	156-60-5	
1,1-Dichloroethane	9	ug/L	1	8260B	12/16/11 14:22	WAT	75-34-3	
cis-1,2-Dichloroethene	19	ug/L	1	8260B	12/16/11 14:22	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	12/16/11 14:22	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	74-97-5	
1,1,1-Trichloroethane	5	ug/L	1	8260B	12/16/11 14:22	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	12/16/11 14:22	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	12/16/11 14:22	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	107-06-2	
Trichloroethene	4	ug/L	1	8260B	12/16/11 14:22	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	12/16/11 14:22	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	12/16/11 14:22	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	12/16/11 14:22	WAT		
o-Xylene	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	12/16/11 14:22	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	12/16/11 14:22	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 14:22	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	12/16/11 14:22	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	12/16/11 14:22	WAT	96-12-8	

Lab Sample ID: S51026.02 (continued)
Sample Tag: MP002_12132011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	12/16/11 14:22	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	12/16/11 14:22	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	12/16/11 14:22	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	12/16/11 14:22	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S51026.03
Sample Tag: MP003_12132011
Collected Date/Time: 12/13/2011 11:40
Matrix: Liquid
COC Reference: BC121311.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR
1	250ml Plastic	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	12/20/11 01:00	SLR		
Inorganics								
Cyanide	0.010	mg/L	0.005	335.4/4500-CN-E	12/16/11 11:42	JDP	57-12-5	
Total Suspended Solids	18	mg/L	1	2540 D	12/19/11 14:45	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	12/19/11 19:43	SLS	7440-36-0	
Arsenic	0.008	mg/L	0.002	200.8	12/19/11 19:43	SLS	7440-38-2	
Barium	0.186	mg/L	0.005	200.8	12/19/11 19:43	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	12/19/11 19:43	SLS	7440-41-7	
Cadmium	0.0005	mg/L	0.0005	200.8	12/19/11 19:43	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	12/19/11 19:43	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	12/19/11 19:43	SLS	7440-48-4	
Copper	0.008	mg/L	0.004	200.8	12/19/11 19:43	SLS	7440-50-8	
Lead	0.020	mg/L	0.003	200.8	12/19/11 19:43	SLS	7439-92-1	
Manganese	0.686	mg/L	0.005	200.8	12/19/11 19:43	SLS	7439-96-5	
Nickel	0.010	mg/L	0.005	200.8	12/19/11 19:43	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	12/19/11 19:43	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	12/19/11 19:43	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	12/19/11 19:43	SLS	7440-28-0	
Vanadium	Not detected	mg/L	0.004	200.8	12/19/11 19:43	SLS	7440-62-2	
Zinc	0.050	mg/L	0.005	200.8	12/19/11 19:43	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	12/16/11 14:41	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	12/16/11 14:41	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	12/16/11 14:41	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	12/16/11 14:41	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	12/16/11 14:41	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	12/16/11 14:41	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	12/16/11 14:41	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	12/16/11 14:41	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	12/16/11 14:41	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	12/16/11 14:41	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	75-35-4	

Lab Sample ID: S51026.03 (continued)
Sample Tag: MP003_12132011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Methylene chloride	Not detected	ug/L	5	8260B	12/16/11 14:41	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	75-34-3	
cis-1,2-Dichloroethene	1	ug/L	1	8260B	12/16/11 14:41	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	12/16/11 14:41	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	12/16/11 14:41	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	12/16/11 14:41	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	107-06-2	
Trichloroethene	2	ug/L	1	8260B	12/16/11 14:41	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	12/16/11 14:41	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	12/16/11 14:41	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	12/16/11 14:41	WAT		
o-Xylene	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	12/16/11 14:41	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	12/16/11 14:41	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 14:41	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	12/16/11 14:41	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	12/16/11 14:41	WAT	96-12-8	

Lab Sample ID: S51026.03 (continued)
Sample Tag: MP003_12132011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	12/16/11 14:41	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	12/16/11 14:41	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	12/16/11 14:41	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	12/16/11 14:41	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S51026.04
Sample Tag: MP005_12132011
Collected Date/Time: 12/13/2011 11:55
Matrix: Liquid
COC Reference: BC121311.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR
1	250ml Plastic	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	12/20/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	12/16/11 11:44	JDP	57-12-5	
Total Suspended Solids	59	mg/L	1	2540 D	12/19/11 14:45	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	12/19/11 19:48	SLS	7440-36-0	
Arsenic	0.013	mg/L	0.002	200.8	12/19/11 19:48	SLS	7440-38-2	
Barium	0.102	mg/L	0.005	200.8	12/19/11 19:48	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	12/19/11 19:48	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	12/19/11 19:48	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	12/19/11 19:48	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	12/19/11 19:48	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	12/19/11 19:48	SLS	7440-50-8	
Lead	0.191	mg/L	0.003	200.8	12/19/11 19:48	SLS	7439-92-1	
Manganese	0.226	mg/L	0.005	200.8	12/19/11 19:48	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	12/19/11 19:48	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	12/19/11 19:48	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	12/19/11 19:48	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	12/19/11 19:48	SLS	7440-28-0	
Vanadium	Not detected	mg/L	0.004	200.8	12/19/11 19:48	SLS	7440-62-2	
Zinc	0.016	mg/L	0.005	200.8	12/19/11 19:48	SLS	7440-66-6	

Analytical Laboratory Report

Lab Sample ID: S51026.05
Sample Tag: MP006_12132011
Collected Date/Time: 12/13/2011 12:40
Matrix: Liquid
COC Reference: BC121311.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR
1	250ml Plastic	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	12/20/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	12/16/11 11:46	JDP	57-12-5	
Total Suspended Solids	3	mg/L	1	2540 D	12/19/11 14:45	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	12/19/11 19:53	SLS	7440-36-0	
Arsenic	0.002	mg/L	0.002	200.8	12/19/11 19:53	SLS	7440-38-2	
Barium	0.093	mg/L	0.005	200.8	12/19/11 19:53	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	12/19/11 19:53	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	12/19/11 19:53	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	12/19/11 19:53	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	12/19/11 19:53	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	12/19/11 19:53	SLS	7440-50-8	
Lead	0.004	mg/L	0.003	200.8	12/19/11 19:53	SLS	7439-92-1	
Manganese	0.515	mg/L	0.005	200.8	12/19/11 19:53	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	12/19/11 19:53	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	12/19/11 19:53	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	12/19/11 19:53	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	12/19/11 19:53	SLS	7440-28-0	
Vanadium	Not detected	mg/L	0.004	200.8	12/19/11 19:53	SLS	7440-62-2	
Zinc	0.009	mg/L	0.005	200.8	12/19/11 19:53	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	12/16/11 15:01	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	12/16/11 15:01	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	12/16/11 15:01	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	12/16/11 15:01	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	12/16/11 15:01	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	12/16/11 15:01	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	12/16/11 15:01	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	12/16/11 15:01	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	12/16/11 15:01	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	12/16/11 15:01	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	75-35-4	

Lab Sample ID: S51026.05 (continued)
Sample Tag: MP006_12132011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Methylene chloride	Not detected	ug/L	5	8260B	12/16/11 15:01	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	12/16/11 15:01	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	12/16/11 15:01	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	12/16/11 15:01	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	12/16/11 15:01	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	12/16/11 15:01	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	12/16/11 15:01	WAT		
o-Xylene	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	12/16/11 15:01	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	12/16/11 15:01	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 15:01	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	12/16/11 15:01	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	12/16/11 15:01	WAT	96-12-8	

Lab Sample ID: S51026.05 (continued)
Sample Tag: MP006_12132011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	12/16/11 15:01	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	12/16/11 15:01	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	12/16/11 15:01	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	12/16/11 15:01	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S51026.06
Sample Tag: MP007_12132011
Collected Date/Time: 12/13/2011 12:20
Matrix: Liquid
COC Reference: BC121311.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR
1	250ml Plastic	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	12/20/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	12/16/11 11:48	JDP	57-12-5	
Total Suspended Solids	31	mg/L	1	2540 D	12/19/11 14:45	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	12/19/11 20:26	SLS	7440-36-0	
Arsenic	0.007	mg/L	0.002	200.8	12/19/11 20:26	SLS	7440-38-2	
Barium	0.087	mg/L	0.005	200.8	12/19/11 20:26	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	12/19/11 20:26	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	12/19/11 20:26	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	12/19/11 20:26	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	12/19/11 20:26	SLS	7440-48-4	
Copper	0.010	mg/L	0.004	200.8	12/19/11 20:26	SLS	7440-50-8	
Lead	0.018	mg/L	0.003	200.8	12/19/11 20:26	SLS	7439-92-1	
Manganese	0.394	mg/L	0.005	200.8	12/19/11 20:26	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	12/19/11 20:26	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	12/19/11 20:26	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	12/19/11 20:26	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	12/19/11 20:26	SLS	7440-28-0	
Vanadium	Not detected	mg/L	0.004	200.8	12/19/11 20:26	SLS	7440-62-2	
Zinc	0.088	mg/L	0.005	200.8	12/19/11 20:26	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	12/16/11 15:21	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	12/16/11 15:21	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	12/16/11 15:21	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	12/16/11 15:21	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	12/16/11 15:21	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	12/16/11 15:21	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	12/16/11 15:21	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	12/16/11 15:21	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	12/16/11 15:21	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	12/16/11 15:21	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	75-35-4	

Lab Sample ID: S51026.06 (continued)
Sample Tag: MP007_12132011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Methylene chloride	Not detected	ug/L	5	8260B	12/16/11 15:21	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	12/16/11 15:21	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	12/16/11 15:21	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	12/16/11 15:21	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	12/16/11 15:21	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	12/16/11 15:21	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	12/16/11 15:21	WAT		
o-Xylene	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	12/16/11 15:21	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	12/16/11 15:21	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 15:21	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	12/16/11 15:21	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	12/16/11 15:21	WAT	96-12-8	

