REPORT

REMEDIAL INVESTIGATION / ALTERNATIVES ANALYSIS / INTERIM REMEDIAL MEASURES REPORT

Niagara Transformer Corporation – 1755 Dale Road
Cheektowaga, New York
BCP Site No. C915234

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August 2010 **Project No. 093-89144-02**

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1.0 INTRODUCTION

This Remedial Investigation / Alternatives Analysis / Interim Remedial Measures (RI/AA/IRM) Report has been prepared on behalf of Niagara Transformer Corporation (NTC) for the 1755 Dale Road Site in the Town of Cheektowaga.

NTC executed a Brownfield Cleanup Agreement (BCA) in November 2009 (Site No. C915234) for redevelopment of the Site under the New York State Brownfield Cleanup Program (BCP). The RI / IRM Work Plan was approved by the NYSDEC in January, 2010. The Site consists of a vacant parcel of approximately 3 acres located adjacent to and due east of NTC's main manufacturing complex at 1747 Dale Road (refer to Figure 1-1). Golder performed RI activities in accordance with the Work Plan at the Site in September and October of 2009 with supplemental sampling conducted in January 2010 at the request of the Department. NTC implemented the IRM with oversight from Golder from February 12 through April 21, 2010. NTC is proposing to construct a manufacturing building on a portion of the vacant parcel that can be integrated into their existing manufacturing operations at 1747 Dale Road.

1.1 Purpose and Scope

This RI/AA/IRM Report has been prepared on behalf of NTC to describe and present the findings of the 2009-2010 RI and subsequent IRM activities and evaluates the IRM as the final remedial alternative for the Site.

The Report is structured as follows:

- Section 2 summarizes the soil and groundwater investigation approach;
- Section 3 describes the physical characteristics of the Site as they relate to the investigation findings;
- Section 4 presents the investigation results by media;
- Section 5 summarizes the IRM activities;
- Section 6 describes the fate and transport of the constituents of primary concern (COPCs);
- Section 7 presents the qualitative risk assessment;
- Section 8 presents and evaluation of remedial alternatives for the Site;
- Section 9 presents the RI/AA/IRM summary and conclusions; and
- Section 10 contains a list of references for this report.

1.2 Background

1.2.1 Site Description

The property is approximately 3 acres in size and located at 1755 Dale Road in the Town of Cheektowaga, New York (Erie County S.B.L No. 102.3-3-6.1). The site is located due south of the intersection of Anderson and Dale Roads.

The parcel was purchased by NTC in 1983 and has remained vacant since that time. To the knowledge and understanding of NTC, the parcel was vacant and unused as far back as the late 1950s and prior to that contained several rail sidings and may have served as a contractor's storage yard or scrap yard.

The southern half of the Site is mostly wooded with dense undergrowth (shrubs and woody vegetation) while the northern half is mostly open grass land. The Site is directly bordered by Dale Road to the north, NTC's manufacturing complex to the west (1747 Dale Rd.), CSX Railroad to the south, and an undeveloped 1.5 acre parcel of land to the east also owned by NTC.

1.2.2 Summary of Previous Investigations

A detailed description and summary of the previous investigations conducted at the Site is presented in Section 1.3 of the Remedial Investigation and Interim Remedial Measures Work Plan prepared by Golder Associates, Inc. in August 2009 (Ref. 1). In summary, A Phase I Environmental Site Assessment (ESA) was completed and three previous limited surface and subsurface soil investigations were conducted on the Site related to both the potential Site cleanup itself and remedial activities performed in conjunction with the adjacent parcel, 1747 Dale Road, under a NYSDEC State superfund cleanup. The three previous investigations were limited to characterization of PCBs in the soil/fill and groundwater based on the known impacts of this contaminant on the adjacent parcel.

1.2.2.1 Phase I ESA

A Phase I ESA was completed by Golder Associates Inc. in August 2009 (Ref. 2) in conjunction with preparation of the BCP Application. The Phase I ESA identified Recognized Environmental Conditions (RECs) and de minimis conditions found during the conduct of the ESA are listed below:

- The known presence of PCB contaminated surficial and subsurface soils on the Site.
- The potential for hazardous materials to be released from approximately eight 55-gallon drums located on the Site. The contents of the drums are unknown and it was not determined that the contents of any of the drums have been released. The assessment was based on the physical condition of the drums and the determination that liquid was present in 2 or 3 of the drums.

The following de minimis conditions in connection with the Site were identified in the Phase I ESA:

- A light oily sheen was observed in the standing water observed adjacent to and surrounding the decommissioned oil tank (from former 1747 Dale Rd, tank farm). NTC stated that the NYSDEC contractor had cleaned the tank several times prior to relocation on the Site and it did not contain mineral oil with PCBs prior to being taken out of service.

1.2.2.2 Soil Investigations – PCB Assessments

1996/1997 Remediation Staging Area IRM

As previously noted, in conjunction with the 1747 Dale Road NTC Manufacturing Site remediation conducted in 1996 and 1997, the remediation contractor was granted permission to use portions of the Site for staging and storage of equipment and placement of field/office trailers.

Section 2.5.9 of the December 1997 "Remediation Summary Report" prepared by Ecology and Environment (Ref. 3) describes the finding of PCBs in Site soils prior to mobilization of the remedial contractor. The report indicates that "the majority of PCB contamination was found on the west side of the staging area and on the slope immediately adjacent to the NTC driveway". Based on this data the NYSDEC directed the remedial contractor to place geotextile and stone down prior to occupying the Site. At the conclusion of the 1747 Dale Road remediation project, the remedial contractor was required to perform an IRM for the "staging area" on the Site to remove PCB-impacted stone and soils. Specifically, it was documented that 1,330.6 tons of hazardous waste were removed from the staging area from depths ranging between 6 to 18 inches below grade in grids located on the western slope and within the staging area. It was noted that verification sampling conducted after the soil excavation/removal confirmed the presence of PCBs in at concentrations less than 10 parts per million (ppm) in surface and shallow subsurface soils on the Site. It was stated that removal of these remaining impacted soils was not practicable based on the industrial site setting, access issues and economic considerations.

2004 Staging Area IRM

In 2004, a supplemental IRM was conducted on the 1747 Dale Road Manufacturing Site to mitigate on-site and off-site storm water system recontamination issues. As part of this IRM, the remediation contractor was allowed to perform equipment wash down and staging on a portion of the Site (estimated to be approximately a quarter acre) located east of the NTC south parking area and near the western boundary of the Site. Pre-mobilization sampling of the proposed staging area was performed by Ecology and Environment (E & E) on behalf of the NYSDEC and indicated elevated PCB concentrations at some of the sampling locations (in particular SP-6, SP-7 and SP-8). Immediately following sampling, the upper six inches of the soil in the staging area was stockpiled and a decontamination pad and stockpile liner were installed prior to receipt of the elevated results from the pre-mobilization samples. Subsequently the stockpiled soil was covered and fenced to limit access.

Prior to demobilization by the IRM remedial contractor, additional sampling of the staging area was conducted by E & E to more fully characterize the lateral and vertical limits of PCB contamination identified during the pre-mobilization of the staging area. An additional 25 soil samples were collected via manual auger and excavator test pits around the perimeter and within the footprint of the soil stockpile area. Based on the results obtained from this sampling program, the IRM contractor was directed by the NYSDEC to remove soils to depths ranging from 24 to 48 inches bgs beneath the former stockpile area.

A total of 407 tons of soil were excavated and disposed of from the Site as a result of this action (including the original soil stockpile material). A detailed description of the sampling performed, data summaries and excavation work performed under this IRM were included in Section 6.4 (East Yard Excavation) from the January 2005 "Interim Remedial Measure Summary Report" prepared by Ecology and Environment (Ref. 4).

2007 NTC Soil Investigation

In November and December of 2007, NTC performed a comprehensive grid based shallow soil/fill sampling program on the Site in order to characterize surface and selected subsurface soils for PCB impacts in anticipation of the potential redevelopment of the Site for additional manufacturing capacity in support of their current operations at 1747 Dale Road.

The investigation was performed by Benchmark Environmental Engineering and Science, PLLC on behalf of NTC and consisted of:

- Collection of forty (40) shallow (0-6 inches bgs) soil samples on a fifty foot grid interval spacing across the parcel (with the exception of the northwest and northeast corners of the Site) and analysis for total PCBs; and
- Advancement of seven (7) deeper (0-6 feet bgs) soil borings and collection of soil composite samples from each boring for analysis of total PCBs. The seven soil boring locations were selected primarily to assess subsurface soil conditions for foundation design purposes and were located in areas projected for excavation for building footers. Samples collected from these seven locations were analyzed for total PCBs, however as the samples were composited across the entire six foot boring depth, assignment of any detected PCB impacts to a particular depth is not feasible based on the sample collection method.

The results of the soil sampling investigation were transmitted to the NYSDEC and indicated that PCBs were detected at concentrations exceeding the 6 NYCRR Part 375 PCB SCOs for restricted residential or commercial uses (i.e., greater than 1 ppm) or restricted industrial use of the parcel (i.e., greater than 25 ppm). In particular, concentrations of PCBs at Surface Sample Locations 42 and 43 (approximately 20 feet east of the Site's western property line) were 1,060 and 443 ppm, respectively. These locations are located south of the staging area and sample locations associated with the 2004 IRM project. Seven other sample locations in the southwestern and central portions of the Site exceeded the Part 375 restricted industrial SCO. Lower detected concentrations (i.e., typically less than 5 ppm), however, were found to be widespread across the northern half of the Site. In addition to the soil/fill samples collected and analyzed, one 1-inch temporary shallow monitoring well (PZ-01) was installed and sampled. One sample was collected from this location and analyzed for total PCBs and the result reported a concentration of 6.76 µg/L (Arochlor 1260).

This investigation was conducted specifically to assess PCB impacts in soils as NTC evaluated options for a potential manufacturing expansion on the Site at that time. NTC explored the potential for entering

the NYSDEC BCP program at that time, however due to a variety of programmatic and economic reasons did not pursue further. No additional investigations prior to the BCP RI activities were subsequently performed on the Site.

1.3 Constituents of Primary Concern (COPCs)

Based on historic investigations, the Constituent of Primary Concern (COPCs) in the soil/fill and / or groundwater were identified to be PCBs. The Remedial Investigation approach described in the RI and IRM Work Plan (Ref. 4) focused on these COPCs as well as collecting data on volatile organic compounds (VOCs), semi volatile organic compounds (SVOCs), pesticides, heavy metals and cyanide based on the historic presence on the Site of railroads and in part for storage of construction materials and as a scrap yard.

2.0 INVESTIGATION APPROACH

The Remedial Investigation focused on identifying contaminants in soil/fill and groundwater that had not been characterized through the previous soil/fill investigations (in particular the comprehensive 2007 shallow PCB soil/fill investigation) or more fully characterize areas of the site for PCBs that were not addressed by previous investigations.

The RI supplemented the surface soil/fill PCB data for areas in the northwest and northeast portions of the Site where data gaps from the 2007 investigation existed. A total of four (4) additional surface soil locations were collected in these areas. In addition, ten (10) subsurface soil borings were advanced and five (5) groundwater monitoring wells were installed across the entire site for collection/characterization of representative subsurface soil/fill and groundwater samples for the RI.

Subsequent to receiving NYSDEC approval of the proposed sampling locations and testing parameters for the RI Work Plan, Golder performed the RI activities in September and October of 2009. The major components of the completed RI tasks are described in detail below. Remedial Investigation sample and groundwater monitoring well locations are illustrated on Figure 3-1. Any deviations from the proposed samples and analyses are described in the following sections.

2.1 Field Investigation Activities

2.1.1 Soil/Fill Investigation

As previously noted, the surface soil sampling program performed by NTC on the Site in 2007 provided an extensive characterization of PCB concentrations in the upper six inches of soil/fill. However, no samples were collected at that time from the northeast and northwest corners of the Site (refer to Sheet 1, “Dale Road Expansion Sampling Results, Dec. 2007 in Appendix A). Therefore, to more fully characterize the potential PCB impacts for the entire site, four additional surface soil samples (0-6 inches below grade) were collected and analyzed for total PCBs at the locations designated as SS-1 through SS-4 on Figure 3-1. The samples were collected using a stainless steel spade, which was decontaminated between each sample location.

A soil boring program was also implemented to thoroughly characterize the subsurface soil/fill and groundwater media, and to better characterize the overall site soil/fill overburden material for other potential contaminants of concern. The subsurface soil sampling program consisted of a total of ten (10) soil samples (B-1 through B-10) at evenly spaced intervals across the Site. Borehole locations as depicted on Figure 3-1 were adjusted in the field based on site conditions, accessibility, NYSDEC preferences, or other logistical concerns. In general, the final boring locations were nearly identical to those propose in the RI and IRM Work Plan.

A drilling rig using direct push drilling methods via a Geoprobe® equipped with a concrete core barrel was used to advance the five subsurface soil borings that were not completed as monitoring wells (B-2, B-3,

B-4, B-7 and B-8) through the soil/fill to a maximum of eight feet into the underlying native soil. Native soil material in the area(s) of investigation was encountered in each boring between 2-4 feet below ground surface (bgs). The drilling method used a 1.5-inch diameter, 4-foot core sampler with a dedicated PVC sleeve to advance and retrieve soil core samples at four foot intervals. Visual or olfactory contaminant impacts were not noted in any of the borings and saturated conditions were also not encountered; therefore, the total depth of the borings did not exceed the proposed eight feet.

Upon retrieval of each soil/fill core, the soil/fill samples were screened for total organic vapors using a photo-ionization detector (PID). The organic vapor measurements were recorded and the soil/fill material described on boring logs by a Golder field representative (provided in Appendix B). The recovered soils were characterized by visual observation in accordance with ASTM Method D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure). Subsurface soil samples were collected for chemical analysis at the boring locations. The depth from which samples were collected was determined based on screening results of visual and olfactory observations and PID measurements. Samples were collected from the discrete depth interval that displayed the greatest evidence of contamination, if any. If there were no discernable differences across the entire boring depth based on the visual, olfactory or PID screening methods, the default sample collection approach consisted of collecting a composite from the 0 to 4 feet bgs strata.

The boring locations that were advanced only for soil/fill sampling purposes (i.e., Borings B-1, B-2, B-3, B-4, B-7 and B-8) were grouted from total depth to ground level with a grout mixture of 95%cement and 5% bentonite.