Lab Sample ID: S51026.06 (continued)
Sample Tag: MP007_12132011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	12/16/11 15:21	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	12/16/11 15:21	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	12/16/11 15:21	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	12/16/11 15:21	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S51026.07
Sample Tag: MP009_12132011
Collected Date/Time: 12/13/2011 11:15
Matrix: Liquid
COC Reference: BC121311.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR
1	250ml Plastic	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	12/20/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	12/16/11 11:50	JDP	57-12-5	
Total Suspended Solids	39	mg/L	1	2540 D	12/19/11 14:45	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	12/19/11 20:31	SLS	7440-36-0	
Arsenic	0.012	mg/L	0.002	200.8	12/19/11 20:31	SLS	7440-38-2	
Barium	0.654	mg/L	0.005	200.8	12/19/11 20:31	SLS	7440-39-3	
Beryllium	0.001	mg/L	0.001	200.8	12/19/11 20:31	SLS	7440-41-7	
Cadmium	0.0131	mg/L	0.0005	200.8	12/19/11 20:31	SLS	7440-43-9	
Chromium	0.051	mg/L	0.005	200.8	12/19/11 20:31	SLS	7440-47-3	
Cobalt	0.009	mg/L	0.005	200.8	12/19/11 20:31	SLS	7440-48-4	
Copper	0.150	mg/L	0.004	200.8	12/19/11 20:31	SLS	7440-50-8	
Lead	0.476	mg/L	0.003	200.8	12/19/11 20:31	SLS	7439-92-1	
Manganese	2.13	mg/L	0.005	200.8	12/19/11 20:31	SLS	7439-96-5	
Nickel	0.036	mg/L	0.005	200.8	12/19/11 20:31	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	12/19/11 20:31	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	12/19/11 20:31	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	12/19/11 20:31	SLS	7440-28-0	
Vanadium	0.021	mg/L	0.004	200.8	12/19/11 20:31	SLS	7440-62-2	
Zinc	1.89	mg/L	0.005	200.8	12/19/11 20:31	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	12/16/11 15:41	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	12/16/11 15:41	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	12/16/11 15:41	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	12/16/11 15:41	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	12/16/11 15:41	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	12/16/11 15:41	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	12/16/11 15:41	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	12/16/11 15:41	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	12/16/11 15:41	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	12/16/11 15:41	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	75-35-4	

Lab Sample ID: S51026.07 (continued)
Sample Tag: MP009_12132011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Methylene chloride	Not detected	ug/L	5	8260B	12/16/11 15:41	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	75-34-3	
cis-1,2-Dichloroethene	10	ug/L	1	8260B	12/16/11 15:41	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	12/16/11 15:41	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	12/16/11 15:41	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	12/16/11 15:41	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	107-06-2	
Trichloroethene	5	ug/L	1	8260B	12/16/11 15:41	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	12/16/11 15:41	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	12/16/11 15:41	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	12/16/11 15:41	WAT		
o-Xylene	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	12/16/11 15:41	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	12/16/11 15:41	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 15:41	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	12/16/11 15:41	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	12/16/11 15:41	WAT	96-12-8	

Lab Sample ID: S51026.07 (continued)
Sample Tag: MP009_12132011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	12/16/11 15:41	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	12/16/11 15:41	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	12/16/11 15:41	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	12/16/11 15:41	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S51026.08
Sample Tag: MP010_12132011
Collected Date/Time: 12/13/2011 12:55
Matrix: Liquid
COC Reference: BC121311.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR
1	250ml Plastic	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	12/20/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	12/16/11 11:52	JDP	57-12-5	
Total Suspended Solids	7	mg/L	1	2540 D	12/19/11 14:45	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	12/19/11 20:45	SLS	7440-36-0	
Arsenic	0.002	mg/L	0.002	200.8	12/19/11 20:45	SLS	7440-38-2	
Barium	0.113	mg/L	0.005	200.8	12/19/11 20:45	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	12/19/11 20:45	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	12/19/11 20:45	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	12/19/11 20:45	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	12/19/11 20:45	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	12/19/11 20:45	SLS	7440-50-8	
Lead	0.006	mg/L	0.003	200.8	12/19/11 20:45	SLS	7439-92-1	
Manganese	0.306	mg/L	0.005	200.8	12/19/11 20:45	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	12/19/11 20:45	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	12/19/11 20:45	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	12/19/11 20:45	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	12/19/11 20:45	SLS	7440-28-0	
Vanadium	Not detected	mg/L	0.004	200.8	12/19/11 20:45	SLS	7440-62-2	
Zinc	0.017	mg/L	0.005	200.8	12/19/11 20:45	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	12/16/11 16:01	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	12/16/11 16:01	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	12/16/11 16:01	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	12/16/11 16:01	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	12/16/11 16:01	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	12/16/11 16:01	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	12/16/11 16:01	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	12/16/11 16:01	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	12/16/11 16:01	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	12/16/11 16:01	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	75-35-4	

Lab Sample ID: S51026.08 (continued)
Sample Tag: MP010_12132011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Methylene chloride	Not detected	ug/L	5	8260B	12/16/11 16:01	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	75-34-3	
cis-1,2-Dichloroethene	1	ug/L	1	8260B	12/16/11 16:01	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	12/16/11 16:01	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	12/16/11 16:01	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	12/16/11 16:01	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	12/16/11 16:01	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	12/16/11 16:01	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	12/16/11 16:01	WAT		
o-Xylene	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	12/16/11 16:01	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	12/16/11 16:01	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 16:01	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	12/16/11 16:01	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	12/16/11 16:01	WAT	96-12-8	

Lab Sample ID: S51026.08 (continued)
Sample Tag: MP010_12132011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	12/16/11 16:01	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	12/16/11 16:01	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	12/16/11 16:01	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	12/16/11 16:01	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S51026.09
Sample Tag: MP010_12132011 MS
Collected Date/Time: 12/13/2011 12:55
Matrix: Liquid
COC Reference: BC121311.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR
1	250ml Plastic	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	12/20/11 01:00	SLR		
Inorganics								
Cyanide	0.093	mg/L	0.005	335.4/4500-CN-E	12/16/11 11:56	JDP	57-12-5	
Total Suspended Solids	10	mg/L	1	2540 D	12/19/11 14:45	DJS		
Metals								
Antimony	0.271	mg/L	0.005	200.8	12/19/11 20:50	SLS	7440-36-0	
Arsenic	0.272	mg/L	0.002	200.8	12/19/11 20:50	SLS	7440-38-2	
Barium	0.378	mg/L	0.005	200.8	12/19/11 20:50	SLS	7440-39-3	
Beryllium	0.280	mg/L	0.001	200.8	12/19/11 20:50	SLS	7440-41-7	
Cadmium	0.2603	mg/L	0.0005	200.8	12/19/11 20:50	SLS	7440-43-9	
Chromium	0.270	mg/L	0.005	200.8	12/19/11 20:50	SLS	7440-47-3	
Cobalt	0.263	mg/L	0.005	200.8	12/19/11 20:50	SLS	7440-48-4	
Copper	0.260	mg/L	0.004	200.8	12/19/11 20:50	SLS	7440-50-8	
Lead	0.262	mg/L	0.003	200.8	12/19/11 20:50	SLS	7439-92-1	
Manganese	0.559	mg/L	0.005	200.8	12/19/11 20:50	SLS	7439-96-5	
Nickel	0.265	mg/L	0.005	200.8	12/19/11 20:50	SLS	7440-02-0	
Selenium	0.279	mg/L	0.005	200.8	12/19/11 20:50	SLS	7782-49-2	
Silver	0.2537	mg/L	0.0005	200.8	12/19/11 20:50	SLS	7440-22-4	
Thallium	0.260	mg/L	0.002	200.8	12/19/11 20:50	SLS	7440-28-0	
Vanadium	0.273	mg/L	0.004	200.8	12/19/11 20:50	SLS	7440-62-2	
Zinc	0.277	mg/L	0.005	200.8	12/19/11 20:50	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	49	ug/L	10	8260B	12/16/11 21:59	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	8260B	12/16/11 21:59	WAT	67-64-1	1
Methyl iodide	47	ug/L	1	8260B	12/16/11 21:59	WAT	74-88-4	1
Carbon disulfide	47	ug/L	5	8260B	12/16/11 21:59	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	48	ug/L	5	8260B	12/16/11 21:59	WAT	1634-04-4	1
Acrylonitrile	48	ug/L	2	8260B	12/16/11 21:59	WAT	107-13-1	1
2-Butanone (MEK)	32	ug/L	25	8260B	12/16/11 21:59	WAT	78-93-3	1
Dichlorodifluoromethane	43	ug/L	5	8260B	12/16/11 21:59	WAT	75-71-8	1
Chloromethane	44	ug/L	5	8260B	12/16/11 21:59	WAT	74-87-3	1
Vinyl chloride	45	ug/L	1	8260B	12/16/11 21:59	WAT	75-01-4	1
Bromomethane	59	ug/L	5	8260B	12/16/11 21:59	WAT	74-83-9	1
Chloroethane	60	ug/L	5	8260B	12/16/11 21:59	WAT	75-00-3	1
Trichlorofluoromethane	57	ug/L	1	8260B	12/16/11 21:59	WAT	75-69-4	1