2.1.2 Soil/Fill Sample Analyses

Surface soil/fill samples were collected using a stainless steel spade. Subsurface soil/fill samples were collected using a 1.5-inch diameter, 4-foot core sampler with a dedicated PVC sleeve. All non-dedicated, downhole sampling equipment was decontaminated between soil boring locations in accordance with accepted drilling practices using a high-pressure hot water “steam” cleaner, or scrubbed using Alconox® and a hot water followed by a clean potable water rinse. Representative soil samples were placed in pre-cleaned laboratory-provided sample bottles, cooled to 4^{o}C in the field, and transported under chain-of-custody command to Test America, located in Amherst, NY, a New York State Department of Health (NYSDOH) ELAP-certified analytical laboratory. Subsurface soil/fill samples were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), target compound list (TCL) pesticides, PCBs, target analyte list (TAL) metals, and cyanide. Soil samples were collected from the 0’-4’ bgs interval and analyzed for PCB content in borings B-1 and B-9. Prior to commencement of further borings, Mr. David Locey of the NYSDEC requested that the remaining samples from the borings be split into discrete 0’-2’ bgs and 2’-4’ bgs samples for PCB analysis. Therefore, soil samples were collected from the 0’-2’ bgs and 2’-4’ bgs intervals and analyzed for PCB content in borings B-2, B-3, B-4, B-5, B-6,

B-7 and B-8. Because sample recovery at boring location B-10 was insufficient to allow for a separate 2'-4' bgs interval sample, a 0'-2' bgs sample and a 0'-4' bgs sample was collected.

In December 2009, as part of the final RI/IRM Work Plan approval process, the NYSDEC requested the collection and analysis for PCBs of supplemental RI surface soil/fill samples both on and off the Site in order to address potential data gaps. On January 8, 2010, two surface soil/fill samples were collected east of Boring B-6/MW-3 on-Site and three surface soil/fill samples were collected off-site on the 1747 Dale Road parcel just west of the property line and Boring B-7. The sample locations are also presented on Figure 3-1.

All samples were collected and analyzed in accordance with USEPA SW-846 methodology, while the laboratory is required to furnish an equivalent ASP Category B deliverables package to facilitate data evaluation and preparation of a DUSR by a third party validation expert. Accordingly, the samples were analyzed by an NYSDOH ELAP-approved laboratory certified to perform CLP work.

2.1.3 Groundwater Investigation

Golder personnel provided oversight for the installation of five new groundwater monitoring wells (i.e. MW-1 through MW-5) from September 17 through September 21, 2009 to investigate groundwater flow and quality. Figure 3-1 shows the locations of the monitoring wells. Monitoring well installation, well development, and groundwater sample collection are discussed in the following sections.

2.1.4 Monitoring Well Installation

Monitoring wells were installed in accordance with the approved RI/IRM Work Plan. Monitoring Well construction details are presented on the Field Borehole Logs in Appendix B.

Subsequent to borehole advancement and soil/fill sampling at boring locations B-1, B-5, B-6, B-9 and B-10, temporary monitoring wells were installed in each of the boreholes (Monitoring Wells 1, 2, 3, 4, and 5, respectively). Due to the apparent northward slope of the subsurface groundwater table, wells were installed to a greater depth at the northern end of the Site, and became shallower towards the southern end of the Site. As such, Monitoring Well 1 (MW-1) was installed to a depth of 20' bgs; MW-2 and MW-3 to a depth of 16' bgs, and MW-4 and MW-5 to a depth of 14' bgs.

Shallow overburden well borings were advanced using 4.25-inch I.D. hollow stem augers (HSA). A 2-inch diameter, 2-foot long split spoon sampler was advanced ahead of the auger string with a standard 140-pound hammer. Recovered samples were examined by qualified Golder personnel and characterized in accordance with ASTM Method D2488, Standard Practice for Description and Identification of Soils (Visual-Manual Procedure), scanned for total volatile organic vapors with a calibrated PID equipped with a 10.6 eV lamp, and characterized for impacts via visual and/or olfactory observations. All non-dedicated drilling tools and equipment were decontaminated between boring locations using potable tap water and a phosphate-free detergent (i.e., Alconox).

Each monitoring well was constructed of 2-inch I.D. flush-joint Schedule 40 PVC solid riser and machine slotted screen (0.010-inch slot size). The monitoring well screen measured approximately 10 feet in length in MW-1, MW-2 and MW-3, and 7 feet in length in MW-4 and MW-5. Approximately 6 inches of silica sand was placed at the bottom of each boring as a base for the well screen and as part of the sand pack. The well screen and attached riser were placed within the borehole on top of the 6-inch sand layer and the remainder of the sand pack was installed within the borehole annulus to a level of about 3 feet above the top of the well screen. A bentonite seal (2 feet thick) was installed immediately above the sand layer. The bentonite seal was constructed with 3/8-inch bentonite pellets or medium bentonite chips and allowed to hydrate sufficiently to mitigate the potential for down-hole grout contamination. The top of the well riser pipes extended approximately 3 feet above grade and were fitted with a lockable J-plug.

2.1.5 Groundwater Sample Collection

Newly-installed monitoring wells were developed prior to sampling to remove residual sediments and ensure hydraulic connection within the water-bearing zone. The development procedure required purging of the groundwater and periodical surging of the groundwater in the well to loosen and remove suspended fines from the well screen and sandpack. Measurements of the water volume removed and water quality parameters including temperature, pH, conductivity, and turbidity were recorded at regular intervals throughout the development process. Development continued until water quality measurements stabilized to within 10 percent of the previous measurement.

Originally, groundwater was to be collected from each well using low flow sampling techniques (typically less than 0.1 L/min) via dedicated plastic flex tubing and a peristaltic pump. However, it was determined that low-flow sampling was not feasible due to insufficient groundwater recharge rate. Therefore, new and dedicated disposable HDPE bailers were used to collect the groundwater samples.

Field measurements for pH, specific conductivity, temperature, turbidity and water level as well as visual and olfactory field observations were periodically recorded and monitored for stabilization during well purging prior to sampling. Copies of these well development records are provided in Appendix B. Purging was considered complete when pH, specific conductivity and temperature stabilize. Stability is defined as variation of between field measurements of 10 percent or less and no overall upward or downward trend in the measurements. Turbidity was determined by visual inspection of the purge water. The purge water remained slightly turbid with a brown to gray color with little variation in appearance throughout purging. Turbidity was therefore not considered as an indicator in the completion of purging. It should be noted that each sample collected was analyzed by the laboratory for turbidity.

Prior to and immediately following collection of groundwater samples, field measurements for pH, specific conductivity, temperature, turbidity and water level as well as visual and olfactory field observations were recorded. All groundwater samples were collected in the pre-cleaned and pre-preserved laboratory sample bottles in accordance with the RI/IRM Work Plan protocols for analyses.

Subsequent to sample collection all groundwater samples were placed on ice and shipped under chain of custody to the selected analytical laboratory.

2.1.6 Groundwater Sample Analyses

Groundwater samples were collected from MW-1, MW-2, and MW-4. Groundwater samples were not collected from MW-3 and MW-5, as those wells were dry at the time of sampling. Collected groundwater samples were analyzed for VOCs, SVOCs, TCL Pesticides, PCBs, TAL metals, and cyanide. All samples were collected and analyzed in accordance with USEPA SW-846 methodology, while the laboratory is required to furnish an equivalent ASP Category B deliverables package to facilitate data evaluation and preparation of a DUSR by a third party validation expert. Accordingly, the samples were analyzed by an NYSDOH ELAP-approved laboratory certified to perform CLP work.

2.1.7 Sediment and Surface Water Sample Collection and Analysis

In December 2009, as part of the final RI/IRM Work Plan approval process, the NYSDEC requested the collection and analysis for PCBs of supplemental RI off-site drainage ditch surface water and sediment samples in order to better assess potential off-site PCB impacts from run-off. On January 8, 2010, three surface water and two sediment samples were collected from the water drainage ditch located immediately south of the Site property line. The SW-1/SED-1 location was selected to be representative of upgradient off-site drainage, the SW-2/SED-2 location was selected to be representative of Site runoff and the SW-3/SED-3 location was selected to be representative of the runoff immediately downgradient of the Site. A sediment sample from the SED-3 location was not obtained due to the lack of sediment at this location (concrete construction of the ditch was surmised to have enhanced scouring here). The sample locations are also presented on Figure 3-1.

2.1.8 Field Specific Quality Assurance/Quality Control Sampling

In addition to the soil/fill and groundwater samples described above, field-specific quality Assurance/Quality Control (QA/QC) samples were collected and analyzed to confirm the reliability of the reported data as described in the QAPP and to support the required third-party data usability assessment. Site specific QA/QC samples included one trip blank (accompanying VOC samples only), one matrix spike (MS), one matrix spike duplicate (MSD), and one field duplicate sample.

2.2 Site Mapping

Figure 3-1 shows the relevant features of the Site, monitoring well and sample locations, and final remedial excavation boundaries. Surface soil/fill and boring locations were field located based on measurements from known benchmarks (e.g., rebar, pins, etc.) established during the 2007 boundary survey of the Site. Final monitoring well locations as depicted on Figure 3-1 and elevations were surveyed after installation.

The Site Map (Figure 3-1) was prepared by a New York State licensed surveyor. The surveyor established the horizontal and vertical elevations using the New York State Plane Coordinate System and most recent vertical datum. Elevations of the ground surface and top of PVC riser were measured and recorded for each monitoring well.

3.0 SITE PHYSICAL CHARACTERISTICS

The physical characteristics of the Site observed during the RI are described in the following sections.

3.1 Site Topography and Surface Features

The Site generally rectangular is shape with the long axis of the parcel oriented along the North-South axis. It slopes slightly to the southwest with limited distinguishable Site features. The Site is vacant with no current structures. The northern half of the site's surface is mainly covered by grassy vegetation with limited patches of stone and soil. The southern half of the site is mostly wooded or covered by dense brush.

3.2 Geology and Hydrogeology

3.2.1 Overburden

Soil boring logs collected during the RI indicate that the majority of the Site is overlain by a two to three feet-thick fill layer that is shallower on the northern half and increases in thickness to the south. Below the fill, the native soils composed of varying layers of either silty clays or fine sand strata. The silty clay or sand units transition generally below 5 feet bgs to a stiff or hard clay unit that is relatively consistent at these depths across the site. The clay layer is characterized as hard and dry with occasional to frequent rock clasts and trace amounts of silt within the clay matrix.

3.2.2 Bedrock

The Site is situated over the Onondaga Formation of the Middle Devonian Series based on a review of the bedrock geologic map of Erie County. The Onondaga limestone is comprised of a varying texture from coarse to very finely crystalline limestone with a dark gray to tan color and chert and fossils within. The unit has an approximate thickness of 110 to 160 feet. Structurally, the bedrock formations strike in an east-west direction and exhibit a regional dip that approximates 40 feet per mile (3 to 5 degrees) toward the south and southwest. As a result of this dip, the older Onondaga limestone outcrops or subcrops north of the Hamilton Group. An intersecting, orthogonal patter of fractures and joint sets are common throughout the bedrock strata. The surficial geomorphology of the bedrock strata was modified by period subaerial erosion and continental glaciation. Based on geotechnical borings performed for predevelopment design purposes, bedrock is known to be 40 feet or greater bgs and was not encountered during RI soil boring advancement.

3.2.3 Hydrogeology

Based on historical groundwater potentiometric data collected at both the 1747 Dale Road parcel and the ROCO Ltd. site located at 1746 Dale Road to the north/northwest of the Site, the general direction of groundwater flow in the vicinity of the Site is generally known to be to the south and south east. This historical data correlates with groundwater elevation measurements collected from RI monitoring wells MW-1, MW-2 and MW-4 during well development and sampling activities on October 8, 2009. The

groundwater elevation measured at MW-1 (located in the northwest corner of the Site) was 652.37 and the groundwater elevation measured at MW-4 (located in the southwest corner of the Site) was 639.72. This is an elevation differential of approximately 12.6 feet from the north to the south of the Site.

A review of historical groundwater elevation information from the adjacent 1747 Dale Road parcel to the west of the Site indicated that the groundwater depth is highly variable on a seasonable basis and the first water bearing zone (i.e., water table) has ranged from less than 0.1 to greater than 12 feet bgs. The most recent semiannual groundwater monitoring event was performed in May 2009 (Ecology & Environment) and recorded groundwater depths on the 1747 Dale Road parcel ranging between 3.7 and 4.7 feet bgs.

4.0 INVESTIGATION REULSTS BY MEDIA

The following sections discuss the analytical results of the Remedial Investigation. Tables 4-1A and 4-1B, 4-2 and 4-3 summarize the soil/fill, sediment/surface water and groundwater analytical data, respectively. Analytical laboratory data reports are included in Appendix C. Figure 3-1 presents the soil/fill, sediment, surface water sampling and groundwater monitoring locations.

4.1 Soil/Fill

Tables 4-1A (volatile organic compounds, semi-volatile organic compounds, pesticides/herbicides and metals) and 4-1B (PCBs) present a comparison of the detected soil/fill parameters to Restricted Industrial and Commercial Use Soil Cleanup Objectives (SCOs) contained in 6NYCRR Part 375-6.4. Although the Site is intended to be used for industrial purposes, evaluating a more restricted-use scenario is a requirement of the BCP. Soil/fill analytical data compared to Part 375 Restricted Commercial SCOs is further discussed in Sections 8.3.2 and 8.3.3. Sample results are described below according to contaminant class.

4.1.1 Volatile Organic Compounds

The majority of the analyzed volatile organic compounds (VOCs) were reported as non-detectable or at trace (estimated) concentrations below the sample reporting limits. Detected VOC sample concentrations did not exceed Part 375 Restricted Industrial or Commercial SCOs.

4.1.2 Semi-Volatile Organic Compounds

As presented in Table 4-1A, the majority of the samples analyzed had semi-volatile organic compounds (SVOCs) reported as non-detectable or at trace (estimated) concentrations below the sample reporting limit. All but two sample locations had SVOCs concentrations below Part 375 Restricted Industrial or Commercial SCOs. The only constituent detected above the SCOs was one polycyclic aromatic hydrocarbon (PAH) [i.e., benzo(a)pyrene] in samples B-2 (1.4 PPM) and B-7 (1.9 PPM). Based on the lack of elevated PID readings, visual and/or olfactory evidence of contamination, the slightly elevated SVOC appears to be associated with the historic fill, which is common for developed, industrialized areas.