1-Spiked at 50ug/l

Lab Sample ID: S51026.09 (continued)
Sample Tag: MP010_12132011 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	47	ug/L	1	8260B	12/16/11 21:59	WAT	75-35-4	1
Methylene chloride	48	ug/L	5	8260B	12/16/11 21:59	WAT	75-09-2	1
trans-1,2-Dichloroethene	48	ug/L	1	8260B	12/16/11 21:59	WAT	156-60-5	1
1,1-Dichloroethane	48	ug/L	1	8260B	12/16/11 21:59	WAT	75-34-3	1
cis-1,2-Dichloroethene	51	ug/L	1	8260B	12/16/11 21:59	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	8260B	12/16/11 21:59	WAT	109-99-9	1
Chloroform	50	ug/L	1	8260B	12/16/11 21:59	WAT	67-66-3	1
Bromochloromethane	51	ug/L	1	8260B	12/16/11 21:59	WAT	74-97-5	1
1,1,1-Trichloroethane	50	ug/L	1	8260B	12/16/11 21:59	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	12/16/11 21:59	WAT	108-10-1	1
2-Hexanone	Not detected	ug/L	50	8260B	12/16/11 21:59	WAT	591-78-6	1
Carbon tetrachloride	51	ug/L	1	8260B	12/16/11 21:59	WAT	56-23-5	1
Benzene	50	ug/L	1	8260B	12/16/11 21:59	WAT	71-43-2	1
1,2-Dichloroethane	50	ug/L	1	8260B	12/16/11 21:59	WAT	107-06-2	1
Trichloroethene	50	ug/L	1	8260B	12/16/11 21:59	WAT	79-01-6	1
1,2-Dichloropropane	51	ug/L	1	8260B	12/16/11 21:59	WAT	78-87-5	1
Bromodichloromethane	51	ug/L	1	8260B	12/16/11 21:59	WAT	75-27-4	1
Dibromomethane	51	ug/L	5	8260B	12/16/11 21:59	WAT	74-95-3	1
cis-1,3-Dichloropropene	50	ug/L	1	8260B	12/16/11 21:59	WAT	10061-01-5	1
Toluene	51	ug/L	1	8260B	12/16/11 21:59	WAT	108-88-3	1
trans-1,3-Dichloropropene	45	ug/L	1	8260B	12/16/11 21:59	WAT	10061-02-6	1
1,1,2-Trichloroethane	50	ug/L	1	8260B	12/16/11 21:59	WAT	79-00-5	1
Tetrachloroethene	49	ug/L	1	8260B	12/16/11 21:59	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	47	ug/L	1	8260B	12/16/11 21:59	WAT	110-57-6	1
Dibromochloromethane	53	ug/L	5	8260B	12/16/11 21:59	WAT	124-48-1	1
1,2-Dibromoethane	52	ug/L	1	8260B	12/16/11 21:59	WAT	106-93-4	1
Chlorobenzene	51	ug/L	1	8260B	12/16/11 21:59	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	54	ug/L	1	8260B	12/16/11 21:59	WAT	630-20-6	1
Ethylbenzene	51	ug/L	1	8260B	12/16/11 21:59	WAT	100-41-4	1
p,m-Xylene	103	ug/L	2	8260B	12/16/11 21:59	WAT		1
o-Xylene	52	ug/L	1	8260B	12/16/11 21:59	WAT	95-47-6	1
Styrene	44	ug/L	1	8260B	12/16/11 21:59	WAT	100-42-5	1
Isopropylbenzene	52	ug/L	5	8260B	12/16/11 21:59	WAT	98-82-8	1
Bromoform	51	ug/L	1	8260B	12/16/11 21:59	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	53	ug/L	1	8260B	12/16/11 21:59	WAT	79-34-5	1
1,2,3-Trichloropropane	54	ug/L	1	8260B	12/16/11 21:59	WAT	96-18-4	1
n-Propylbenzene	52	ug/L	1	8260B	12/16/11 21:59	WAT	103-65-1	1
Bromobenzene	52	ug/L	1	8260B	12/16/11 21:59	WAT	108-86-1	1
1,3,5-Trimethylbenzene	51	ug/L	1	8260B	12/16/11 21:59	WAT	108-67-8	1
tert-Butylbenzene	52	ug/L	1	8260B	12/16/11 21:59	WAT	98-06-6	1
1,2,4-Trimethylbenzene	52	ug/L	1	8260B	12/16/11 21:59	WAT	95-63-6	1
sec-Butylbenzene	50	ug/L	1	8260B	12/16/11 21:59	WAT	135-98-8	1
p-Isopropyltoluene	51	ug/L	5	8260B	12/16/11 21:59	WAT	99-87-6	1
1,3-Dichlorobenzene	50	ug/L	1	8260B	12/16/11 21:59	WAT	541-73-1	1
1,4-Dichlorobenzene	48	ug/L	1	8260B	12/16/11 21:59	WAT	106-46-7	1
1,2-Dichlorobenzene	50	ug/L	1	8260B	12/16/11 21:59	WAT	95-50-1	1
1,2,3-Trimethylbenzene	47	ug/L	1	8260B	12/16/11 21:59	WAT	526-73-8	1
n-Butylbenzene	49	ug/L	1	8260B	12/16/11 21:59	WAT	104-51-8	1

1-Spiked at 50ug/l

Lab Sample ID: S51026.09 (continued)
Sample Tag: MP010_12132011 MS

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Hexachloroethane	44	ug/L	5	8260B	12/16/11 21:59	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	49	ug/L	5	8260B	12/16/11 21:59	WAT	96-12-8	1
1,2,4-Trichlorobenzene	47	ug/L	5	8260B	12/16/11 21:59	WAT	120-82-1	1
1,2,3-Trichlorobenzene	49	ug/L	5	8260B	12/16/11 21:59	WAT	87-61-6	1
Naphthalene	50	ug/L	5	8260B	12/16/11 21:59	WAT	91-20-3	1
2-Methylnaphthalene	40	ug/L	5	8260B	12/16/11 21:59	WAT	91-57-6	1

1-Spiked at 50ug/l

Analytical Laboratory Report

Lab Sample ID: S51026.10
Sample Tag: MP010_12132011 MSD
Collected Date/Time: 12/13/2011 12:55
Matrix: Liquid
COC Reference: BC121311.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR
1	250ml Plastic	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	12/20/11 01:00	SLR		
Inorganics								
Cyanide	0.094	mg/L	0.005	335.4/4500-CN-E	12/16/11 11:58	JDP	57-12-5	
Total Suspended Solids	12	mg/L	1	2540 D	12/19/11 14:45	DJS		
Metals								
Antimony	0.261	mg/L	0.005	200.8	12/19/11 20:55	SLS	7440-36-0	
Arsenic	0.263	mg/L	0.002	200.8	12/19/11 20:55	SLS	7440-38-2	
Barium	0.382	mg/L	0.005	200.8	12/19/11 20:55	SLS	7440-39-3	
Beryllium	0.267	mg/L	0.001	200.8	12/19/11 20:55	SLS	7440-41-7	
Cadmium	0.2532	mg/L	0.0005	200.8	12/19/11 20:55	SLS	7440-43-9	
Chromium	0.264	mg/L	0.005	200.8	12/19/11 20:55	SLS	7440-47-3	
Cobalt	0.256	mg/L	0.005	200.8	12/19/11 20:55	SLS	7440-48-4	
Copper	0.257	mg/L	0.004	200.8	12/19/11 20:55	SLS	7440-50-8	
Lead	0.256	mg/L	0.003	200.8	12/19/11 20:55	SLS	7439-92-1	
Manganese	0.624	mg/L	0.005	200.8	12/19/11 20:55	SLS	7439-96-5	
Nickel	0.257	mg/L	0.005	200.8	12/19/11 20:55	SLS	7440-02-0	
Selenium	0.267	mg/L	0.005	200.8	12/19/11 20:55	SLS	7782-49-2	
Silver	0.2466	mg/L	0.0005	200.8	12/19/11 20:55	SLS	7440-22-4	
Thallium	0.251	mg/L	0.002	200.8	12/19/11 20:55	SLS	7440-28-0	
Vanadium	0.267	mg/L	0.004	200.8	12/19/11 20:55	SLS	7440-62-2	
Zinc	0.293	mg/L	0.005	200.8	12/19/11 20:55	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	54	ug/L	10	8260B	12/16/11 22:19	WAT	60-29-7	1
Acetone	Not detected	ug/L	50	8260B	12/16/11 22:19	WAT	67-64-1	1
Methyl iodide	54	ug/L	1	8260B	12/16/11 22:19	WAT	74-88-4	1
Carbon disulfide	56	ug/L	5	8260B	12/16/11 22:19	WAT	75-15-0	1
tert-Methyl butyl ether (MTBE)	56	ug/L	5	8260B	12/16/11 22:19	WAT	1634-04-4	1
Acrylonitrile	56	ug/L	2	8260B	12/16/11 22:19	WAT	107-13-1	1
2-Butanone (MEK)	36	ug/L	25	8260B	12/16/11 22:19	WAT	78-93-3	1
Dichlorodifluoromethane	50	ug/L	5	8260B	12/16/11 22:19	WAT	75-71-8	1
Chloromethane	50	ug/L	5	8260B	12/16/11 22:19	WAT	74-87-3	1
Vinyl chloride	51	ug/L	1	8260B	12/16/11 22:19	WAT	75-01-4	1
Bromomethane	68	ug/L	5	8260B	12/16/11 22:19	WAT	74-83-9	1
Chloroethane	70	ug/L	5	8260B	12/16/11 22:19	WAT	75-00-3	1
Trichlorofluoromethane	66	ug/L	1	8260B	12/16/11 22:19	WAT	75-69-4	1