4.1.3 Metals

Metals detected in the soil/fill samples did not exceed Part 375 Restricted Industrial or Commercial SCOs at any of the sampling locations.

4.1.4 Pesticides, Herbicides and Cyanide

Pesticides or cyanide detected in the soil/fill samples did not exceed the Part 375 Restricted Industrial or Commercial SCOs at any of the sampling locations. Herbicides were not detected in any of the samples.

4.1.5 PCBs

Soil Borings

Table 4-1B summarizes the PCB sample analysis data for all soil boring locations. PCBs did not exceed Part 375 Restricted Industrial SCO of 25 ppm in any soil/fill boring samples. At boring locations B-3(0-2 ft) [1.7 ppm], B-5 (0-2 and 2-4 ft) [10 and 3.5 ppm], B-6 (0-2) [2.2 ppm] and B-7 (0-2 ft) [22 ppm] the soil/fill exceeded the Restricted Commercial SCO of 1 ppm.

Surface Soil/Fill Samples

Surface soil analytical results are summarized in Tables 4-1B and 4-2 (Supplemental RI Sample Results). The on-Site surface soil/fill samples did not exceed the Part 375 Restricted Industrial SCOs for PCBs. Three on-Site surface soil/fill locations (SS-3 [4.5 ppm], SS-5 [6 ppm] and SS-6 [4.1 ppm]) exceeded the Restricted Commercial SCO. The off-site surface soil/fill sample SS-7 [49 ppm] exceeded the Restricted Industrial SCOs for PCBs. Off-Site surface soil/fill samples SS-8 [1.2 ppm] and SS-9 [1.3 ppm] exceeded the Restricted Commercial SCO.

Surface Water and Sediment

Surface water and sediment analytical results are summarized in Table 4-2 (January 2010 Supplemental RI Sample Results). PCBs were not detected in the three off-site surface water samples collected from the drainage ditch adjacent to the south property line. PCBs were detected in both sediment samples collected from the same ditch. At SED-1 (upstream) the detected concentration was 0.24 ppm and at SED-2 the detected concentration was 0.38 ppm.

4.1.6 Summary

As described above, concentrations of VOCs, SVOCs, metals, pesticides, herbicides, and cyanide were below Part 375 Restricted Industrial and Commercial SCOs with the exception of benzo(a)pyrene which was detected at sample locations B-2 and B-7 slightly above the respective Part 375 SCOs. Sample B-7 was collected from a depth of 0-4 ft, this sample location was within the IRM excavation area where the fill was excavated to a depth of approximately 1.5 ft. It is therefore likely that some or the entire fill exhibiting elevated PAHs in the B-7 sample location may have been removed with the fill excavated from this grid area. PAHs tend to be ubiquitous in the environment, as they are produced from incomplete combustion of fossil fuels and other organic fuel sources, and are commonly found in historic fill and industrialized environments. Table 4-1A provides a summary of all detected compounds and all analytical data reports are provided in Appendix C.

PCBs were not found at concentrations exceeding the Part 375 Restricted Industrial SCO in any of the on-Site investigation locations outside of the IRM excavated grid areas. PCBs were detected above the Part 375 Commercial SCO in four boring samples (primarily from 0-2 feet bgs) and three surface sample locations distributed across the Site. Tables 4-1B and 4-2 provide a summary of all detected compounds and all analytical data reports are provided in Appendix C. One off-site surface sample (SS-7) was

detected above the Restricted SCO, however the adjacent surface samples directly south and at a lower elevation with respect to this location were found to have concentrations of 1.2 and 1.3 ppm respectively. This was determined to be an anomalous result and inconsistent with the data collected at adjacent sampling locations.

4.2 Groundwater

Table 4-3 presents a comparison of the detected groundwater parameters to the Class GA Groundwater Quality Standards (GWQS) per NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (June 1988). The sampling results for groundwater monitoring completed in the December 2007 Investigation for Piezometer PZ-01 and the BCP RI October 2009 for monitoring wells MW-1, MW-2 and MW-4 are discussed in the following sections. Samples were not obtained or analyzed from MW-3 or MW-5, as the wells were repeatedly found to be dry during and subsequent to the initial sampling event.

4.2.1 Volatile Organic Compounds

VOCs were not detected in any of the groundwater samples collected from monitoring wells MW-1, MW-2 or MW-4.

4.2.2 Semi-Volatile Organic Compounds

With the exception of three compounds, the majority of samples analyzed for SVOCs were not detected. All SVOC detections reported were at trace (estimated) concentrations below the sample reporting limit. None of the samples exceeded the GWQS.

4.2.3 Metals

Metals detected at concentrations above GWQS were limited to naturally-occurring metals typically detected in this concentration range , including iron, manganese, and sodium.

4.2.4 Pesticides, Herbicides and Cyanide

Herbicides or pesticides were not detected above GWQS in any of the samples. Cyanide was not detected in the groundwater samples analyzed.

4.2.5 PCBs

PCBs were detected at a concentration of 6.7 ppb in temporary Piezometer PZ-01 which was installed at boring location SB-66 during the December 2007 Investigation. Although this concentration exceeds the GWQS for PCBs (i.e., 0.09 ug/L), the construction and installation features of this piezometer combined with the additional data collected during the 2007 Investigation and BCP RI indicate that this result is most likely anomalous and not representative of groundwater at this location. Specifically, it should be noted that PCBs were not detected in the 0-6 foot composite soil sample collection at this boring location prior to the installation of the piezometer in 2007. Furthermore, as the piezometer was intended as a temporary

monitoring location, it was installed directly into the completed soil boring and did not incorporate a sand pack or bentonite seal that would typically be used on a monitoring well designed to prevent downhole or sediment intrusion into the water column, which is the suspected source of the PCBs detected in this piezometer. As part of the BCP RI, monitoring well MW-4 was installed approximately 35 feet northwest of the PZ-01 location. PCBs were not detected in samples collected from MW-4 in October 2005 nor were they detected in the remaining RI monitoring wells (MW-1 and MW-2) where samples were obtained, All RI monitoring wells incorporated ten feet of continuous well screen across the shallow aquifer and were installed with a sand filter pack and bentonite seals.

4.2.6 Summary

As described above and in Table 4-3, concentrations of VOCs, SVOCs, pesticides, herbicides, cyanide, and PCBs were below GWQS with the exception of naturally-occurring metals, including iron, manganese, and sodium.

4.3 Data Usability Summary

In accordance with the RI Work Plan, the laboratory analytical data from this investigation was independently assessed and, as required, submitted for independent review. Ms. Judy Harry of Data Validation Services located in North Creek, New York performed the data usability summary assessment, which involved a review of the summary form information and sample raw data, and a limited review of associated QC raw data. Specifically, the following items were reviewed:

- Laboratory Narrative Discussion
- Custody Documentation
- Holding Times
- Surrogate and Internal Standard Recoveries
- Matrix Spike Recoveries/Duplicate Recoveries
- Field Duplicate Correlation
- Preparation/Calibration Blanks
- Control Spike/Laboratory Control Samples
- Instrumental IDLs
- Calibration/CRI/CRA Standards
- ICP Interference Check Standards
- ICP Serial Dilution Correlations
- Sample Results Verification

The Data Usability Summary Report (DUSR) was conducted using guidance from the USEPA Region 2 validation Standard Operating Procedures, the USEPA National Functional Guidelines for Data Review, as well as professional judgment.

In summary, most sample results are usable as reported, or with minor qualification. However, the following issues were noted:

- Results for one volatile analyte were rejected in two soil samples
- Reporting limits are elevated in most of the semi-volatile soil samples due to excessive dilution
- Many of the pesticide reported detections were qualified and are suspect as being the result of interferences from the Aroclor constituents.

Any additional qualifications of the data have been incorporated to the summary data tables. The DUSR is included in Appendix D.

5.0 INTERIM REMEDIAL MEASURES (IRM)

An IRM was implemented at the Niagara Transformer 1755 Dale Road Site subsequent to completion of RI activities. Details of the IRM approach are described in the August 2009 RI/IRM Work Plan (Ref.1). Based on the nature and extent of contamination as indicated by prior investigations (primarily based on the PCB impacts identified as a result of the 2007 NTC Soil Investigation) and the planned redevelopment of the subject property, the IRM Work Plan called for source removal via excavation, with off-site disposal of impacted soil. The IRM Work Plan was advertised with the Brownfield Cleanup Program Application for the Site in October 2009. The Work Plan was approved in January 2010.

The IRM work was implemented by Golder Associates Inc. on behalf of the Site owner, Niagara Transformer Corp (NTC). Excavation and associated remedial activities were contracted by NTC to Trec Environmental, Inc. Remediation was initiated on February 12, 2010 and was substantially completed by April 21, 2010. Impacted soil that exceeded the NYSDEC Part 375 restricted industrial SCOs for total poly-chlorinated biphenyls (PCBs) was identified in thirteen (13) excavation grids that were approximately 50 ft. by 50 ft. in area. Refer to Figure 5-1 for a delineation of the excavation grid numbering system. These soils were further characterized as hazardous (i.e., greater than 50 ppm for total PCBs) or non-hazardous (i.e., less than 50 ppm for total PBCs) in each of the grids. All soils that exceeded the Part 375 Restricted Industrial SCO were removed by excavation and transported off-site for disposal at CWM Chemical Services, L.L.C. in Model City, NY. Specific elements of the IRM included:

- Clearing and removal of large trees and brush within the planned excavation footprint;
- Excavation and on-site staging of non-hazardous soil grids. Approximately 1,097 tons of non-hazardous soil was temporarily relocated to an onsite spoils lay down area for further testing and characterization prior to disposal off site. Grids identified as numbers 3, 4, 5 and 7 were characterized as non-hazardous based on the 2007 surface soil investigation performed by NTC. Grid 3, 4 and 7 sample results from the 2007 investigation indicated that the surficial soils were technically below the Part 375 Restricted Industrial SCO. However, it was determined that based on their location between other grids that exceeded the SCO that it was impractical to leave the soil/fill from these grids in place. Therefore they were included in the non-hazardous excavation plan.
- Excavation of PCBs hazardous (i.e.> 50 ppm) soil/fill. Approximately 2,075 tons of soil/fill were removed as hazardous waste for off-site disposal. Grids identified as numbers 1, 2, 6, 8, 9, 10, 11, 12 and 13 were characterized as hazardous based on the 2007 surface soil investigation performed by NTC.
- Characterization and off-site disposal of approximately 6 partially crushed and deteriorated drums containing non-hazardous roofing tar residuals;
- Excavation and on-site relocation of large pieces of concrete rubble from several designated grid areas;
- Verification sampling of the sidewalls and floor areas of the excavated. Golder personnel collected 11 sidewall, 20 floor and 4 sidewall verification samples within the excavation limits and from stockpiled soil from the non-hazardous grids;
- Off-site transportation and disposal of hazardous and non-hazardous soil/fill to the CWM Chemical Services TSD Facility, Model City, New York. All trucks were lined with polyethylene liners so as to allow the soil to be fully removed from the truck;

- Community dust monitoring program implemented during excavation activities. Golder personnel set up and monitored dust monitoring equipment upwind and downwind of excavation activities throughout the project

In general, each individual grid was excavated using a track mounted John Deere 200C LC excavator with a smooth-edged grading blade attached to the excavator bucket. Excavated soils from hazardous characterized grids were direct-transferred into the bucket of a Volvo L70E bucket loader and transported to haul trucks waiting on site for direct loading.

Excavation of the hazardous soil grids (i.e., grids containing soils greater than 50 ppm for total PCBs) was completed first beginning at the southwest corner of the site at Grid 13, so as to complete excavation activities by working from the south end towards the north end of the site. Such activities consisted of performing an excavation measuring approximately 50 feet by 50 feet by approximately 1 foot deep. Typically the excavations followed the existing ground surface contours so as to adhere to the proposed 1 foot excavation depth at each grid. In Grids 2, 6, 8, 9 and 13 the majority of the excavations were continued from 1 to 2 feet deeper than the proposed 1 foot maximum depth based on either initial floor verification sample results that indicated the Restricted Industrial SCO for PCBs had not been met or was below the SCO but considered to be too close to the threshold. In addition, in Grids 6 and 8 excess mounded fill due to an existing topsoil pile present on the western property line border was also excavated and removed. The base of this topsoil pile extended approximately ten feet into the western edge of Grids 6 and 8 and was excavated until it appeared that no fill was present and native soil was encountered.

Special provisions were undertaken to complete the IRM excavation at Grid 13, located at the southwest corner of the Site. Although the floor verification sample collected after the initial excavation of the grid indicated a PCB concentration of 0.2 ppm, subsequent sampling of all the sidewalls indicated concentrations in excess of the Part 375 Restricted Industrial SCO for PCBs (and in some cases in excess of 50 ppm) and led to multiple rounds of additional excavation on every sidewall. In particular, at the southern perimeter of this grid, a soil berm that remained after the initial grid excavation was completely removed based on high sidewall PCB concentrations. The excavation along the southern property line was completed when the floor of the grid was observed to be native soil material and extended to the edge of the concrete lined drainage ditch for the majority of the 50 foot grid length along the Site property line. The northern, western and eastern edges of the grid were also re- excavated approximately 2 – 4 feet further in each direction to address non-conforming initial verification results. The south berm was excavated and removed approximately ten feet east of the original grid footprint to a point where the berm tapered out to existing surrounding grade. A verification sample taken approximately 80 feet east along the southern property line where the berm again was observed to reemerge beyond the excavation, verified that this soil/fill was well below the IRM SCO.

It should be noted that excavation of Grid 13 to its originally planned western boundary along the property line of the Site could not be performed due to the presence of the 18-inch HDPE storm sewer drainage pipe and associated bedding material. This pipe, which collects all stormwater from the 1747 Dale Road parking and roof drains, appears to have been mistakenly installed across the southwest corner of the BCP parcel during the completion of the 1747 Dale Road remedial activities. Therefore it was determined to leave the pipe bedding and pipe in this area undisturbed which required termination of the grid excavation 2-3 feet east of the original grid layout. The verification soil sample collected from the west wall of Grid 13 resulted in a PCB concentration of 0.37 ppm, therefore further excavation west towards the property line was not necessary as the SCO objective was achieved along this excavation perimeter.

Excavation of the non-hazardous grids (i.e., grids containing soils less than 50 ppm for total PBCs) was performed following removal of the surrounding hazardous soil grids. Typically the excavations followed the existing ground surface contours so as to adhere to the proposed 1 foot excavation depth at each grid. In Grids 3 and 7 the excavations were continued from 1 to 2 feet deeper than the proposed 1 foot maximum depth based on either initial floor verification sample results that indicated the Restricted Industrial SCO for PCBs had not been met or was below but considered to be too close to the cleanup threshold. For example, this approach was applied at Grid 3 where, after three rounds of excavation, the floor verification sample still returned a result of 24 ppm. As this concentration was just below the SCO and not consistent with the residual concentrations achieved in adjacent grids, a fourth floor excavation was performed and resulted in a total approximate soil/fill excavation depth in this grid of over 3 feet from original grade. This fourth excavation effort achieved a final soil/fill concentration consistent with the adjacent grids.

Subsequent to IRM excavation activities, geotechnical borings were conducted across the Site to delineate remaining fill depths for future redevelopment activities. At one of these geotechnical borings (FB-60) located approximately 80 feet northeast of MW-4 and 70 feet northwest of MW-5, a layer of tar-like material was encountered approximately 6 – 8 inches thick. This location is consistent with the area where approximately six drums of roofing tar residuals were removed during the IRM and is on the eastern central border of IRM excavation Grid 12. At the direction of Golder, 12 additional borings were conducted in a radial compass pattern around boring location FB-60 to delineate the extent of this tar and for collection of analytical samples. This focused investigation determined that a layer of tar approximately 6-inches thick encompassed an area approximately 10 feet by 10 feet extending to the east and southeast of boring FB-60. Based on the average thickness of 6 inches encountered in the three borings where it was observed, it is estimated that the total quantity of tar is approximately 2 cubic yards. A representative sample of the tar material was collected from the borings where tar was observed and analyzed for PCBs, SVOCs and TCLP VOCs. PCBs were not detected in the sample and the results for all TCLP VOCs parameters were non-detect. Twenty SVOCs were detected in the sample, however none of the detected constituents exceeded the Part 375 Restricted Commercial or Industrial SCOs [Table 375-6.8(b)]. As part of the initial Site redevelopment activities, the fill encompassing the entire

area where the tar layer was delineated is planned for excavation and relocation to the adjoining East Parcel pending approval under the Excavation Work Plan. The layer of tar material, however, will be excavated prior to general fill excavation, characterized for waste profiling as industrial, non-hazardous waste and placed in a dedicated roll-off container for off-site disposal at a permitted facility.

The surveyed limits of all IRM excavation areas are included on Figure 5-2. A photographic log documenting the IRM activities is presented in Appendix E.

5.1.1 Post Excavation Verification Sampling Results

As indicated above, Golder personnel collected 11 sidewall, 20 floor and 4 soil/fill stockpile verification samples during the course of the IRM grid excavation activities in conformance with the sampling plan provisions of the RI/IRM Work Plan. A summary of the verification sample analytical results is provided in Table 5-1. The table includes the results for all verification samples collected and illustrates where multiple rounds of verification samples were collected until the final cleanup objective was satisfied (e.g., refer to Grid 3 Floor sample progression). Figure 5-2 illustrates the final floor and sidewall soil/fill verification sample results for each grid and the berm located east of Grid 13 locations. Figure 5-2 also includes test results from the December 2007 Investigation and BCP RI samples collected outside the IRM excavated areas to delineate the locations and concentrations of PCBs that remain in shallow soil/fill on the Site. All verification laboratory analytical data reports are provided in Appendix C. All floor and sidewall samples verified conformance with the Part 375 Restricted Industrial SCO for PCBs and confirmed achievement of remedial objectives for subsurface soil/fill as outlined in the RI/IRM Work Plan. Although not initially proposed in the RI/IRM Work Plan, many of the sidewall verification samples were collected and analyzed at the request of the NYSDEC with concurrence from Niagara Transformer Corp. In particular, it was agreed that assessing the residual concentrations along the western property line shared with the 1747 Dale Road parcel (i.e., Grids 2, 6, 11 and 13) would provide a better understanding as to what contaminants still remained in those area.

6.0 FATE AND TRANSPORT OF COPCS

The soil/fill and groundwater sample analytical results were correlated with the physical characterization of the Site to evaluate the fate and transport of Constituents of Primary Concern (COPCs) in Site media. The mechanisms by which the COPCs can migrate to other areas or media are briefly outlined below.

6.1 Fugitive Dust Generation

Volatile and non-volatile chemicals present in soil can be released to ambient air as a result of fugitive dust generation. Since the Site was primarily characterized as flat with limited distinguishable features and heavily vegetated prior to the initiation of the IRM, suspension of soil particulates due to wind erosion or physical disturbance of surface soil/fill is unlikely. IRM work activities were performed during the winter and early spring of 2010 and continuous particulate monitoring performed during these activities documented that dust generation was insignificant and could not be quantified beyond background levels during the excavation and associated IRM activities.

As a result of the completed IRM activities, the areas of the Site that exhibited elevated PCB concentrations in surficial soil/fill have been removed to levels well below the Part 375 Restricted Industrial SCO. Furthermore, under the planned redevelopment of the Site, the majority of the Site will be developed for industrial land use and will be covered by structures, asphalt, concrete, with associated vegetative cover in all areas not otherwise covered by manmade materials. Therefore, this migration pathway is not considered relevant under the current and reasonably anticipated future land use.

6.2 Volatilization

Volatile chemicals present in soil/fill and groundwater may be released to ambient or indoor air through volatilization either from or through the soil/fill underlying current or future building structures. Volatile chemicals typically have a low organic-carbon partition coefficient (K_{OC}), low molecular weight, and a high Henry's Law constant. No volatile organic compounds were detected during the RI sampling program in on-Site soil/fill above 6NYCRR Part 375 unrestricted Residential use SCOs, (refer to Table 4-1A).

VOCs were not detected above GWQS in the upgradient or downgradient monitoring wells, (MW-1 and MW-2 and MW-4, respectively). Accordingly, the volatilization pathway is not considered relevant from the soil or groundwater at this Site.

6.3 Surface Water Runoff

Erosion and transport of surface soils and associated sorbed chemicals in surface water runoff is a potential migration pathway. The potential for long-term PCB-impacted soil particle transport with surface water runoff is low, as the IRM has addressed removal of elevated PCB impacted soil/fill in shallow soils. As described above, under the reasonably anticipated future industrial based land use proposed, a significant portion of the Site will be covered with man-made materials, (e.g., asphalt, buildings, etc.). Furthermore, the redevelopment of the Site will incorporate a new stormwater collection, retention and

discharge system designed in accordance with New York State stormwater standards to provide a mechanism for controlled surface water transport that will result in minimization of sediment erosion and provide an on-Site capture mechanism within a stormwater retention basin. However, since stormwater generated during excavation activities under both the current and future use scenarios could entrain sediment particles potentially containing low concentrations of PCBs, this pathway is potentially relevant under the current and reasonably anticipated future land use.

6.4 Leaching

Leaching refers to chemicals present in soil/fill migrating downward to groundwater as a result of infiltration of precipitation. However the primary COPC at the Site is PCBs which is known to have very low mobility and solubility characteristics in soil matrices. Furthermore, the known impacted PCB soil/fill has been removed from the Site during IRM activities to below the Part 375 Restricted Industrial SCO, therefore, leaching is not considered a relevant migration pathway.

6.5 Groundwater Transport

Groundwater sampling conducted during the RI confirmed that groundwater has not been impacted by the COPC and no contaminants were detected above New York State Class GA GWQS in any of the Site monitoring wells. Therefore, groundwater transport is not considered a relevant migration pathway.

6.6 Exposure Pathways

Based on the analysis of chemical fate and transport provided above, the potential exposure pathway by which COPCs may reach offsite receptors is surface water migration. This potential exposure pathway is anticipated to be substantially mitigated over the long term by both the completion of the soil/fill IRM and, as described above, the installation and implementation of a Site stormwater collection and management system designed in accordance with New York State standards to significantly mitigate the potential for soil erosion on-Site and the potential for off-site transport of soil particles in the form of sediment. This stormwater management system and the anticipated future redevelopment plans for the Site should substantially if not completely address and mitigate this exposure pathway.

The Site Management Plan under preparation for the Site provides proposed strategies to perform stormwater discharge monitoring and evaluation of this potential exposure pathway subsequent to Site redevelopment, to determine the effectiveness of the planned mitigation measures and whether additional measures are required to further reduce off-site exposure to PCB impacted stormwater.

During proposed construction activities, erosion and sediment control strategies required under a NYSDEC Construction Stormwater permit and Stormwater Pollution Prevention Plan (SWPPP) will be implemented to mitigate off-site exposure from stormwater generated during construction related activities.

7.0 QUALIATIVE RISK ASSESSMENT

7.1 Potential Human Health Risks

The Site is presently unoccupied, but planned for redevelopment as an industrial manufacturing facility. As such, under current and future conditions, human contact with the Site can be expected to occur primarily by three types of receptors: trespassers who may traverse the property, construction workers involved in redevelopment related construction activities and industrial workers. Trespassers may be comprised of adolescents or adults, whereas construction and industrial workers would be limited to adults. In all instances, exposure frequency is expected to be minimal. The Site is located in an area where the predominate land use is commercial or industrial, and separated from residential areas by a large rail corridor and major road or highway arteries, further reducing the potential for casual trespassers.

For trespassers, construction and industrial workers, the Site contaminants in soil were removed to industrial cleanup standards. The reasonably anticipated future use of the Site is consistent with its current industrial zoning, with exposed receptors comprised of adults who may work on the property in an occupational setting, customers and vendors (adults), who visit the property for short durations, and occasional construction workers who may access subsurface utilities during non-routine maintenance activities. Site soils were remediated to levels deemed protective under Part 375 of this type of end use.

For stormwater, the proposed design of the proposed dedicated collection and management facilities at the Site mitigates the potential for routine, direct human contact or ingestion. Non-routine contact with Site stormwater is expected to be limited to short durations under specific construction conditions (e.g., a construction worker managing accumulated stormwater during subsurface excavation work). Given the limited frequency and duration of these non-routine activities, and the relatively low level of remaining PCB impacted soils (i.e., < 5 ppm in post IRM Site soil/fill), direct stormwater exposure pathways for onsite and offsite receptors are considered relevant but minimal in risk.

7.2 Potential Ecological Risks

The 1755 Dale Road BCP Site is a located within a highly developed, industrialized area in the Town of Cheektowaga and has a long history of use for industrial or commercial purposes. The Site is currently vacant, providing minimal wildlife habitat or food value. No natural waterways are present on or adjacent to the Site. The reasonably anticipated future use is industrial with the majority of the Site covered by buildings, asphalt and associated concrete structures. As such, no unacceptable ecological risks are anticipated under the current or reasonably anticipated future use scenario.

8.0 REMEDIAL ALTERNATIVES EVALUATION

8.1 Remedial Action Objectives

The final remedial measures for the Niagara Street and Pennsylvania Avenue Site must satisfy Remedial Action Objectives (RAOs). Remedial Action Objectives are site specific statements that convey the goals for minimizing or eliminating substantial risks to public health and the environment. Appropriate RAOs for the 1755 Dale Road Site are:

- Removal of PCB -impacted soil/fill within the Site to levels protective of human health for the intended future use of the Site (industrial SCOs)
- Mitigate and minimize loadings to stormwater from residual PCB-impacted soil/fill.

As discussed in Section 5.0, Part 375 Restricted Industrial SCOs were employed as soil cleanup goals to provide a measure of performance against these RAOs. The SCOs are soil concentration limits protective of human health and groundwater quality. Achievement of the SCOs was confirmed through verification sampling.

Because the IRM achieved removal of soil/fill within the limits of the Site to below Part 375 SCOs, the IRM successfully achieved the above-described RAOs.

In addition to achieving RAOs, NYSDEC's Brownfield Cleanup Program calls for remedy evaluation in accordance with DER-10 Technical Guidance for Site Investigation and Remediation. Specifically, the guidance states "When proposing an appropriate remedy, the person responsible for conducting the investigation and/or remediation should identify and develop a remedial action that is based on the following criteria..:"

- **Overall Protection of Public Health and the Environment.** This criterion is an evaluation of the remedy's ability to protect public health and the environment, assessing how risks posed through each existing or potential pathway of exposure are eliminated, reduced, or controlled through removal, treatment, engineering controls, or institutional controls.
- **Compliance with Standards, Criteria, and Guidance (SCGs).** Compliance with SCGs addresses whether a remedy will meet applicable environmental laws, regulations, standards, and guidance.
- **Long-Term Effectiveness and Permanence**. This criterion evaluates the long term effectiveness of the remedy after implementation. If wastes or treated residuals remain on-site after the selected remedy has been implemented, the following items are evaluated: (i) the magnitude of the remaining risks (i.e., will there be any significant threats, exposure pathways, or risks to the community and environment from the remaining wastes or treated residuals), (ii) the adequacy of the engineering and institutional controls intended to limit the risk, (iii) the reliability of these controls, and (iv) the ability of the remedy to continue to meet RAOs in the future.
- **Reduction of Toxicity, Mobility or Volume with Treatment.** This criterion evaluates the remedy's ability to reduce the toxicity, mobility, or volume of Site contamination.

Preference is given to remedies that permanently and significantly reduce the toxicity, mobility, or volume of the wastes at the Site.

- **Short-Term Effectiveness**. Short-term effectiveness is an evaluation of the potential short-term adverse impacts and risks of the remedy upon the community, the workers, and the environment during construction and/or implementation. This includes a discussion of how the identified adverse impacts and health risks to the community or workers at the Site will be controlled, and the effectiveness of the controls. This criterion also includes a discussion of engineering controls that will be used to mitigate short term impacts (i.e., dust control measures), and an estimate of the length of time needed to achieve the remedial objectives.
- **Implementability.** The implementability criterion evaluates the technical and administrative feasibility of implementing the remedy. Technical feasibility includes the difficulties associated with the construction and the ability to monitor the effectiveness of the remedy. For administrative feasibility, the availability of the necessary personnel and material is evaluated along with potential difficulties in obtaining specific operating approvals, access for construction, etc.
- **Cost.** Capital, operation, maintenance, and monitoring costs are estimated for the remedy and presented on a present worth basis.
- **Community Acceptance.** This criterion evaluates the public's comments, concerns, and overall perception of the remedy.