1-Spiked at 50ug/l

Lab Sample ID: S51026.10 (continued)
Sample Tag: MP010_12132011 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethene	54	ug/L	1	8260B	12/16/11 22:19	WAT	75-35-4	1
Methylene chloride	55	ug/L	5	8260B	12/16/11 22:19	WAT	75-09-2	1
trans-1,2-Dichloroethene	55	ug/L	1	8260B	12/16/11 22:19	WAT	156-60-5	1
1,1-Dichloroethane	54	ug/L	1	8260B	12/16/11 22:19	WAT	75-34-3	1
cis-1,2-Dichloroethene	57	ug/L	1	8260B	12/16/11 22:19	WAT	156-59-2	1
Tetrahydrofuran	Not detected	ug/L	90	8260B	12/16/11 22:19	WAT	109-99-9	1
Chloroform	55	ug/L	1	8260B	12/16/11 22:19	WAT	67-66-3	1
Bromochloromethane	57	ug/L	1	8260B	12/16/11 22:19	WAT	74-97-5	1
1,1,1-Trichloroethane	58	ug/L	1	8260B	12/16/11 22:19	WAT	71-55-6	1
4-Methyl-2-pentanone (MIBK)	54	ug/L	50	8260B	12/16/11 22:19	WAT	108-10-1	1
2-Hexanone	Not detected	ug/L	50	8260B	12/16/11 22:19	WAT	591-78-6	1
Carbon tetrachloride	59	ug/L	1	8260B	12/16/11 22:19	WAT	56-23-5	1
Benzene	55	ug/L	1	8260B	12/16/11 22:19	WAT	71-43-2	1
1,2-Dichloroethane	55	ug/L	1	8260B	12/16/11 22:19	WAT	107-06-2	1
Trichloroethene	56	ug/L	1	8260B	12/16/11 22:19	WAT	79-01-6	1
1,2-Dichloropropane	56	ug/L	1	8260B	12/16/11 22:19	WAT	78-87-5	1
Bromodichloromethane	58	ug/L	1	8260B	12/16/11 22:19	WAT	75-27-4	1
Dibromomethane	57	ug/L	5	8260B	12/16/11 22:19	WAT	74-95-3	1
cis-1,3-Dichloropropene	58	ug/L	1	8260B	12/16/11 22:19	WAT	10061-01-5	1
Toluene	57	ug/L	1	8260B	12/16/11 22:19	WAT	108-88-3	1
trans-1,3-Dichloropropene	52	ug/L	1	8260B	12/16/11 22:19	WAT	10061-02-6	1
1,1,2-Trichloroethane	58	ug/L	1	8260B	12/16/11 22:19	WAT	79-00-5	1
Tetrachloroethene	57	ug/L	1	8260B	12/16/11 22:19	WAT	127-18-4	1
trans-1,4-Dichloro-2-butene	51	ug/L	1	8260B	12/16/11 22:19	WAT	110-57-6	1
Dibromochloromethane	59	ug/L	5	8260B	12/16/11 22:19	WAT	124-48-1	1
1,2-Dibromoethane	57	ug/L	1	8260B	12/16/11 22:19	WAT	106-93-4	1
Chlorobenzene	56	ug/L	1	8260B	12/16/11 22:19	WAT	108-90-7	1
1,1,1,2-Tetrachloroethane	59	ug/L	1	8260B	12/16/11 22:19	WAT	630-20-6	1
Ethylbenzene	57	ug/L	1	8260B	12/16/11 22:19	WAT	100-41-4	1
p,m-Xylene	114	ug/L	2	8260B	12/16/11 22:19	WAT		1
o-Xylene	57	ug/L	1	8260B	12/16/11 22:19	WAT	95-47-6	1
Styrene	47	ug/L	1	8260B	12/16/11 22:19	WAT	100-42-5	1
Isopropylbenzene	57	ug/L	5	8260B	12/16/11 22:19	WAT	98-82-8	1
Bromoform	57	ug/L	1	8260B	12/16/11 22:19	WAT	75-25-2	1
1,1,2,2-Tetrachloroethane	59	ug/L	1	8260B	12/16/11 22:19	WAT	79-34-5	1
1,2,3-Trichloropropane	60	ug/L	1	8260B	12/16/11 22:19	WAT	96-18-4	1
n-Propylbenzene	58	ug/L	1	8260B	12/16/11 22:19	WAT	103-65-1	1
Bromobenzene	58	ug/L	1	8260B	12/16/11 22:19	WAT	108-86-1	1
1,3,5-Trimethylbenzene	55	ug/L	1	8260B	12/16/11 22:19	WAT	108-67-8	1
tert-Butylbenzene	57	ug/L	1	8260B	12/16/11 22:19	WAT	98-06-6	1
1,2,4-Trimethylbenzene	57	ug/L	1	8260B	12/16/11 22:19	WAT	95-63-6	1
sec-Butylbenzene	56	ug/L	1	8260B	12/16/11 22:19	WAT	135-98-8	1
p-Isopropyltoluene	57	ug/L	5	8260B	12/16/11 22:19	WAT	99-87-6	1
1,3-Dichlorobenzene	55	ug/L	1	8260B	12/16/11 22:19	WAT	541-73-1	1
1,4-Dichlorobenzene	54	ug/L	1	8260B	12/16/11 22:19	WAT	106-46-7	1
1,2-Dichlorobenzene	55	ug/L	1	8260B	12/16/11 22:19	WAT	95-50-1	1
1,2,3-Trimethylbenzene	52	ug/L	1	8260B	12/16/11 22:19	WAT	526-73-8	1
n-Butylbenzene	55	ug/L	1	8260B	12/16/11 22:19	WAT	104-51-8	1

1-Spiked at 50ug/l

Lab Sample ID: S51026.10 (continued)
Sample Tag: MP010_12132011 MSD

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Hexachloroethane	50	ug/L	5	8260B	12/16/11 22:19	WAT	67-72-1	1
1,2-Dibromo-3-chloropropane	55	ug/L	5	8260B	12/16/11 22:19	WAT	96-12-8	1
1,2,4-Trichlorobenzene	54	ug/L	5	8260B	12/16/11 22:19	WAT	120-82-1	1
1,2,3-Trichlorobenzene	58	ug/L	5	8260B	12/16/11 22:19	WAT	87-61-6	1
Naphthalene	58	ug/L	5	8260B	12/16/11 22:19	WAT	91-20-3	1
2-Methylnaphthalene	52	ug/L	5	8260B	12/16/11 22:19	WAT	91-57-6	1

1-Spiked at 50ug/l

Analytical Laboratory Report

Lab Sample ID: S51026.11
Sample Tag: MP013_12132011
Collected Date/Time: 12/13/2011 09:30
Matrix: Liquid
COC Reference: BC121311.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR
1	250ml Plastic	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	12/20/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	12/16/11 12:00	JDP	57-12-5	
Total Suspended Solids	6	mg/L	1	2540 D	12/19/11 14:45	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	12/19/11 20:36	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	12/19/11 20:36	SLS	7440-38-2	
Barium	0.088	mg/L	0.005	200.8	12/19/11 20:36	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	12/19/11 20:36	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	12/19/11 20:36	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	12/19/11 20:36	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	12/19/11 20:36	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	12/19/11 20:36	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	12/19/11 20:36	SLS	7439-92-1	
Manganese	0.098	mg/L	0.005	200.8	12/19/11 20:36	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	12/19/11 20:36	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	12/19/11 20:36	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	12/19/11 20:36	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	12/19/11 20:36	SLS	7440-28-0	
Vanadium	Not detected	mg/L	0.004	200.8	12/19/11 20:36	SLS	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	12/19/11 20:36	SLS	7440-66-6	

Analytical Laboratory Report

Lab Sample ID: S51026.12
Sample Tag: Dup001_12132011
Collected Date/Time: 12/13/2011 00:01
Matrix: Liquid
COC Reference: BC121311.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR
1	250ml Plastic	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	12/20/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	12/16/11 12:02	JDP	57-12-5	
Total Suspended Solids	9	mg/L	1	2540 D	12/19/11 14:45	DJS		
Metals								
Antimony	Not detected	mg/L	0.005	200.8	12/19/11 20:40	SLS	7440-36-0	
Arsenic	0.009	mg/L	0.002	200.8	12/19/11 20:40	SLS	7440-38-2	
Barium	0.307	mg/L	0.005	200.8	12/19/11 20:40	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	12/19/11 20:40	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	12/19/11 20:40	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	12/19/11 20:40	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	12/19/11 20:40	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	12/19/11 20:40	SLS	7440-50-8	
Lead	0.005	mg/L	0.003	200.8	12/19/11 20:40	SLS	7439-92-1	
Manganese	0.595	mg/L	0.005	200.8	12/19/11 20:40	SLS	7439-96-5	
Nickel	0.006	mg/L	0.005	200.8	12/19/11 20:40	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	12/19/11 20:40	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	12/19/11 20:40	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	12/19/11 20:40	SLS	7440-28-0	
Vanadium	Not detected	mg/L	0.004	200.8	12/19/11 20:40	SLS	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	12/19/11 20:40	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	12/16/11 16:20	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	12/16/11 16:20	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	12/16/11 16:20	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	12/16/11 16:20	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	12/16/11 16:20	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	12/16/11 16:20	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	12/16/11 16:20	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	12/16/11 16:20	WAT	74-87-3	
Vinyl chloride	1	ug/L	1	8260B	12/16/11 16:20	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	12/16/11 16:20	WAT	74-83-9	
Chloroethane	15	ug/L	5	8260B	12/16/11 16:20	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	75-35-4	

Lab Sample ID: S51026.12 (continued)
Sample Tag: Dup001_12132011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Methylene chloride	Not detected	ug/L	5	8260B	12/16/11 16:20	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	156-60-5	
1,1-Dichloroethane	10	ug/L	1	8260B	12/16/11 16:20	WAT	75-34-3	
cis-1,2-Dichloroethene	20	ug/L	1	8260B	12/16/11 16:20	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	12/16/11 16:20	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	74-97-5	
1,1,1-Trichloroethane	5	ug/L	1	8260B	12/16/11 16:20	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	12/16/11 16:20	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	12/16/11 16:20	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	107-06-2	
Trichloroethene	4	ug/L	1	8260B	12/16/11 16:20	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	12/16/11 16:20	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	12/16/11 16:20	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	12/16/11 16:20	WAT		
o-Xylene	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	12/16/11 16:20	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	12/16/11 16:20	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 16:20	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	12/16/11 16:20	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	12/16/11 16:20	WAT	96-12-8	