8.2 Future Land Use Evaluation

In developing and screening remedial alternatives, NYSDEC's Part 375 regulations require that the reasonableness of the anticipated future land be factored into the evaluation. The regulations identify 16 criteria that must be considered. These criteria were reviewed for the 1755 Dale Rd BCP Site and the evaluation supports industrial redevelopment as the reasonably anticipated future use of the Site, consistent with current Town of Cheektowaga zoning ordinances, surrounding land use, historical use, distance from current residential land use, flood plains or cultural resources, absence of significant natural resources, wetlands or other State or Federal land use designations. Accordingly, remedial alternatives to clean up the Site to restricted industrial end use are identified and evaluated herein.

In addition to the evaluation of alternatives to remediate to the likely end use of the Site, NYSDEC regulation and policy calls for evaluation of less restrictive end-use scenarios. These include an unrestricted use scenario (considered under 6NYCRR Part 375-2.8 to be representative of cleanup to pre-disposal conditions), and a scenario less restrictive than the reasonably anticipated future use (which would be restricted commercial use). Per NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation, evaluation of a "no action" alternative is also required to provide a baseline for comparison against other alternatives.

Since an IRM has already been completed for the Site, the alternatives discussed in greater detail in Section 8.3 include:

- No Further Action (IRM only);
- IRM and Implementation of a Site Management Plan;

- Restricted Commercial Use Cleanup and Implementation of a SMP; and,
- Unrestricted Use (pre-disposal condition)

8.3 Alternatives Evaluation

8.3.1 No Further Action

Under this alternative, the Site would remain in its current state, post-IRM with no additional controls in-place.

Overall Protection of Public Health and the Environment – The Site as it exists is not protective of human health and the environment, due to the absence of institutional controls to prevent less restrictive forms of future site use (e.g., unrestricted). Accordingly, no further action is not protective of public health and does not satisfy the RAOs.

Compliance with SCGs – Under the current and reasonably anticipated future use scenario, the concentrations of constituents detected in the soil/fill and groundwater comply with applicable SCOs and GWQS.

Long-Term Effectiveness and Permanence – The no further action alternative involves no additional equipment, institutional controls or facilities subject to maintenance, but provides no long-term effectiveness toward achieving the RAOs.

Reduction of Toxicity, Mobility, or Volume with Treatment – The interim remedial measures completed at the Site have reduced the toxicity, mobility and volume of prior constituents of concern. With the exception of low-level residual PCBs in surficial soil/fill, further reduction in toxicity, mobility, or volume of PCBs in the soil/fill or groundwater is not necessary based on the RI findings.

Short-Term Effectiveness – There would be no short-term adverse impacts and risks to the community, workers, or the environment attributable to implementation of the no further action alternative.

Implementability – No technical or action-specific administrative implementability issues are associated with the No Further Action alternative.

Cost – The capital cost of the completed IRM was approximately $470,500. There would be no capital or long-term operation, maintenance, or monitoring costs associated with the no further action alternative.

Community Acceptance – The RI/IRM Work Plan was made available for comment from September 23, 2009 through October 22, 2009. No comments were received opposing the proposed work plan.

8.3.2 IRM and Implementation of a Site Management Plan

The IRM achieved removal of the PCB-impacted soil/fill on-site to below Restricted Industrial SCOs, which is expected to be protective of anticipated on-Site construction and long-term industrial worker occupants and substantially eliminate the off-site stormwater exposure pathway. The "Implementation of a Site Management Plan" alternative is defined as performing no additional cleanup activities at the Site beyond that which was already performed as an IRM (refer to Section 5.0), with implementation of a Site Management Plan (SMP). The SMP will include:

- **An Institutional Controls Plan.** Institutional controls at the site will include groundwater use restrictions and use restrictions of the Site to restricted use (i.e. industrial purposes).
- **A Soil/Fill Management Plan** to assure that future intrusive activities and soil/fill handling at the Site are completed in a safe and environmentally responsible manner.
- **A Site Monitoring Plan** that includes: provisions for a limited stormwater monitoring plan; and, a Site-wide Inspection program to assure that the Institutional controls have not been altered and remain effective.

Overall Protection of Public Health and the Environment – Since the IRM achieved removal of impacted soil/fill to well below industrial SCOs, this alternative is fully protective of human health and the environment, and successfully achieves all RAOs for the Site. The Site Management Plan will include a stormwater monitoring plan to monitor residual PCBs in stormwater, a soil/fill management plan to address any impacted soil/fill encountered during post-development maintenance activities; and a Site-wide Inspection program to assure that the Institutional controls placed on the Site have not been altered and remain effective. Furthermore, although not technically required under the approved IRM Work Plan, Niagara Transformer Corp committed to achieving the lowest reasonable reduction in soil/fill PCB concentrations (below the Restricted Industrial SCO for PCBs) through extensive additional soil/fill excavation and off-site disposal. This approach resulted in the removal of nearly two times more soil/fill by weight than originally proposed in the IRM Work Plan. Final verification testing confirmed that the maximum residual PCB concentration detected in any one excavated grid was 4.8 ppm (Grid 3 Floor) and the average residual concentration of the floor verification samples from the excavated grids is 1.6 ppm and the sidewall samples is 1.5 ppm. These results demonstrate that the IRM cleanup was highly successful in meeting the Restricted Industrial SCO for PCBs of 25 ppm and practically achieved the Restricted Commercial SCO for PCBs of 1 ppm (on average) across all remediated areas of the Site.

Compliance with SCGs – The IRM was performed in accordance with applicable, relevant, and appropriate standards, guidance, and criteria. The IRM achieved removal of impacted soil/fill to below industrial SCOs, this alternative is fully protective of human health and the environment, and successfully achieves all RAOs for the Site. The Site Management Plan will include a stormwater monitoring plan to monitor residual PCBs in stormwater, a soil/fill management plan to address any impacted soil/fill encountered during post-development maintenance activities; and a Site-wide Inspection program to assure that the Institutional controls placed on the Site have not been altered and remain effective.

Long-Term Effectiveness and Permanence – The IRM achieved removal of PCB-impacted soil/fill in all areas of the Site where surficial/shallow soil/fill impacts were known to exceed Restricted Industrial SCO for PCBs. The Site Management Plan will include a stormwater monitoring plan to monitor residual PCBs in stormwater, a soil/fill management plan to address any impacted soil/fill encountered during post-development maintenance activities; and a Site-wide Inspection program to assure that the Institutional controls placed on the Site have not been altered and remain effective. As such, this alternative is expected to provide long-term effectiveness and permanence.

Reduction of Toxicity, Mobility, or Volume with Treatment – Through removal of impacted soil/fill exceeding Restricted Industrial SCOs, the IRM permanently and significantly reduced the toxicity, mobility, and volume of Site contamination. As noted above, the IRM was nearly successful in achieving the more conservative cleanup criteria for Restricted Commercial SCOs. The Site Management Plan will include a stormwater monitoring plan to monitor residual PCBs in stormwater, a soil/fill management plan to address any impacted soil/fill encountered during post-development maintenance activities; and a Site-wide Inspection program to assure that the Institutional controls placed on the Site have not been altered and remain effective. Accordingly, this alternative satisfies this criterion.

Short-Term Effectiveness – The short-term adverse impacts and risks to the community, workers, and environment during implementation of the IRM were effectively controlled. During soil/fill excavation and loading activities, continuous dust and VOC monitoring were performed to assure conformance with NYSDOH-approved community air monitoring action levels. The potential for chemical exposures and physical injuries were reduced through safe work practices; proper personal protection equipment; environmental monitoring; establishment of work zones and Site control; and appropriate decontamination procedures. The IRM achieved the RAOs for the Site in approximately two months.

Implementability – No technical or action-specific administrative implementability issues are associated with implementation of the IRM or the SMP. An Environmental Easement will be filed with Erie County documenting the controls placed on the Site.

Cost –The capital cost of the IRM was approximately $470,500. Stormwater monitoring and annual certification is estimated at approximately $4,800 per year. Based on an assumed 30 years of stormwater monitoring and annual certifications, the net present value of this alternative is approximately $543,000 as shown on Table 8-1. Table 8-4 is a summary of costs of each of the alternatives.

Community Acceptance – The RI/AAR/IRM Work Plan was made available for comment from November 20, 2008 through December 19, 2008. No comments opposing the work were received.

8.3.3 Restricted Commercial Use Alternative and Implementation of a Site Management Plan

A Restricted Commercial Use alternative would necessitate remediation of all soil/fill where PCB concentrations exceed the Restricted Commercial SCO for PCBs per 6NYCRR Part 375 Table 6.8(b) of 1 ppm. For this scenario, excavation and off-site disposal of impacted soil/fill combined or use of engineering controls, such as clean soil cover systems are generally regarded as the most applicable remedial measures. The Restricted Commercial Use alternative assumes that based on the 2007 Soil Investigation results that approximately 80 percent of the northern half of the Site's shallow soil/fill would be excavated and disposed at an off-site commercial solid waste landfill or covered with 1 foot of clean soils to meet the Restricted Commercial SCO. Additionally, selected grids in the southern half of the Site that were not required to be addressed under the IRM would also require excavation or cover to meet the SCO requirements. The estimated total volume of impacted soil/fill that would be removed under this scenario from these areas assuming an average excavation depth of 2 feet (based on final IRM excavation survey) is approximately 3,500 cubic yards. Implementation of a cover system as an alternative remedial strategy was considered but not deemed practical for the long term redevelopment of the site which is planned as a multi-phased expansion program with intrusive building requirements. The phased Site redevelopment approach would require the disturbance or removal of portions of the cover soil system in the areas of the Site planned for future building additions and associated infrastructure improvements and require the management and handling of sub-grade impacted soils that remain in place. Repairs to the disturbed cover areas in accordance with Site Management Plan (SMP) engineering controls requirements and the annual maintenance and certification of an engineered cover system under the planned Site redevelopment scenario, while feasible, would present a challenge to NTC for long term compliance and liability under the provisions of a SMP, based on the operational focus on manufacturing and associated business activities by NTC at the Site.

Overall Protection of Public Health and the Environment – The Restricted Commercial Use alternative would achieve the corresponding Part 375 SCOs, which are designed to be protective of human health under a commercial reuse scenario.

Compliance with SCGs – Similar to the IRM soil/fill removal activities, the Restricted Commercial Use alternative would need to be performed in accordance with applicable, relevant, and appropriate standards, guidance, and criteria. The Site Management Plan will include a stormwater monitoring plan to monitor residual PCBs in stormwater, a soil/fill management plan to address any impacted soil/fill encountered during post-development maintenance activities; and a Site-wide Inspection program to assure that the Institutional controls placed on the Site have not been altered and remain effective.

Long-Term Effectiveness and Permanence – The Restricted Commercial Use alternative would achieve removal of residual impacted soil/fill; therefore, soil/fill exceeding the Restricted Commercial SCOs would be removed from the Site. The Site Management Plan will include a stormwater monitoring

plan to monitor residual PCBs in stormwater, a soil/fill management plan to address any impacted soil/fill encountered during post-development maintenance activities; and a Site-wide Inspection program to assure that the Institutional controls placed on the Site have not been altered and remain effective. As such, the Restricted Commercial Use alternative would provide long-term effectiveness and permanence.

Reduction of Toxicity, Mobility, or Volume with Treatment – Through removal all impacted soil/fill, the Restricted Commercial Use alternative would permanently and significantly reduce the toxicity, mobility, and volume of Site contamination. The Site Management Plan will include a stormwater monitoring plan to monitor residual PCBs in stormwater, a soil/fill management plan to address any impacted soil/fill encountered during post-development maintenance activities; and a Site-wide Inspection program to assure that the Institutional controls placed on the Site have not been altered and remain effective. Accordingly, this alternative satisfies this criterion.

Short-Term Effectiveness – The short-term adverse impacts and risks to the community, workers, and environment during implementation of the Restricted Commercial Use alternative are not considered significant and are controllable, but would increase the duration of time community, workers, and the environment is exposed to fugitive dust emissions at the site or stormwater migrating off the site during remediation activities.

Implementability – No technical implementability issues would be encountered in construction of the Restricted Commercial Use alternative. Administrative implementability issues may include the need for rezoning of the area, since commercial zoning uses are not consistent with current General Manufacturing zoning designation or the reasonably anticipated future use of the Site.

Cost – The capital cost of the IRM was approximately $470,500. The capital cost of implementing a Restricted Commercial Use alternative (post-IRM) is estimated to be $405,300. Stormwater monitoring and annual certification is estimated at approximately $4,800 per year. Based on an assumed 30 years of stormwater monitoring and annual certifications, the net present value of this alternative is estimated at $952,500 (see Table 8-2). Table 8-4 is a summary of costs of each of the alternatives.

Community Acceptance – Community acceptance will be evaluated based on comments to be received from the public in response to Fact Sheets and other planned Citizen Participation activities.

8.3.4 Unrestricted Use Alternative

The Unrestricted Use alternative would necessitate remediation of all soil/fill where PCB concentrations exceed the Unrestricted SCO for PCBs per 6NYCRR Part 375 Table 6.8(a) of 0.1 ppm. For this scenario, excavation and off-site disposal of impacted soil/fill with concentrations of PCBs in excess of 0.1 ppm would be regarded as the most applicable remedial measure. The Unrestricted Use alternative assumes

that based on the 2007 Soil Investigation results, BCP RI and IRM verification sample results that approximately 90 percent of the of the Site's remaining shallow soil/fill would be required to be excavated down to native soil and disposed at an off-site commercial solid waste landfill to meet the Unrestricted SCO. The estimated total volume of impacted soil/fill that would be removed under this scenario from these areas based on a detailed geotechnical survey to delineate the fill thickness conducted across the site (subsequent to completion of the IRM) is approximately 10,500 cubic yards.

Overall Protection of Public Health and the Environment – The Unrestricted Use alternative would achieve the corresponding Part 375 SCOs, which are designed to be protective of human health under any unrestricted reuse scenario.

Compliance with SCGs – Similar to the IRM soil/fill removal activities, the Unrestricted Use alternative would need to be performed in accordance with applicable, relevant, and appropriate standards, guidance, and criteria.

Long-Term Effectiveness and Permanence – The Unrestricted Use alternative would achieve removal of residual impacted soil/fill; therefore, soil/fill exceeding the Unrestricted Use SCOs would be removed from the Site. As such, the Unrestricted Use alternative would provide long-term effectiveness and permanence.

Reduction of Toxicity, Mobility, or Volume with Treatment – Through removal all impacted soil/fill below the 0.1 ppm SCO threshold, the Unrestricted Use alternative would permanently and significantly reduce the toxicity, mobility, and volume of Site contamination. Accordingly, this alternative satisfies this criterion.