Lab Sample ID: S51026.12 (continued)
Sample Tag: Dup001_12132011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	12/16/11 16:20	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	12/16/11 16:20	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	12/16/11 16:20	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	12/16/11 16:20	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S51026.13
Sample Tag: Field_Blank_12132011
Collected Date/Time: 12/13/2011 13:00
Matrix: Liquid
COC Reference: BC121311.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	12/20/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	12/16/11 12:06	JDP	57-12-5	
Metals								
Antimony	Not detected	mg/L	0.005	200.8	12/19/11 20:17	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	12/19/11 20:17	SLS	7440-38-2	
Barium	Not detected	mg/L	0.005	200.8	12/19/11 20:17	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	12/19/11 20:17	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	12/19/11 20:17	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	12/19/11 20:17	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	12/19/11 20:17	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	12/19/11 20:17	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	12/19/11 20:17	SLS	7439-92-1	
Manganese	Not detected	mg/L	0.005	200.8	12/19/11 20:17	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	12/19/11 20:17	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	12/19/11 20:17	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	12/19/11 20:17	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	12/19/11 20:17	SLS	7440-28-0	
Vanadium	Not detected	mg/L	0.004	200.8	12/19/11 20:17	SLS	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	12/19/11 20:17	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	12/16/11 16:40	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	12/16/11 16:40	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	12/16/11 16:40	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	12/16/11 16:40	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	12/16/11 16:40	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	12/16/11 16:40	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	12/16/11 16:40	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	12/16/11 16:40	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	12/16/11 16:40	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	12/16/11 16:40	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	12/16/11 16:40	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	156-60-5	

Lab Sample ID: S51026.13 (continued)
Sample Tag: Field_Blank_12132011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethane	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	12/16/11 16:40	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	12/16/11 16:40	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	12/16/11 16:40	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	12/16/11 16:40	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	12/16/11 16:40	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	12/16/11 16:40	WAT		
o-Xylene	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	12/16/11 16:40	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	12/16/11 16:40	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 16:40	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	12/16/11 16:40	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	12/16/11 16:40	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	12/16/11 16:40	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	12/16/11 16:40	WAT	87-61-6	

Lab Sample ID: S51026.13 (continued)
Sample Tag: Field_Blank_12132011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Naphthalene	Not detected	ug/L	5	8260B	12/16/11 16:40	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	12/16/11 16:40	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S51026.14
Sample Tag: Equip_Blank_12132011
Collected Date/Time: 12/13/2011 13:15
Matrix: Liquid
COC Reference: BC121311.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.4	IR
1	125ml Plastic	HNO3	Yes	4.4	IR
1	125ml Plastic	NaOH	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	12/20/11 01:00	SLR		
Inorganics								
Cyanide	Not detected	mg/L	0.005	335.4/4500-CN-E	12/16/11 12:08	JDP	57-12-5	
Metals								
Antimony	Not detected	mg/L	0.005	200.8	12/19/11 20:21	SLS	7440-36-0	
Arsenic	Not detected	mg/L	0.002	200.8	12/19/11 20:21	SLS	7440-38-2	
Barium	Not detected	mg/L	0.005	200.8	12/19/11 20:21	SLS	7440-39-3	
Beryllium	Not detected	mg/L	0.001	200.8	12/19/11 20:21	SLS	7440-41-7	
Cadmium	Not detected	mg/L	0.0005	200.8	12/19/11 20:21	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	12/19/11 20:21	SLS	7440-47-3	
Cobalt	Not detected	mg/L	0.005	200.8	12/19/11 20:21	SLS	7440-48-4	
Copper	Not detected	mg/L	0.004	200.8	12/19/11 20:21	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	12/19/11 20:21	SLS	7439-92-1	
Manganese	Not detected	mg/L	0.005	200.8	12/19/11 20:21	SLS	7439-96-5	
Nickel	Not detected	mg/L	0.005	200.8	12/19/11 20:21	SLS	7440-02-0	
Selenium	Not detected	mg/L	0.005	200.8	12/19/11 20:21	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	12/19/11 20:21	SLS	7440-22-4	
Thallium	Not detected	mg/L	0.002	200.8	12/19/11 20:21	SLS	7440-28-0	
Vanadium	Not detected	mg/L	0.004	200.8	12/19/11 20:21	SLS	7440-62-2	
Zinc	Not detected	mg/L	0.005	200.8	12/19/11 20:21	SLS	7440-66-6	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	12/16/11 17:00	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	12/16/11 17:00	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	12/16/11 17:00	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	12/16/11 17:00	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	12/16/11 17:00	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	12/16/11 17:00	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	12/16/11 17:00	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	12/16/11 17:00	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	12/16/11 17:00	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	12/16/11 17:00	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	12/16/11 17:00	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	156-60-5	

Lab Sample ID: S51026.14 (continued)
Sample Tag: Equip_Blank_12132011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,1-Dichloroethane	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	12/16/11 17:00	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	12/16/11 17:00	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	12/16/11 17:00	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	12/16/11 17:00	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	12/16/11 17:00	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	12/16/11 17:00	WAT		
o-Xylene	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	12/16/11 17:00	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	12/16/11 17:00	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 17:00	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	12/16/11 17:00	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	12/16/11 17:00	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	12/16/11 17:00	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	12/16/11 17:00	WAT	87-61-6	

Lab Sample ID: S51026.14 (continued)
Sample Tag: Equip_Blank_12132011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Naphthalene	Not detected	ug/L	5	8260B	12/16/11 17:00	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	12/16/11 17:00	WAT	91-57-6	

Analytical Laboratory Report

Lab Sample ID: S51026.15
Sample Tag: Trip_Blank_12132011
Collected Date/Time: 12/13/2011 00:01
Matrix: Liquid
COC Reference: BC121311.2

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	12/16/11 17:20	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	12/16/11 17:20	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	12/16/11 17:20	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	12/16/11 17:20	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	12/16/11 17:20	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	12/16/11 17:20	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	12/16/11 17:20	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	12/16/11 17:20	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	12/16/11 17:20	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	12/16/11 17:20	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	12/16/11 17:20	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	12/16/11 17:20	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	12/16/11 17:20	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	12/16/11 17:20	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	12/16/11 17:20	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	12/16/11 17:20	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	100-41-4	

Lab Sample ID: S51026.15 (continued)
Sample Tag: Trip_Blank_12132011

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
p,m-Xylene	Not detected	ug/L	2	8260B	12/16/11 17:20	WAT		
o-Xylene	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	12/16/11 17:20	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	12/16/11 17:20	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	12/16/11 17:20	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	12/16/11 17:20	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	12/16/11 17:20	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	12/16/11 17:20	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	12/16/11 17:20	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	12/16/11 17:20	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	12/16/11 17:20	WAT	91-57-6	

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID: BC121311.2

Send Results To:

Contact & Company Name:	Telephone:
Mike Brennan, Micki Maki, Tony Maffeo	810.225.1900
Address:	**Fax:**
10559 Citation DR, Suite 100	810-229-8837
City State Zip	**E-mail Address:**
Brighton, MI 48116	see comments
Project Name/Location (City, State):	**Project #:**
Buick City/ Flint, MI	B0064410.2011.00801
Sampler's Printed Name:	**Sampler's Signature:**
D. Newcom, J. Kotwicki	

PARAMETER ANALYSIS & METHOD

Preservative	E	C	D	B				
Filtered (✓)								
# of Containers	1	1	1	2				
Container Information	10	4	3	1				

51026 Sample ID		Collection Date	Collection Time	Type Comp	Type Grab	Matrix		Total Suspended Solids	Cyanide	Metals (Ag, As, Ba, Be, Cd, Cr [total], Co, Cu, Mn, Ni, Pb, Sb, Tl, Se, V, and Zn)	VOCs					REMARKS
.01	MP001_12132011	12/13/2011	1025		x	w		x	x	x	x					
.02	MP002_12132011	12/13/2011	1100		x	w		x	x	x	x					
.03	MP003_12132011	12/13/2011	1140		x	w		x	x	x	x					
.04	MP005_12132011	12/13/2011	1155		x	w		x	x	x						
.05	MP006_12132011	12/13/2011	1240		x	w		x	x	x	x					
.06	MP007_12132011	12/13/2011	1220		x	w		x	x	x	x					
.07	MP009_12132011	12/13/2011	1115		x	w		x	x	x	x					
.08/.09/.10	MP010_12132011	12/13/2011	1255		x	w		x	x	x	x					MS/MSD
.11	MP013_12132011	12/13/2011	0930		x	w		x	x	x						
.12	Dup001_12132011	12/13/2011	na		x	w		x	x	x	x					
.13	Field_Blank_12132011	12/13/2011	1300		x	w			x	x	x					
.14	Equip_Blank_12132011	12/13/2011	1315		x	w			x	x	x					
.15	Trip_Blank_12132011	na	na		x	w					x					Lab Filled

KEYS

Preservation Key:
A. H_2SO_4
B. HCL
C. NaOH
D. HNO_3
E. None
F.
G.
H.

Container Information Key:
1. 40 mL VOA
2. 1 L Amber
3. 125 mL Plastic
4. 250 mL Plastic
5. 500 mL Plastic
6. 1 L Plastic
7. 2 oz. Glass
8. 4 oz. Glass
9. 8 oz. Glass
10. Other

Matrix Key:
SE = Sediment, A = Air, SL = Sludge
SO = Soil, NL = NAPL / Oil, SW = Surface

Special Instructions/Comments: Invoice to: Ms. Monica Wallingford, Racer Trust, 2930 Ecorse Road, Ypsilanti, MI 48198, (313) 486.2928, P.O.No: MT1295a - Please also send copy of Invoicing to Micki Maki (ARCADIS).
Emails: michael.brennan@aradis-us.com; micki.maki@arcadis-us.com; tony.maffeo@arcadis-us.com

Special QA/QC Instructions (✓): Level II and EDD

Laboratory Information and Receipt		Relinquished By	Received By	Laboratory Received By
Lab Name: Merit	Cooler Custody Seal	Printed Name: D.Newcom	Printed Name: Chris Southice	Printed Name: Paula Shaw
☑ Cooler packed with ice (✓)	☐ Intact ☐ Not Intact	Signature:	Signature:	Signature:
Specify Turnaround Requirements: Std TAT	Sample Receipt:	Firm: ARCADIS	Firm: Merit	Firm: Merit
Fed-Ex Tracking #:	Condition/Cooler Temp: 4.4	Date/Time: 12/13/11 1340	Date/Time: 12-13-11 1340	Date/Time: 12-13-11 1430