Short-Term Effectiveness – The short-term adverse impacts and risks to the community, workers, and environment during implementation of the Unrestricted Use alternative are not considered significant and are controllable, but would increase the duration of time community, workers, and the environment is exposed to fugitive dust emissions at the site or stormwater migrating off the site during remediation activities.

Implementability – No technical implementability issues would be encountered in implementation of the Restricted Commercial Use alternative. Administrative implementability issues may include the need for rezoning of the area, since residential or commercial zoning uses are not consistent with current General Manufacturing zoning designation by the Town of Cheektowaga or the reasonably anticipated future use of the Site.

Cost – The capital cost of the IRM was approximately $470,500. The capital cost of implementing an Unrestricted Use alternative (post-IRM) is estimated to be $1,713,144. Therefore the cost to implement

this alternative is estimated at $2,183,644 (see Table 8-3). Table 8-4 is a summary of costs of each of the alternatives.

Community Acceptance – Community acceptance will be evaluated based on comments to be received from the public in response to Fact Sheets and other planned Citizen Participation activities.

8.4 Recommended Remedial Measure

Based on the Alternatives Analysis evaluation, the completed IRM and implementation of the proposed Site Management Plan alternative fully satisfies the remedial action objectives and is fully protective of human health and the environment. Accordingly, the implementation of a Site Management Plan encompassing institutional controls mandated by the Site's recorded Environmental Easement and periodic stormwater monitoring is the recommended final remedial approach for the 1755 Dale Road BCP Site.

9.0 RI/AA/IRM SUMMARY AND CONCLUSIONS

Based on the data and analyses presented in the preceding sections, we offer the following summary and conclusions:

- An IRM was implemented at the Site subsequent to the completion of RI activities. The IRM included: installation of a temporary stone access road to minimize Site soil disturbance; implementation of extensive erosion and sediment control measures around the planned excavation areas; excavation of approximately 2,075-tons of hazardous PCB-impacted soil/fill and 1097 tons of non-hazardous PCB-impacted soil/fill followed by off-site transportation and disposal at a permitted hazardous waste landfill. The IRM also included the removal, characterization and disposal at a permitted landfill of approximately 6 drums of roofing tar material located on the surface of the Site. On-site post-excavation soil sample results were below 6NYCRR Part 375 Industrial SCO for PCBs.
- Based on the soil data collected during the RI, concentrations of VOCs, metals, pesticides, and PCBs were below Part 375 Industrial SCOs. One SVOC (benzo(a)pyrene) was detected at concentrations slightly above their respective 6NYCRR Part 375 Restricted Industrial SCO at sample locations B-2 (0-4 ft) and B-2 (0-4 ft), respectively. Based on the lack of elevated PID readings, as well as absence of any visual or olfactory evidence of contamination, the elevated SVOC appears to be attributable to background concentrations of PAHs, which is common in historic fill and industrialized settings.
- Based on the groundwater data collected during the RI, the three sampled monitoring wells did not contain concentrations of VOCs, SVOCs, metals, pesticides, and PCBs above applicable GWQS. Metals detected above GWQS are limited to naturally occurring minerals.
- Based on the Alternatives Analysis evaluation, the IRM satisfies the remedial action objectives and is protective of human health and the environment. Accordingly, Implementation of a Site Management Plan is the recommended final remedial approach for the 1755 Dale road BCP Site.

10.0 REFERENCES

1. Remedial Investigation & Interim Remedial Measures Work Plan, *Niagara Transformer Corporation – 1755 Dale Road Cheektowaga, New York,* prepared for *New York State Department of Environmental Conservation*, August 2009.

2. Golder Associates Inc., *Report on Phase 1 Environmental Site Assessment Vacant Parcel, 1755 Dale Road, Cheektowaga*, New York, August 2009.

3. Ecology and Environment, Inc., *Niagara Transformer Corporation Site, Cheektowaga, New York Remediation Summary Report*, prepared for *New York State Department of Environmental Conservation*, December 1997.

4. Ecology and Environment, Inc., *Niagara Transformer Corporation NYSDEC Site No. 9-15-146, Town of Cheektowaga, Erie, New York; Interim Remedial Measure Summary Report*, prepared for *New York State Department of Environmental Conservation*, January 2005.

TABLES

TABLE 4-1A
RI/AA/IRM REPORT
SOIL/FILL ANALYTICAL RESULTS
COMPARISON TO NYSDEC PART375 SOIL CLEANUP OBJECTIVES

1755 DALE RD. BCP SITE # C915234 - NIAGARA TRANSFORMER CORP.
CHEEKTOWAGA, NY

Lab ID	Restricted Industrial SCOs Table 375-6.8(b) (PPM)	Restricted Commercial SCOs Table 375-6.8(b) (PPM)	RSI0643-01 - Solid		RSI0741-03 - Solid		RSI0741-09 - Solid		RSI0741-06 - Solid		RSI0695-07 - Solid		RSI0695-10 - Solid		RSI0741-15 - Solid		RSI0741-12 - Solid		RSI0643-02 - Solid		RSI0643-03 - Solid	
Sample ID			B-1 (0-4)		B-2		B-3		B-4		B-5		B-6		B-7		B-8		B-9		B-10	
Sample Date			9/17/09		9/21/09		9/21/2009		9/21/2009		9/18/2009		9/18/2009		9/21/2009		9/21/2009		9/17/2009		9/17/2009	
Sample Depth			0-4 ft		0-4 ft		0-4 ft		0-4 ft		0-4 ft		0-4 ft		0-4 ft		0-4 ft		0-4 ft		0-4 ft	
Units			PPM		PPM		PPM		PPM		PPM		PPM		PPM		PPM		PPM		PPM	
Volatile Organics (8260B)																						
Acetone	1000	500			0.017	J													0.0054	J		
Methylene Chloride	1000	500			0.012		0.018		0.013		0.026		0.019		0.015		0.028					
Xylenes, total	1000	500									0.0013	J										
Semivolatile Organics (GC/MS)																						
2-Methylnaphthalene	NA	NA							0.0075	J			0.11	D10, J	0.11	D10, J	0.17	D10, J				
Acenaphthene	1000	500				D10									0.39	D10, J						
Acenaphthylene	1000	500				D10											0.1	D10, J				
Anthracene	1000	500				D10									1.1	D10	0.087	D10, J	0.12	D10, J		
Benz[a]anthracene	11	5.6			0.77	D10, J	0.1	D10, J	0.092	J	0.68	D12, J	0.39	D10, J	2.1	D10	0.57	D10, J	0.53	D10, J	0.34	D12,J
Benzo[a]pyrene	1.1	1			1.4	D10, L, J	0.087	D10, L, J	0.11	L, J	0.79	D12, J	0.41	D10, J	1.9	D10, J, L1	0.68	D10, L, J	0.62	D10, J	0.29	D12,J
Benzo[b]fluoranthene	11	5.6			1.7	D10, J	0.11	D10, J	0.12	J	0.81	D12, J	0.51	D10, J	2.2	D10	0.89	D10, J	0.8	D10, J	0.4	D12,J
Benzo[g,h,i]perylene	1000	500			0.95	D10, J			0.081	J	0.62	D12, J	0.31	D10, J	1.3	D10	0.62	D10, J	0.51	D10, J		
Benzo[k]fluoranthene	110	56			0.61	D10, J			0.046	J	0.42	D12, J	0.24	D10, J	0.91	D10, J	0.31	D10, J	0.4	D10, J	0.22	D12,J
Bis(2-ethylhexyl) phthalate	NA	NA			1	D10, J			0.32						0.5	D10, J	0.42	D10, J	1.1	D10, J		
Carbazole	NA	NA													0.6	D10, J						
Chrysene	110	56			1	D10, J	0.089	D10, J	0.097	J	0.63	D12, J	0.43	D10, J	2	D10	0.67	D10, J	0.62	D10, J	0.25	D12, J
Dibenz[a,h]anthracene	1.1	0.56			0.25	D10, J			0.022	J					0.36	D10, J	0.15	D10, J	0.15	D10, J		
Dibenzofuran	NA	NA													0.33	D10, J	0.055	D10, J				
Fluoranthene	1000	500			0.83	D10, J	0.16	D10, J	0.14	J	1.2	D12, J	0.69	D10, J	5	D10	1.2	D10	1.1	D10, J	0.41	D12, J
Fluorene	1000	500													0.51	D10, J						
Indeno[1,2,3-cd]pyrene	11	5.6			0.79	D10, J			0.069	J	0.53	D12, J	0.24	D10, J	1.2	D10	0.49	D10, J	0.38	D10, J	0.22	D12, J
Naphthalene	1000	500															0.12	D10, J				
Phenanthrene	1000	500			0.22	D10, J	0.12	D10, J	0.058	J	0.66	D12, J	0.42	D10, J	4.7	D10	0.63	D10, J	0.72	D10, J	0.31	D12, J
Pyrene	1000	500			0.74	D10, J	0.14	D10, J	0.13	J	0.98	D12, J	0.59	D10, J	3.9	D10	0.96	D10	0.93	D10, J	0.37	D12, J
Organochlorine Pesticides (8081A)					[2C]		[2C]		[2C]		[2C]		[2C]		[2C]		[2C]					
4,4'-DDD	180	92															0.0028	QFL, D04, J				
4,4'-DDT	94	47									1.5	QFL, D04										
delta-BHC	1000	500							0.00085	QFL, J									0.0015	QFL, J	0.0016	QFL, J
Dieldrin	2.8	1.4	0.014	QFL					0.0012	QFL, J	0.34	QFL, D04, J	0.023	QFL, D04			0.0032	QFL, D04, J	0.0086	QFL, J	0.0025	QFL, J
Endrin	410	89	0.0047	QFL			0.021	QFL, D04, J	0.0011	QFL, J	0.26	QFL, D04, J	0.016	QFL, D04, J	0.21	QFL, D04, J	0.0034	QFL, D04, J			0.0027	QFL, J
gamma-Chlordane	NA	NA	0.0021	QFL, J															0.0023	QFL, J		
Heptachlor	29	15															0.0016	QFL, D04, J				
Heptachlor epoxide	NA	NA																	0.0018	QFL, J		
Total Metals (SW 846 Series)																						
Aluminum	NA	NA	5930		13100		11200		6160		14800		7670		7680		5950		4960		8570	
Arsenic	16	16	6.2	J	5.4	J	6	J	2.4	J	5.9	J	5.4	J	6.8	J	9.7	J	8.2	J	10.5	J
Barium	10000	400	50.6	J	118	J	95	J	39.8	J	118	J	108	J	107	J	102	J	108	J	273	J
Beryllium	2700	590	0.359		0.643		0.561		0.293		0.657		0.404		0.449		0.369		0.404		0.501	
Cadmium	60	9.3	0.373				0.511		0.243		0.285		0.462		1.02		1.63		1.05		1.27	
Calcium	NA	NA	83800	D08, J	73100	D08, J	33900	J	41500	J	4490	J	10900	J	47400	J	4630	J	113000	D08, J	27000	J
Chromium	6800	1500	8.26	J	20.9	J	13.9	J	9.88	J	18.6	J	11	J	17.1	J	18.6	J	26.1	J	21	J
Cobalt	NA	NA	3.83		8.45		5.25		4.7		10.6		4.89		6.4		7.76		4.72		9.05	
Copper	10000	270	18.3	J	19.8	J	33.4	J	11.1	J	27.1	J	33.2	J	58.1	J	124	J	60.1	J	89.1	J
Iron	NA	NA	13400	B3, B1, B, J	22700	B1, B3, B, J	17400	B1, B3, B, J	11700	B1, B3, B, J	24500	B1, B3, B, J	15900	B1, B3, B, J	33500	B1, B3, B, J	66600	D08, B, J	25300	B1, B3, B, J	54200	B1, B3, B, J
Lead	3900	1000	291	J	11.7	J	208	J	13.8	J	26.2	J	104	J	206	J	322	J	192	J	1840	J
Magnesium	NA	NA	10800	J	12700	J	10000	J	3390	J	5040	J	5580	J	6790	J	2280	J	5150	J	6600	J
Manganese	10000	10000	385	B1, B, J	312	B1, B, J	1450	B1, B, J	337	B1, B, J	614	B1, B, J	473	B1, B, J	514	B1, B, J	521	B1, B, J	1080	B1, B, J	725	B1, B, J
Mercury	5.7	2.8	0.149		0.0264		0.259				0.168		0.167		0.393		1.02	D08	0.976	D08	0.238	
Nickel	10000	310	8.07	J	23.5	J	12.3	J	10.3	J	22.2	J	11.7	J	22.9	J	25	J	17.1	J	26.2	J
Potassium	NA	NA	993		1760		1420		1170		1900		1130		1060		783		674		1300	
Sodium	NA	NA	363				184															
Vanadium	NA	NA	13.2	J	23.7	J	22	J	14.6	J	28.1	J	17	J	17.4	J	16	J	16.3	J	21.3	J
Zinc	10000	10000	154	J	59.2	J	147	J	62.8	J	86.9	J	113	J	348	J	635	J	475	J	894	J
General Chemistry Parameters																						
Cyanide	10000	27									1	J									2	J
Percent Solids	NA	NA	88%		90%		86%		88%		85%		91%		90%		91%		93%		87%	

TABLE 4-1A
RI/AA/IRM REPORT
SOIL/FILL ANALYTICAL RESULTS
COMPARISON TO NYSDEC PART375 SOIL CLEANUP OBJECTIVES

1755 DALE RD. BCP SITE # C915234 - NIAGARA TRANSFORMER CORP.
CHEEKTOWAGA, NY

Data Qualifiers:

B = Analyte was detected in associated method blank.
B1 = Analyte was detected in associated method blank. Analyte concentration in the sample is greater than 10x the concentration found in the method blank.
B3 = Target analyte detected in calibration blank at or above the method reporting limit.
D04 = Dilution required due to high levels of non-target compounds.
D08 = Dilution required due to high concentration of target analyte(s)
D10 = Dilution required due to sample color.
D12 = Dilution required due to sample viscosity.
J = Analyte detected at a level less than the reporting limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
L = Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
L1 = Laboratory Control Sample and/or Laboratory Control Sample Duplicate recovery was above the acceptance limits.
M8 = The MS and/or MSD were below the acceptance limits.
N1 = See Case Narrative.
QFL = Florisil clean-up (EPA 3620) performed on extract.
[2C] = Results taken from second column.

Footnotes:

All values are in Parts per Million (PPM).
blank = Not detected above the practical quantitation limits (PQL), lower limit of quantitation (LLQ), or reporting limit (RL).
0.34 = Sample concentration exceeds the respective Soil Cleanup Objectives (SCO)
NA = Not Applicable
NS = Not Specified.
Sample B-7 which exceeded the SCO for Benzo[a]pyrenewas collected from a depth of 0-4 ft and was located within the IRM excavation area which was excavated to a depth of approximately 1.5

Table by: AML
Checked by: DML
Reviewed by: PTM

TABLE 4-1B
RI/AA/IRM REPORT
SOIL ANALYTICAL RESULTS (PCBS ONLY)
COMPARISON TO NYSDEC PART 375 SOIL CLEANUP OBJECTIVES

1755 DALE RD. BCP SITE # C915234 - NIAGARA TRANSFORMER CORP
CHEEKTOWAGA, NY

Lab ID	Restricted Industrial SCOs Table 375-6.8(b) (PPM)	Restricted Commercial SCOs Table 375-6.8(b) (PPM)	RSI0643-01 - Solid	RSI0741- 01 - Solid	RSI0741-02 - Solid	RSI0741-07 - Solid	RSI0741-08 - Solid	RSI0741-04 - Solid	RSI0741-05 - Solid	RSI0695-05 - Solid	RSI0695-06 - Solid	RSI0695-08 - Solid	RSI0695-09 - Solid
Sample ID			**B-1 (0-4)**	**B-2 (0-2)**	**B-2 (2-4)**	**B-3 (0-2)**	**B-3 (2-4)**	**B-4 (0-2)**	**B-4 (2-4)**	**B-5 (0-2)**	**B-5 (2-4)**	**B-6 (0-2)**	**B-6 (2-4)**
Sample Date			**9/17/09**	**9/21/09**	**9/21/09**	**9/21/2009**	**9/21/2009**	**9/21/2009**	**9/21/2009**	**9/18/2009**	**9/18/2009**	**9/18/2009**	**9/18/2009**
Sample Depth			**0-4 ft**	**0-2 ft**	**2-4 ft**	**0-2 ft**	**2-4 ft**	**0-2 ft**	**2-4 ft**	**0-2 ft**	**2-4- ft**	**0-2 ft**	**2-4 ft**
Units			**PPM**	**PPM**	**PPM**	**PPM**	**PPM**	**PPM**	**PPM**	**PPM**	**PPM**	**PPM**	**PPM**
Polychlorinated Biphenyls (8082)				**[2C]**	**[2C]**	**[2C]**	**[2C]**	**[2C]**	**[2C]**	**[2C]**	**[2C]**	**[2C]**	**[2C]**
Aroclor 1016	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1221	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	NA	NA	0.49 QSU, D08, J	0.14	ND	1.7 D08	0.029	0.084	ND	10 D08	3.5 D08	2.2 D08	0.052
TOTAL PCBs	**25**	**1**	0.49	0.14	0	1.7	0.029	0.084	0	10	3.5	2.2	0.052

Lab ID	Restricted Industrial SCOs Table 375-6.8(b) (PPM)	Restricted Commercial SCOs Table 375-6.8(b) (PPM)	RSI0741-13 - Solid	RSI0741-14 - Solid	RSI0741-10 - Solid	RSI0741-11 - Solid	RSI0643-02 - Solid	RSI0643-03 - Solid	RSI0643-06 - Solid	RSI0695-01 - Solid	RSI0695-02 - Solid	RSI0695-03 - Solid	RSI0695-04 - Solid
Sample ID			**B-7 (0-2)**	**B-7 (2-4)**	**B-8 (0-2)**	**B-8 (2-4)**	**B-9**	**B-10**	**B-10 (0-2)**	**SS-1**	**SS-2**	**SS-3**	**SS-4**
Sample Date			**9/21/2009**	**9/21/2009**	**9/21/2009**	**9/21/2009**	**9/17/2009**	**9/17/2009**	**9/17/2009**	**9/18/2009**	**9/18/2009**	**9/18/2009**	**9/18/2009**
Sample Depth			**0-2 ft**	**2-4 ft**	**0-2 ft**	**2-4 ft**	**0-4 ft**	**0-4 ft**	**0-2 ft**	**0-6 in**	**0-6 in**	**0-6 in**	**0-6 in**
Units			**PPM**	**PPM**	**PPM**	**PPM**	**PPM**	**PPM**	**PPM**	**PPM**	**PPM**	**PPM**	**PPM**
Polychlorinated Biphenyls (8082)			**[2C]**	**[2C]**	**[2C]**	**[2C]**				**[2C]**	**[2C]**	**[2C]**	**[2C]**
Aroclor 1016	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1221	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	NA	NA	22 D08	0.22	0.25 D08	ND	0.33 J, QSU	0.075 J, QSU	0.18 J, QSU	0.15	0.25	4.5 D08	0.69 D08
TOTAL PCBs	**25**	**1**	22	0.22	0.25	0	0.33	0.075	0.18	0.15	0.25	4.5	0.69

Data Qualifiers:

D08 = Dilution required due to high concentration of target analyte(s)
QSU = Sulfur (EPA 3660) clean-up performed on extract.
[2C] = Results taken from second column.

Footnotes:

All values are in Parts per Million (PPM).
blank = Not detected above the practical quantitation limits (PQL) or lower limit of quantitation (LLQ).
NA = Not applicable
ND = Not detected above the practical quantitation limits (PQL), lower limit of quantitation (LLQ), or reporting limit (RL).

Table by: AML
Checked by: DML
Reviewed by: PTM

GOLDER ASSOCIATES

TABLE 4-2
RI/AA/IRM REPORT
JANUARY 2010 SUPPLEMENTAL RI SAMPLE RESULTS
SOIL, SEDIMENT, AND SURFACE WATER

1755 DALE RD. BCP SITE #C915234 - NIAGARA TRANSFORMER CORP.
CHEEKTOWAGA, NY

Lab ID	Restricted Industrial SCOs Table 375-6.8(b) (PPM)	Restricted Commercial SCOs Table 375-6.8(b) (PPM)	RTA0293-01 - Solid	RTA0293-02 - Solid	RTA0293-03 - Solid	RTA0293-04 - Solid	RTA0293-05 - Solid	RTA0293-06 - Water	RTA0293-08 - Water	RTA0293-10 - Water	RTA0293-07 - Solid	RTA0293-09 - Solid
Sample ID			SS-5	SS-6	SS-7	SS-8	SS-9	SW-1	SW-2	SW-3	SED-1	SED-2
Sample Date			1/8/10	1/8/10	1/8/10	1/8/10	1/8/10	1/8/10	1/8/10	1/8/10	1/8/10	1/8/10
Sample Depth			0-6 in	0-6 in	0-6 in	0-6 in	0-6 in	-	-	-	-	-
Units			PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Polychlorinated Biphenyls (8082)			[2C]	[2C]	[2C]	[2C]	[2C]	[2C]	[2C]	[2C]	[2C]	[2C]
Aroclor 1016	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1221	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	NA	NA	6 D08	4.1 D08	49 D08	1.2 D08	1.3 D08	ND	ND	ND	0.24	0.38
TOTAL PCBs	25	1	6	4.1	49	1.2	1.3	0	0	0	0.24	0.38

Data Qualifiers:

D08 = Dilution required due to high concentration of target analyte(s)
[2C] = Results taken from second column.

Footnotes:

All values are in Parts per Million (PPM).
SS = Surface Sample
SW = Surface Water sample
SED = Sediment sample
ND = Not detected above the practical quantitation limits (PQL), lower limit of quantitation (LLQ), or reporting limit (RL).

Table by: AML
Checked by: JRS
Reviewed by: PTM

TABLE 4-3
RI/AA/IRM REPORT
GROUNDWATER ANALYTICAL RESULTS
COMPARISON TO 6 NYCRR PART 703 WATER QUALITY STANDARDS

1755 DALE RD. BCP SITE # C915234 - NIAGARA TRANSFORMER CORP.
CHEEKTOWAGA, NY

Lab ID	Water Quality Standards Surface Waters and Groundwater (6 NYCRR Part 703) (PPM)		RSJ0665-01		RSJ0665-02		RSJ0665-05		RSJ0665-06	
Sample ID			MW-1		MW-2		DUP		MW-4	
Sample Date			10/9/09		10/9/09		10/9/09		10/9/09	
Units			PPM		PPM		PPM		PPM	
Semivolatile Organics (GC/MS)										
Diethyl phthalate	NA		ND		0.00082	J	ND		ND	
Di-n-butyl phthalate	0.05		0.00051	J	0.00057	J	0.00046	J	0.0004	J
Phenanthrene	NA		ND		0.00088	J	ND		0.00086	J
Organochlorine Pesticides (8081A)			[2C]		[2C]		[2C]		[2C]	
beta-BHC	NA		0.00021	D02, J	ND		ND		ND	
Endrin ketone	0.005		0.00024	D02, J	ND		ND		ND	
Methoxychlor	0.035		ND		0.00026	D02	ND		ND	
Total Metals (SW 846 Series)										
Aluminum	NA		6.61		9.62		5.75		9.04	
Barium	NA		0.12		0.108		0.13		0.099	
Calcium	NA		71		203		67.9		192	
Chromium	0.05		0.0079		0.0148		0.0072		0.0143	
Cobalt	NA		ND		ND		ND		0.0046	
Copper	0.2		ND		0.0179		ND		0.0113	
Iron	0.3		6.27		9.73		5.42		12.6	
Lead	0.025		ND		0.0165		ND		0.0137	
Magnesium	NA		57.7		121		54.8		96.8	
Manganese	0.3		0.113		0.307		0.103		0.527	
Nickel	0.1		ND		ND		ND		0.0107	
Potassium	NA		3.36		7.48		3.28		6.6	
Sodium	20		26.6		52.2		27.2		24.5	
Vanadium	NA		0.0085		0.0139		0.0076		0.0163	
Zinc	NA		0.0162		0.0493		0.0145		0.0825	
General Chemistry Parameters										
Turbidity (NTU)	NA		358	B, J	391	B	137	B, J	467	B

TABLE 4-3
RI/AA/IRM REPORT
GROUNDWATER ANALYTICAL RESULTS
COMPARISON TO 6 NYCRR PART 703 WATER QUALITY STANDARDS

1755 DALE RD. BCP SITE # C915234 - NIAGARA TRANSFORMER CORP.
CHEEKTOWAGA, NY

Data Qualifiers:

B = Analyte was detected in associated method blank.
D02 = Dilution required due to sample matrix effects.
J = Analyte detected at a level less than the reporting limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
[2C] = Results taken from second column.
ND = Not detected above the practical quantitation limits (PQL), lower limit of quantitation (LLQ), or reporting limit (RL).

Footnotes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. All results are in Parts per Million (PPM) unless stated otherwise.
3. All turbidity results are in Nephelometric Turbidity Units (NTU).
4. Monitoring Wells MW-3 and WM-5 were dry. No water samples were taken from these wells.

0.79 = Sample concentration exceeds the respective Water Quality Standards from 6 NYCRR Part 703.
NA = Not applicable

Table by:	AML
Checked by:	DML
Reviewed by:	PTM

TABLE 5-1
RI/AA/IRM REPORT
IRM VERIFICATION SAMPLE RESULTS
COMPARISON TO NYSDEC PART 375 SOIL CLEANUP OBJECTIVES

1755 DALE RD. BCP SITE # C915234 - NIAGARA TRANSFORMER CORP.
CHEEKTOWAGA, NY

Lab ID	Restricted Industrial SCOs Table 375-6.8(b) (PPM)	Restricted Commercial SCOs Table 375-6.8(b) (PPM)	RTB0801-01	RTB0801-02	RTB0938-01	RTB0801-03	RTB0856-02	RTC0498-01	RTC0635-01	RTC1037-01	RTD1659-01	RTB0856-04
Sample ID			Grid 1 Floor	Grid 2 Foor	Grid 2 Floor	Grid 2 West Wall	Grid 3 Pile	Grid 3 Floor	Grid 3 Floor	Grid 3 Floor	Grid 3 Floor	Grid 4 Pile
Sample Date			2/18/10	2/18/10	2/23/10	2/18/10	2/19/2010	3/4/2010	3/8/2010	3/17/2010	4/21/2010	2/19/2010
Units			PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Polychlorinated Biphenyls (8082)												
Aroclor 1016	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1221	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	NA	NA	4.5 D08	1000 D08, Z3	1.1	2.7 D08	42 D08	63 D08	21 D08	24 D08	4.8	1.8 D08
TOTAL PCBs	**25**	**1**	4.5	1000	1.1	2.7	42	63	21	24	4.8	1.8

TABLE 5-1
RI/AA/IRM REPORT
IRM VERIFICATION SAMPLE RESULTS
COMPARISON TO NYSDEC PART 375 SOIL CLEANUP OBJECTIVES

1755 DALE RD. BCP SITE # C915234 - NIAGARA TRANSFORMER CORP.
CHEEKTOWAGA, NY

Lab ID	Restricted Industrial SCOs Table 375-6.8(b) (PPM)	Restricted Commercial SCOs Table 375-6.8(b) (PPM)	RTC0498-02	RTB0856-03	RTC0498-03	RTB0938-02	RTB0756-03	RTB0856-05	RTB0938-03	RTC0498-04	RTB0856-01
Sample ID			Grid 4 Floor	Grid 5 Pile	Grid 5 Floor	Grid 6 Floor	Grid 6 West Wall	Grid 7 Floor	Grid 7 Floor	Grid 7 Floor	Grid 7 Pile
Sample Date			3/4/2010	2/19/2010	3/4/2010	2/23/2010	2/17/2010	2/19/2010	2/23/2010	3/4/2010	2/19/2010
Units			PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Polychlorinated Biphenyls (8082)											
Aroclor 1016	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1221	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	NA	NA	ND	ND	ND	ND	ND	ND	ND	2	ND
Aroclor 1260	NA	NA	4.4 D08	5.5 D08	0.62	0.17 J	1.2	27 D08	44 D08	1	15 D08
TOTAL PCBs	**25**	**1**	4.4	5.5	0.62	0.17	1.2	27	44	3	15