Analytical Laboratory Report

Report ID: S51038.01(01)
Generated on 12/20/2011

Report to

Attention: Beth Nanzer/ Mike Brennan
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-225-1937 FAX: 810-229-8837
Email: bethany.nanzer@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S51038.01-S51038.02
Project: B0064410.2011.00801 / Buick City / Flint MI
Collected Date: 12/13/2011
Submitted Date/Time: 12/14/2011 14:15
Sampled by: D.Newcom
P.O. #: MLT1295

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (2 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S51038.01	MP003A_12132011	Liquid	12/13/2011 14:30
S51038.02	ISCO_Blank_12132011	Liquid	12/13/2011 15:00

Analytical Laboratory Report

Lab Sample ID: S51038.01
Sample Tag: MP003A_12132011
Collected Date/Time: 12/13/2011 14:30
Matrix: Liquid
COC Reference: BC121311.3

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	12/19/11 14:30	CCM		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	12/19/11 15:33	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	12/19/11 15:33	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	12/19/11 15:33	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	12/19/11 15:33	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	12/19/11 15:33	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	12/19/11 15:33	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	12/19/11 15:33	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	12/19/11 15:33	JANB	1336-36-3	

Analytical Laboratory Report

Lab Sample ID: S51038.02
Sample Tag: ISCO_Blank_12132011
Collected Date/Time: 12/13/2011 15:00
Matrix: Liquid
COC Reference: BC121311.3

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	12/19/11 14:30	CCM		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	12/19/11 15:44	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	12/19/11 15:44	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	12/19/11 15:44	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	12/19/11 15:44	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	12/19/11 15:44	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	12/19/11 15:44	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	12/19/11 15:44	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	12/19/11 15:44	JANB	1336-36-3	

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID: BC121311.3

Send Results To:	
Contact & Company Name: Mike Brennan, Beth Nanzer	Telephone: 810-229-1937
Address: 10559 Citation DR	Fax: 810-229-8837
City State Zip: Brighton, MI 48116	E-mail Address: see comments
Project Name/Location (City, State): Buick City/ Flint, MI	Project #: B0064410.2011.00801
Sampler's Printed Name: D. Newcom	Sampler's Signature:

Sample ID	Collection Date	Collection Time	Type Comp	Type Grab	Matrix	Total PCB's									REMARKS
Preservative						E									
Filtered (✓)															
# of Containers						2									
Container Information						2									
51038 .01 MP003A_12132011	12/13/11	1430	x		w	x									
.02 ISCO_Blank_ 12132011	12/13/11	1500		x	w	x									

PARAMETER ANALYSIS & METHOD

KEYS

Preservation Key:
A. H_2SO_4
B. HCL
C. NaOH
D. HNO_3
E. None
F.
G.
H.

Container Information Key:
1. 40 mL VOA
2. 1 L Amber
3. 125 mL Plastic
4. 250 mL Plastic
5. 500 mL Plastic
6. 1 L Plastic
7. 2 oz. Glass
8. 4 oz. Glass
9. 8 oz. Glass
10. Other

Matrix Key:
SE = Sediment, A = Air, SL = Sludge
SO = Soil, NL = NAPL / Oil, SW = Surface

Special Instructions/Comments: Invoice to: Ms. Monica Wallingford, Racer Trust, 2930 Ecorse Road, Ypsilanti, MI 48198, (313) 486.2928, P.O.No: MLT1295a - Please also send copy of Invoicing to Micki Maki (ARCADIS).
Report to: Mike Brennan (michael.brennan@arcadis-us.com); Beth Nanzer (bethany.nanzer@arcaadis-us.com)

Special QA/QC Instructions: EDD Requested, Level II, Std TAT

Laboratory Information and Receipt		Relinquished By	Received By	Laboratory Received By
Lab Name: Merit	Cooler Custody Seal	Printed Name: D. Newcom	Printed Name: Chris Gauthier	Printed Name: Paula Shaw
☑ Cooler packed with ice (✓)	☐ Intact ☐ Not Intact	Signature:	Signature:	Signature:
Specify Turnaround Requirements: Std TAT	Sample Receipt:	Firm: ARCADIS	Firm: Merit	Firm: Merit
Fed-Ex Tracking #:	Condition/Cooler Temp: 4.6	Date/Time: 12/14/11 930	Date/Time: 12-14-11 930	Date/Time: 12-14-11 1415

Analytical Laboratory Report

Report ID: S51140.01(01)
Generated on 12/23/2011

Report to

Attention: Mike Brennan
Arcadis
10559 Citation Drive
Suite 100
Brighton, MI 48116

Phone: 810-225-1937 FAX: 810-229-8837
Email: bethany.nanzer@arcadis-us.com

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S51140.01-S51140.02
Project: B0064410.2011.00801 / Buick City / Flint MI
Collected Date: 12/21/2011
Submitted Date/Time: 12/21/2011 15:15
Sampled by: D.Newcom
P.O. #: MLT1295

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:
Michigan DNRE (#9956), Ohio EPA (#CL0002), NELAC NY (#11814), NELAC FL (#E871045), WBENC (#2005110032)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (2 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S51140.01	MP005-C_12212011	Water	12/21/2011 09:00
S51140.02	ISCO_Blannk_12212011	Water	12/21/2011 09:30

Analytical Laboratory Report

Lab Sample ID: S51140.01
Sample Tag: MP005-C_12212011
Collected Date/Time: 12/21/2011 09:00
Matrix: Water
COC Reference: BC122111.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	12/22/11 15:03	CCM		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	12/22/11 16:42	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	12/22/11 16:42	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	12/22/11 16:42	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	12/22/11 16:42	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	12/22/11 16:42	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	12/22/11 16:42	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	12/22/11 16:42	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	12/22/11 16:42	JANB	1336-36-3	

Analytical Laboratory Report

Lab Sample ID: S51140.02
Sample Tag: ISCO_Blannk_12212011
Collected Date/Time: 12/21/2011 09:30
Matrix: Water
COC Reference: BC122111.1

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			3510C	12/22/11 15:03	CCM		
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.1	608	12/22/11 16:52	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	12/22/11 16:52	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	12/22/11 16:52	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	12/22/11 16:52	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	12/22/11 16:52	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	12/22/11 16:52	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	12/22/11 16:52	JANB	11096-82-5	
PCB, Total	Not detected	ug/L	0.1	608	12/22/11 16:52	JANB	1336-36-3	

ARCADIS

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

eCOC ID: BC122111.1

Send Results To:

Contact & Company Name: Mike Brennan	Telephone: 810-229-1937
Address: 10559 Citation DR	Fax: 810-229-8837
City State Zip: Brighton, MI 48116	E-mail Address: michael.brennan@arcadis-us.com
Project Name/Location (City, State): Buick City/ Flint, MI	Project #: B0064410.2011.00801
Sampler's Printed Name: D. Newcom	Sampler's Signature:

Preservative	E							
Filtered (Y)								
# of Containers	2							
Container Information	2							

PARAMETER ANALYSIS & METHOD

Sample ID	Collection Date	Collection Time	Type Comp	Type Grab	Matrix	Total PCB's							
5140 MP005-C_12212011 .01	12/21/11	0900	x		w	x							
.02 ISCO_Blank_12212011	12/21/11	0930		x	w	x							

KEYS

Preservation Key:
A. H_2SO_4
B. HCL
C. NaOH
D. HNO_3
E. None
F.
G.
H.

Container Information Key:
1. 40 ml VOA
2. 1 L Amber
3. 125 ml Plastic
4. 250 ml Plastic
5. 500 ml Plastic
6. 1 L Plastic
7. 2 oz Glass
8. 4 oz Glass
9. 8 oz Glass
10. Other

Matrix Key:
SE = Sediment, A = Air, SL = Sludge
SO = Soil, NL = NAPL / Oil, SW = Surface

REMARKS

Special Instructions/Comments: Invoice to: Ms. Monica Wallingford, Racer Trust, 2930 Ecorse Road, Ypsilanti, MI 48198, (313) 486.2928, P.O.No: MLT1295a - Please also send copy of invoicing to Micki Maki (ARCADIS).

Special QA/QC Instructions: EDD Requested, Level II, Std TAT

Laboratory Information and Receipt		Relinquished By	Received By	Laboratory Received By
Lab Name: Merit	Cooler Custody Seal: ☐ Intact ☐ Not Intact	Printed Name: D. Newcom	Printed Name: Chris Gauthier	Printed Name: Andrew Ball
☑ Cooler packed with ice (✓)		Signature:	Signature:	Signature: Andrew Ball
Specify Turnaround Requirements: Std TAT	Sample Receipt:	Firm: ARCADIS	Firm: Merit	Firm: MERIT
Fed-Ex Tracking #:	Condition/Cooler Temp: 4/6°C	Date/Time: 12/21/11 1220	Date/Time: 12-21-11 1220	Date/Time: 21DEC11 1515

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Appendix C

MAINTENANCE OF SELECT SURFACE COVERS
INSPECTION LOG SHEET

NAO FLINT NORTH (OTHERWISE KNOWN AS BUICK CITY) – SOUTHEND
FLINT, MICHIGAN

DATE: 3/31/11 TIME: 1200 – 1630

Quarterly Inspection		
Is the Surface Cover Consistent with Existing Conditions?		
Item	**Condition Satisfactory (X)**	**Condition Unsatisfactory (X)**
AOI Group 12-A	☒	☐
AOI Group 2-C	☒	☐
AOI Group 29-A	☒	☐
AOI Group 09-A	☒	☐
AOI Group 09-B (Area 1)	☒	☐
AOI Group 09-B (Area 2)	☒	☐

Comments*

All areas appear in same condition as previous inspection. Some areas still snow covered and can't be seen.

Print Name (Inspector): Corri Zilio

Inspector's Signature: Corri Zilio

*** Comments and photos attached**

MAINTENANCE OF SELECT SURFACE COVERS
INSPECTION LOG SHEET

NAO FLINT NORTH (OTHERWISE KNOWN AS BUICK CITY) – SOUTHEND
FLINT, MICHIGAN

Item	Groundcover	Condition	Photo Notes
AOI Group 12-A	-Concrete - Random Dead Vegetation - Broken Concrete	Fair No Changes	1. Corner 1 2. 2 3. 3 4. 4
AOI Group 2-C	- Concrete - Dead Vegetation - Broken Concrete/Asphalt	Fair No changes	1. Corner 1 2. 2 3. 3 4. 4
AOI Group 29-A	-Concrete -Random Dead Vegetation -Broken Concrete	Fair No Changes	1. Corner 1 2. 2 3. 3 4. 4
AOI Group 09-A	- Concrete - Dead Vegetation - Broken Concrete	Fair No Changes	1. Corner 1 2. 2 3. 3 4. 4 5. 5
AOI Group 09-B (Area 1)	- Concrete - Random Dead Vegetation	Fair No Changes	1. - No Corners (From Fence) 2. - Only 4 photos 3. 4. 5.

MAINTENANCE OF SELECT SURFACE COVERS
INSPECTION LOG SHEET

NAO FLINT NORTH (OTHERWISE KNOWN AS BUICK CITY) – SOUTHEND
FLINT, MICHIGAN

Item	Groundcover	Condition	Photo Notes
AOI Group 09-B (Area 2)	- Dead Vegetation - Concrete - Asphalt	Fair No Changes	1. Only 2 photos 2. taken; Area secured 3. by fenceline; Did 4. not walk on other 5. side by abandoned 6. buildings due to 7. H+S concerns

MAINTENANCE OF SELECT SURFACE COVERS
PHOTOGRAPH LOG

NAO FLINT NORTH - SOUTHEND
FLINT, MICHIGAN
3/31/2011

AOI Group 12-A

Facing Northeast, Corner B-3

Facing Southeast, Corner B-4

Facing Southwest, Corner B-1

Facing Northwest, Corner B-2

MAINTENANCE OF SELECT SURFACE COVERS
PHOTOGRAPH LOG

NAO FLINT NORTH - SOUTHEND
FLINT, MICHIGAN
3/31/2011

AOI Group 2-C

Facing Northeast, Corner C-3

Facing Southwest, Corner C-1

Facing Northwest, Corner C-2

Facing Southeast, Corner C-4

MAINTENANCE OF SELECT SURFACE COVERS
PHOTOGRAPH LOG

NAO FLINT NORTH - SOUTHEND
FLINT, MICHIGAN
3/31/2011

AOI Group 29-A

Facing Northeast, Corner A-3

Facing Southeast, Corner A-4

Facing Southwest, Corner A-1

Facing Northwest, Corner A-2

MAINTENANCE OF SELECT SURFACE COVERS
PHOTOGRAPH LOG

NAO FLINT NORTH - SOUTHEND
FLINT, MICHIGAN
3/31/2011

AOI Group 09-A

Facing East, Corner G-5

Facing Northwest, Corner G-3

Facing Northeast Corner, G-4

Facing Southeast, Corner G-2

MAINTENANCE OF SELECT SURFACE COVERS
PHOTOGRAPH LOG

NAO FLINT NORTH - SOUTHEND
FLINT, MICHIGAN
3/31/2011

AOI Group 09-A (Continued)

Facing Southwest, Corner G-1

MAINTENANCE OF SELECT SURFACE COVERS
PHOTOGRAPH LOG

NAO FLINT NORTH - SOUTHEND
FLINT, MICHIGAN
3/31/2011

AOI Group 09B-Area 1

Facing Northeast, Formerly Corner F-1/2

Facing Northwest, Formerly Corner F-3

Facing Southwest, Formerly Corner E-4

Facing Northwest

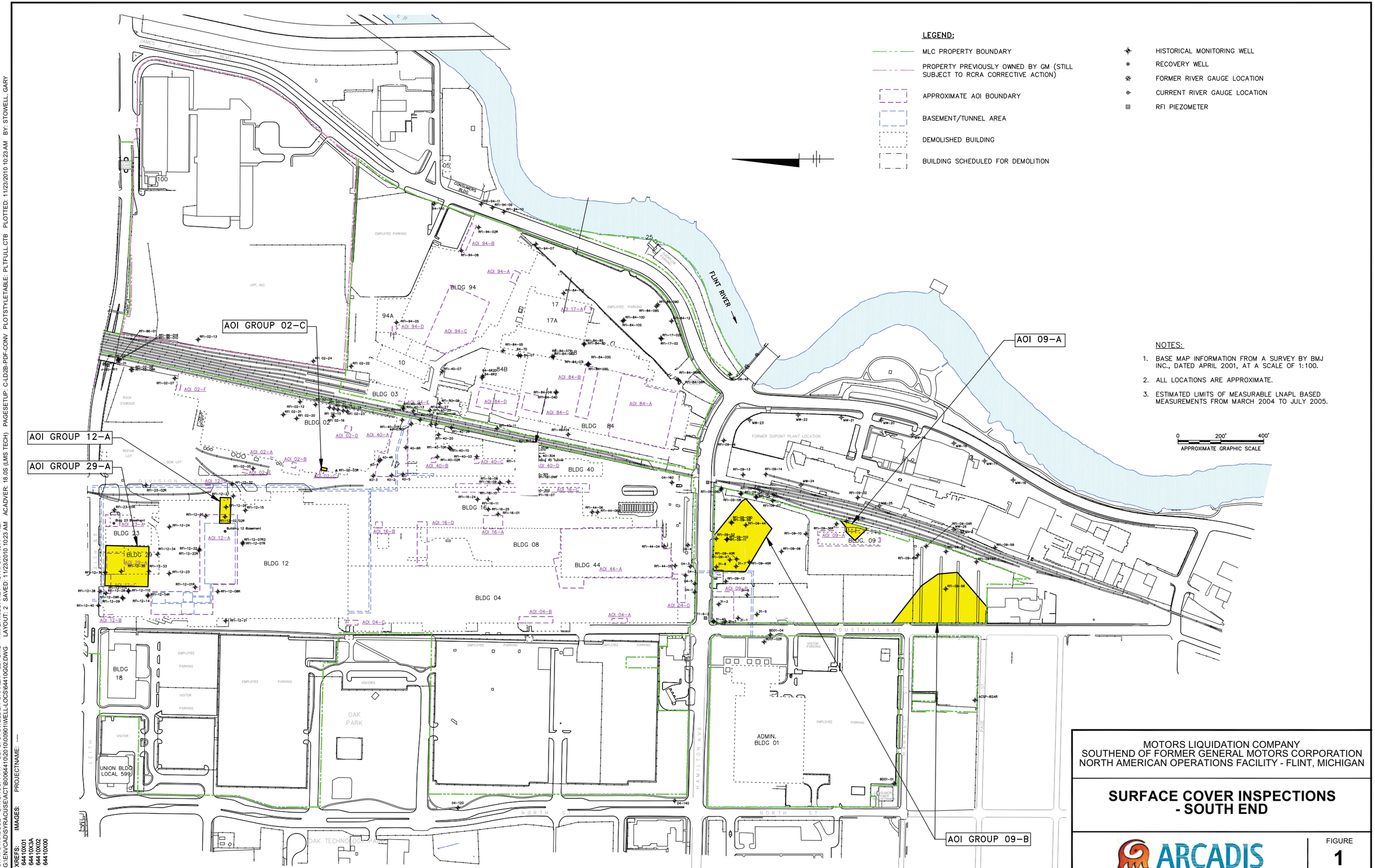
MAINTENANCE OF SELECT SURFACE COVERS
PHOTOGRAPH LOG

NAO FLINT NORTH - SOUTHEND
FLINT, MICHIGAN
3/31/2011

AOI Group 09-B Area 2

Facing Northeast, Corner I-5

Facing Southeast



MOTORS LIQUIDATION COMPANY
SOUTHEND OF FORMER GENERAL MOTORS CORPORATION
NORTH AMERICAN OPERATIONS FACILITY - FLINT, MICHIGAN

SURFACE COVER INSPECTIONS - SOUTH END

ARCADIS

FIGURE 1

CITY: SYRACUSE DIV/GROUP: 141 DB: G. STOWELL L. FORAKER LD: GMS PM: L. McBURNEY LYR: ON=*;OFF=*REF* LAYOUT: 2 SAVED: 11/23/2010 10:23 AM ACADVER: 18.0S (LMS TECH) PAGESETUP: C-LD2B-PDF-CONV PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 11/23/2010 10:23 AM BY: STOWELL, GARY
G:\ENVCAD\SYRACUSE\ACT\B0064410\2010\00901\WELL-LOCS\64410G02.DWG
XREFS: 64410X01 64410X3A 64410X02 64410X00 IMAGES: PROJECTNAME: ----

MAINTENANCE OF SELECT SURFACE COVERS
INSPECTION LOG SHEET

NAO FLINT NORTH (OTHERWISE KNOWN AS BUICK CITY) – SOUTHEND
FLINT, MICHIGAN

DATE: 6/16/2011 TIME: Varies

Quarterly Inspection		
Is the Surface Cover Consistent with Existing Conditions?		
Item	**Condition Satisfactory (X)**	**Condition Unsatisfactory (X)**
AOI Group 12-A	☒	☐
AOI Group 2-C	☒	☐
AOI Group 29-A	☒	☐
AOI Group 09-A	☒	☐
AOI Group 09-B (Area 1)	☒	☐
AOI Group 09-B (Area 2)	☒	☐

Comments*
Areas appear to be in same condition as previous inspections. No visible changes to surfaces including any new damage. Many survey markers (survey tape, stakes, and spray paint) indicating the AOI areas are now gone. Photos taken from the best locations outside AOI areas in order to include all of the surfaces (see notes and captions with photos). Will attempt to replace some markers before next inspection.

Name (Inspector): D.Newcom

Inspector's Signature: _____

*** Comments and photos attached**

MAINTENANCE OF SELECT SURFACE COVERS
INSPECTION LOG SHEET

NAO FLINT NORTH (OTHERWISE KNOWN AS BUICK CITY) – SOUTHEND
FLINT, MICHIGAN

Item	Groundcover	Condition	Photo Notes
AOI Group 12-A	• Broken and intact concrete • New vegetation growth for spring	Fair, No changes	**See notes and captions with photos for all locations**
AOI Group 2-C	• Mix of broken concrete and asphalt • Intact concrete • New vegetation growth	Fair, No changes	1. 2. 3. 4.
AOI Group 29-A	• Broken and intact concrete • New vegetation growth for spring	Fair, No changes	1. 2. 3. 4.
AOI Group 09-A	• Broken and intact concrete • New vegetation growth for spring	Fair, No changes	1. 2. 3. 4. 5.
AOI Group 09-B (Area 1)	• Intact concrete • New vegetation growth for spring	Fair, No changes	1. 2. 3. 4. 5.

NAO FLINT NORTH (OTHERWISE KNOWN AS BUICK CITY) – SOUTHEND
FLINT, MICHIGAN

Item	Groundcover	Condition	Photo Notes
AOI Group 09-B (Area 2)	• Intact concrete and asphalt • Deteriorating concrete and asphalt • New vegetation growth for spring	Fair, No changes	1. 2. 3. 4. 5. 6.

AOI 29-A

Facing Northeast

Facing Southeast

Facing Southwest

AOI 12A

Facing East

Facing Southwest

Facing Northwest

AOI 2C

Facing North

Facing South

AOI 09-A

Facing Northeast

Facing Southwest

Facing East

Facing Northwest

AOI 09B-1

Facing South (includes east and west side)

Facing North (includes east and west sides)

AOI 09B-2

Facing South (taken through perimeter fence on north side)

Facing Southeast (taken through perimeter fence north side)

Facing East (from outside fence, H&S concerns)

This location is separated from the larger area which includes AOI 9A and 9B-1 by a perimeter fence. There is only one route of entry and exit for this area and it must be walked. The access opening which previously held a guard shed is not drivable due to vandalism. There are numerous access holes made in the property fence and generally shows signs of activity. Due to H&S concerns, photos and inspection completed from outside fence. Area is mainly comprised of vegetation and concrete/gravel paths.

MAINTENANCE OF SELECT SURFACE COVERS
INSPECTION LOG SHEET

NAO FLINT NORTH (OTHERWISE KNOWN AS BUICK CITY) – SOUTHEND
FLINT, MICHIGAN

DATE: 9/1/11 TIME: Varies throughout day

Quarterly Inspection		
Is the Surface Cover Consistent with Existing Conditions?		
Item	**Condition Satisfactory (X)**	**Condition Unsatisfactory (X)**
AOI Group 12-A	☒	☐
AOI Group 2-C	☒	☐
AOI Group 29-A	☒	☐
AOI Group 09-A	☒	☐
AOI Group 09-B (Area 1)	☒	☐
AOI Group 09-B (Area 2)	☒	☐

Comments*
Areas appear to be in same condition as previous inspections. No visible changes to surfaces including any new damage. Many survey markers (survey tape, stakes, and spray paint) indicating the AOI areas are now gone. Photos taken from the approximate locations at AOI areas in order to include all of the surfaces (see notes and captions with photos).

Name (Inspector): D.Newcom

Inspector's Signature: _____

*** Comments and photos attached**

MAINTENANCE OF SELECT SURFACE COVERS
INSPECTION LOG SHEET

NAO FLINT NORTH (OTHERWISE KNOWN AS BUICK CITY) – SOUTHEND
FLINT, MICHIGAN

Item	Groundcover	Condition	Photo Notes
AOI Group 12-A	• Broken and intact concrete • Drying and green vegetation due to season	Fair, No changes	**See notes and captions with photos for all locations**
AOI Group 2-C	• Mix of broken concrete and asphalt • Intact concrete • Drying and green vegetation due to season	Fair, No changes	1. 2. 3. 4.
AOI Group 29-A	• Broken and intact concrete • Drying and green vegetation due to season	Fair, No changes	1. 2. 3. 4.
AOI Group 09-A	• Broken and intact concrete • Drying and green vegetation due to season	Fair, No changes	1. 2. 3. 4. 5.
AOI Group 09-B (Area 1)	• Intact concrete • Drying and green vegetation due to season	Fair, No changes	1. 2. 3. 4. 5.

MAINTENANCE OF SELECT SURFACE COVERS
INSPECTION LOG SHEET

NAO FLINT NORTH (OTHERWISE KNOWN AS BUICK CITY) – SOUTHEND
FLINT, MICHIGAN

Item	Groundcover	Condition	Photo Notes
AOI Group 09-B (Area 2)	• Intact concrete and asphalt • Deteriorating concrete and asphalt • Drying and green vegetation due to season	Fair, No changes	1. 2. 3. 4. 5. 6.

Select Surface Inspection
AOI 2C
9/1/11

Corner C-4 facing center

Corner C-1 facing center

Corner C-2 facing center

Corner C-3 facing center

Select Surface Inspection
AOI 12-A
9/1/11

Corner B-2 facing center

Corner B-1 facing center

Corner B-3 facing center

Corner B-4 facing center

Select Surface Inspection
AOI 9A
9/1/11

Corner G-1 facing center

Corner G-2 facing center

Corner G-3 facing center

Corner G-4 facing center

Select Surface Inspection
AOI 9A (continued)
9/1/11

Corner G-5 facing center

Select Surface Inspection
AOI 29A
9/1/11

Corner A-4 facing center

Corner A-1 facing center

Corner A-2 facing center

Corner A-3 facing center

Select Surface Inspection
AOI 09B (Area 1)
9/1/11

Corner E-4 facing center

Corner E-1 facing center

Corner F-2 facing center

Corner F-3 facing center

Select Surface Inspection
AOI 09B (Area 1) (continued)
9/1/11

Corner E-3 facing center

Select Surface Inspection
AOI 09B (Area 2)
9/1/11

Corner I-6 facing center

Corner I-1 facing center

Corner I-2 facing center

Corner I-3 facing center

Select Surface Inspection
AOI 09B (Area 2) (continued)
9/1/11

Corner I-4 facing center

Corner I-5 facing center

MAINTENANCE OF SELECT SURFACE COVERS
INSPECTION LOG SHEET

NAO FLINT NORTH (OTHERWISE KNOWN AS BUICK CITY) – SOUTHEND
FLINT, MICHIGAN

DATE: 12/28/11 TIME: Throughout day

Quarterly Inspection		
Is the Surface Cover Consistent with Existing Conditions?		
Item	**Condition Satisfactory (X)**	**Condition Unsatisfactory (X)**
AOI Group 12-A	☒	☐
AOI Group 2-C	☒	☐
AOI Group 29-A	☒	☐
AOI Group 09-A	☒	☐
AOI Group 09-B (Area 1)	☒	☐
AOI Group 09-B (Area 2)	☒	☐

Comments*
Areas appear to be in similar condition as previous inspection. No visible changes to surfaces including damage. Change in seasons, increased large vegetation growth and some dumping also noted. Many survey makers indicating boundaries are now gone. Photos taken from approximate areas in order to include all of the surfaces.

Print Name (Inspector): D.Newcom

Inspector's Signature: _____

*** Comments and photos attached**

MAINTENANCE OF SELECT SURFACE COVERS
INSPECTION LOG SHEET

NAO FLINT NORTH (OTHERWISE KNOWN AS BUICK CITY) – SOUTHEND
FLINT, MICHIGAN

Item	Groundcover	Condition	Photo Notes
AOI Group 12-A	• Some snow and ice cover • Dead vegetation • Broken and intact concrete	Fair, no changes noted	**See attached photos with notes for all locations**
AOI Group 2-C	• Some snow and ice cover • Intact concrete • Mix of broken concrete and asphalt • Dead vegetation	Fair, no changes noted	1. 2. 3. 4.
AOI Group 29-A	• Some snow and ice cover • Broken and intact concrete • Dead vegetation	Fair, no changes noted	1. 2. 3. 4.
AOI Group 09-A	• Some snow and ice cover • Broken and intact concrete • Dead vegetation	Fair, no changes noted	1. 2. 3. 4. 5.
AOI Group 09-B (Area 1)	• Some snow and ice cover • Intact concrete • Dead vegetation	Fair, no changes noted	1. 2. 3. 4. 5.

MAINTENANCE OF SELECT SURFACE COVERS
INSPECTION LOG SHEET

NAO FLINT NORTH (OTHERWISE KNOWN AS BUICK CITY) – SOUTHEND
FLINT, MICHIGAN

Item	Groundcover	Condition	Photo Notes
AOI Group 09-B (Area 2)	• Some snow and ice cover • Intact concrete and asphalt • Deteriorating concrete and asphalt • Dead vegetation	Fair, no changes noted	1. 2. 3. 4. 5. 6.

Select Surface Inspection
AOI – 29A
12/28/2011

Corner A-4 facing the center

Corner A-1 facing the center

Corner A-3 facing the center

Corner A-2 facing the center

Select Surface Inspection
AOI – 12A
12/28/2011

Corner B-1 facing the center

Corner B-4 facing the center

Corner B-2 facing the center

Corner B-3 facing the center

Select Surface Inspection
AOI – 09 B2 (1 of 2)
12/28/2011

Corner I-5 facing the center

Corner I-6 facing the center

Corner I-2 facing the center

Corner I-3 facing the center

Select Surface Inspection
AOI – 09 B2 (2 of 2)
12/28/2011

Corner I-4 facing the center

No photo taken for corner I-1 due to close proximity to I-2, area was included in other photos.

Select Surface Inspection
AOI – 02C
12/28/2011

Corner C-4 facing the center

Corner C-2 facing the center

Area is very small, only two photos were needed to cover entire AOI area.

Select Surface Inspection
AOI – 09 A
12/28/2011

Corner G-1 facing the center

Corner G-4 facing the center

Corner G-5 facing the center

All 5 corners are included in the photos. Area is odd shaped and small allowing for entire area to be included in 3 photos.

Select Surface Inspection
AOI – 09 B1 (1 of 2)
12/28/2011

Corner F-2 facing the center

Corner F-3 facing the center

Corner E-3 facing the center

Corner E-4 facing the center

Select Surface Inspection
AOI – 09 B1 (2 of 2)
12/28/2011

Corner E-1 facing the center