TABLE 5-1
RI/AA/IRM REPORT
IRM VERIFICATION SAMPLE RESULTS
COMPARISON TO NYSDEC PART 375 SOIL CLEANUP OBJECTIVES

1755 DALE RD. BCP SITE # C915234 - NIAGARA TRANSFORMER CORP.
CHEEKTOWAGA, NY

Lab ID	Restricted Industrial SCOs Table 375-6.8(b) (PPM)	Restricted Commercial SCOs Table 375-6.8(b) (PPM)	RTB0756-02	RTC1039-01	RTB0756-01	RTB0693-04	RTB0655-01	RTB0655-02	RTB0693-03	RTB0693-01	RTB0693-02	RTB0801-04
Sample ID			Grid 8 Floor	Grid 8 Floor	Grid 9 Floor	Grid 10 Floor	Grid 11 Floor	Grid 11 West Wall	Grid 12 Floor	Grid 13 Floor	Grid 13 South Wall	Grid 13 South Wall 2
Sample Date			2/17/2010	3/17/2010	2/17/2010	2/16/2010	2/15/2010	2/15/2010	2/16/2010	2/16/2010	2/16/2010	2/18/2010
Units			PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Polychlorinated Biphenyls (8082)												
Aroclor 1016	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1221	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	NA	NA	ND	ND	ND	ND	0.17 J	ND	ND	ND	ND	ND
Aroclor 1254	NA	NA	7.1	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	NA	NA	10	ND	0.2 J	0.068 J	0.77	0.46	0.18 J	0.2 J	34 D08	370 D08, Z3
TOTAL PCBs	**25**	**1**	17.1	ND	0.2	0.068	0.94	0.46	0.18	0.2	34	370

TABLE 5-1
RI/AA/IRM REPORT
IRM VERIFICATION SAMPLE RESULTS
COMPARISON TO NYSDEC PART 375 SOIL CLEANUP OBJECTIVES

1755 DALE RD. BCP SITE # C915234 - NIAGARA TRANSFORMER CORP.
CHEEKTOWAGA, NY

Lab ID	Restricted Industrial SCOs Table 375-6.8(b) (PPM)	Restricted Commercial SCOs Table 375-6.8(b) (PPM)	RTC0498-05	RTC0498-06	RTC0498-07	RTC0787-02	RTC0635-02	RTC0787-03	RTC0787-01
Sample ID			**Grid 13 South Wall**	**Grid 13 West Wall**	**Grid 13 East Wall**	**Grid 13 East Wall**	**Grid 13 North Wall**	**Grid 13 North Wall**	**Grid 13 South Berm (EAST OF GRID 13)**
Sample Date			**3/4/2010**	**3/4/2010**	**3/4/2010**	**3/11/2010**	**3/8/2010**	**3/11/2010**	**3/11/2010**
Units			**PPM**	**PPM**	**PPM**	**PPM**	**PPM**	**PPM**	**PPM**
Polychlorinated Biphenyls (8082)									
Aroclor 1016	NA	NA	ND	ND	ND		ND	ND	ND
Aroclor 1221	NA	NA	ND	ND	ND	ND	ND	ND	ND
Aroclor 1232	NA	NA	ND	ND	ND	ND	ND	ND	ND
Aroclor 1242	NA	NA	ND	ND	ND	ND	ND	ND	ND
Aroclor 1248	NA	NA	ND	ND	ND	ND	ND	ND	ND
Aroclor 1254	NA	NA	ND	ND	ND	ND	ND	ND	ND
Aroclor 1260	NA	NA	0.24 J	0.37	16 D08	4.1	93 D08	1.2	1
TOTAL PCBs	**25**	**1**	0.24	0.37	16	4.1	93	1.2	1

Data Qualifiers:

J = Analyte detected at a level less than the reporting limit (RL) and greater than or equal to the Method Detection Limit (MDL). Concentrations within this range are estimated.
D08 = Dilution required due to high concentration of target analyte(s)
Z3 = The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Footnotes:

All values are in Parts per Million (PPM).
SS = Surface Sample
SW = Surface Water sample
SED = Sediment sample
ND = Not detected above the practical quantitation limits (PQL), lower limit of quantitation (LLQ), or reporting limit (RL).
Pile = Temporarily staged soil/fill from designated grids

Table by: AML
Checked by: JRS
Reviewed by: PTM

TABLE 8-1

1755 DALE RD. BCP SITE # C915234 - NIAGARA TRANSFORMER CORP. CHEEKTOWAGA, NEW YORK

COST ESTIMATE FOR IRM & IMPLEMENTATION OF A SITE MANAGEMENT PLAN

Direct Capital Cost ($)

Item	Unit Cost	Unit	Quantity	Years Incurred	Total Cost	30 Yr. Present Value @ 5%
Implementation of IRM (February -April 2010)	$420,000	LS	1	1	$420,000	$420,000
				Subtotal, Direct Capital Costs	$420,000	$420,000

Indirect Capital Costs ($)

		Total Cost	Present Value Cost @ 5%
Engineering/Administration	12% of Capital Costs	$50,400	$50,400
	Subtotal, Indirect Capital Costs	$50,400	$50,400
	Total Capital Costs (Direct and Indirect)	$470,400	$470,400

Annual Operations Maintenance & Monitoring (OM & M), Direct

Item	Unit Cost	Unit	Quantity	Years Incurred	Annual Cost	Present Value Cost @ 5%
Annual Stormwater Monitoring	$2,000	Year	1	30	$2,000	$30,304
Annual Certifications	$1,500	Year	1	30	$1,500	$22,728
				Total Annual Cost	$3,500	
				Subtotal, Direct O&M Costs (30 Years)	$105,000	$53,033

Annual Operation Maintenance & Monitoring (OM & M), Indirect		Annual Cost	Present Value Cost @ 5%
Engineering/Administration	12% of O&M Costs	$420	$6,364
Contingencies	25% of O&M Costs	$875	$13,258
	Subtotal, Indirect O&M Costs	$1,295	$19,622
	Total Annual O&M Cost (Direct and Indirect)	$4,795	
	Total O&M Costs (Direct and Indirect)	$143,850	$72,655

Total Present Worth (PW): IRM Costs + OM & M PW

	Total 30 Year Cost	Present Value Cost @ 5%
Total Cost of Alternative	$614,250	$543,055

Notes/Assumptions:

A 5% rate of return was used for calculating present value costs.

TABLE 8-2

1755 DALE RD. BCP SITE # C915234 - NIAGARA TRANSFORMER CORP. CHEEKTOWAGA, NEW YORK

COST ESTIMATE FOR RESTRICTED COMMERCIAL USE & IMPLEMENTATION OF A SITE MANAGEMENT PLAN

Direct Capital Cost ($)

Item	Unit Cost	Unit	Quantity	Years Incurred	Total Cost	30 Yr. Present Value @ 5%
Implementation of IRM (February -April 2010)	$420,000	LS	1	1	$420,000	$420,000
Impacted Soil/Fill Excavation, Staging & Hauling	$25	CY	2500	1	$62,500	$62,500
PCB-Imapcted Non-Hazardous Soil/Fill Disposal	$80	TON	3750	1	$300,000	$300,000
Verification Sampling	$120	EA	25	1	$3,000	$3,000
				Subtotal, Direct Capital Costs	$785,500	$785,500

Indirect Capital Costs ($)

		Total Cost	Present Value Cost @ 5%
Engineering/Administration	12% of Capital Costs	$94,260	$94,260
	Subtotal, Indirect Capital Costs	$94,260	$94,260
	Total Capital Costs (Direct and Indirect)	$879,760	$879,760

Annual Operations Maintenance & Monitoring (OM & M), Direct

Item	Unit Cost	Unit	Quantity	Years Incurred	Annual Cost	Present Value Cost @ 5%
Annual Stormwater Monitoring	$2,000	Year	1	30	$2,000	$30,304
Annual Certifications	$1,500	Year	1	30	$1,500	$22,728
				Total Annual Cost	$3,500	
				Subtotal, Direct O&M Costs (30 Years)	$105,000	$53,033

Annual Operation Maintenance & Monitoring (OM & M), Indirect		Annual Cost	Present Value Cost @ 5%
Engineering/Administration	12% of O&M Costs	$420	$6,364
Contingencies	25% of O&M Costs	$875	$13,258
	Subtotal, Indirect O&M Costs	$1,295	$19,622
	Total Annual O&M Cost (Direct and Indirect)	$4,795	
	Total O&M Costs (Direct and Indirect)	$143,850	$72,655

Total Present Worth (PW): IRM Costs + OM & M PW

	Total 30 Year Cost	Present Value Cost @ 5%
Total Cost of Alternative	$1,023,610	$952,415

Notes/Assumptions:

A 5% rate of return was used for calculating present value costs.

TABLE 8-3

1755 DALE RD. BCP SITE # C915234 - NIAGARA TRANSFORMER CORP. CHEEKTOWAGA, NEW YORK

COST ESTIMATE FOR UNRESTRICTED USE

Direct Capital Cost ($)						
Item	Unit Cost	Unit	Quantity	Years Incurred	Total Cost	
Implementation of IRM (February -April 2010)	$420,000	LS	1	1	$420,000	
Impacted Soil/Fill Excavation, Staging & Hauling	$25	CY	10500	1	$262,500	
PCB-Imapcted Non-Hazardous Soil/Fill Disposal	$80	TON	15750	1	$1,260,000	
Verification Sampling	$120	EA	60	1	$7,200	
				Subtotal, Direct Capital Costs	$1,949,700	
Indirect Capital Costs ($)						
					Total Cost	
Engineering/Administration			12% of Capital Costs		$233,964	
				Subtotal, Indirect Capital Costs	$233,964	
				Total Capital Costs (Direct and Indirect)	**$2,183,664**	

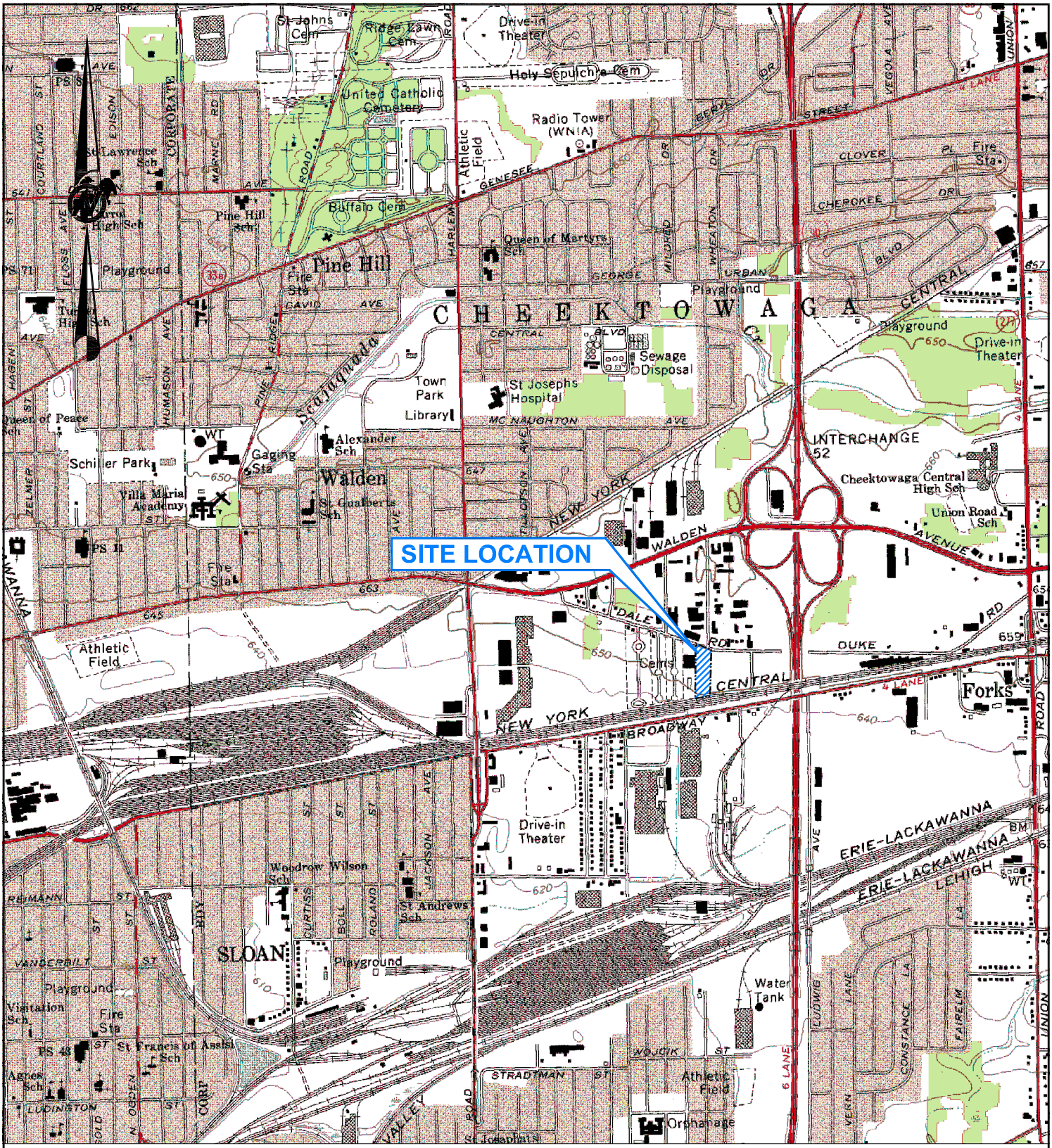
TABLE 8-4

1755 DALE RD. BCP SITE # C915234 - NIAGARA TRANSFORMER CORP. CHEEKTOWAGA, NEW YORK

SUMMARY OF REMEDIAL COST ALTERNATIVES

REMEDIAL ALTERNATIVE	ESTIMATED 30 YR PRESENT WORTH COST
No Further Action (Cost of Completed IRM)	**$470,400**
IRM & Implementation of Site Management Plan (SMP) (Cost of Completed IRM, plus SMP and Future OM & M)	**$543,500**
Restricted Commercial Use Cleanup & Implementation of SMP (Cost of Completed IRM, restricted commercial cleanup plus SMP and Future OM & M)	**$952,500**
Unrestricted Use Cleanup (Cost of Completed IRM and unrestricted use cleanup)	**$2,183,664**

FIGURES



REFERENCE

1.) BASE FROM 7.5 MINUTE QUADRANGLE OF BUFFALO NORTHEAST, NEW YORK DATED 1965.

2000 0 2000
SCALE FEET

Golder Associates
Mt. Laurel, New Jersey

SCALE	AS SHOWN
DATE	07/06/09
DESIGN	PTM
CADD	GLS
CHECK	
REVIEW	

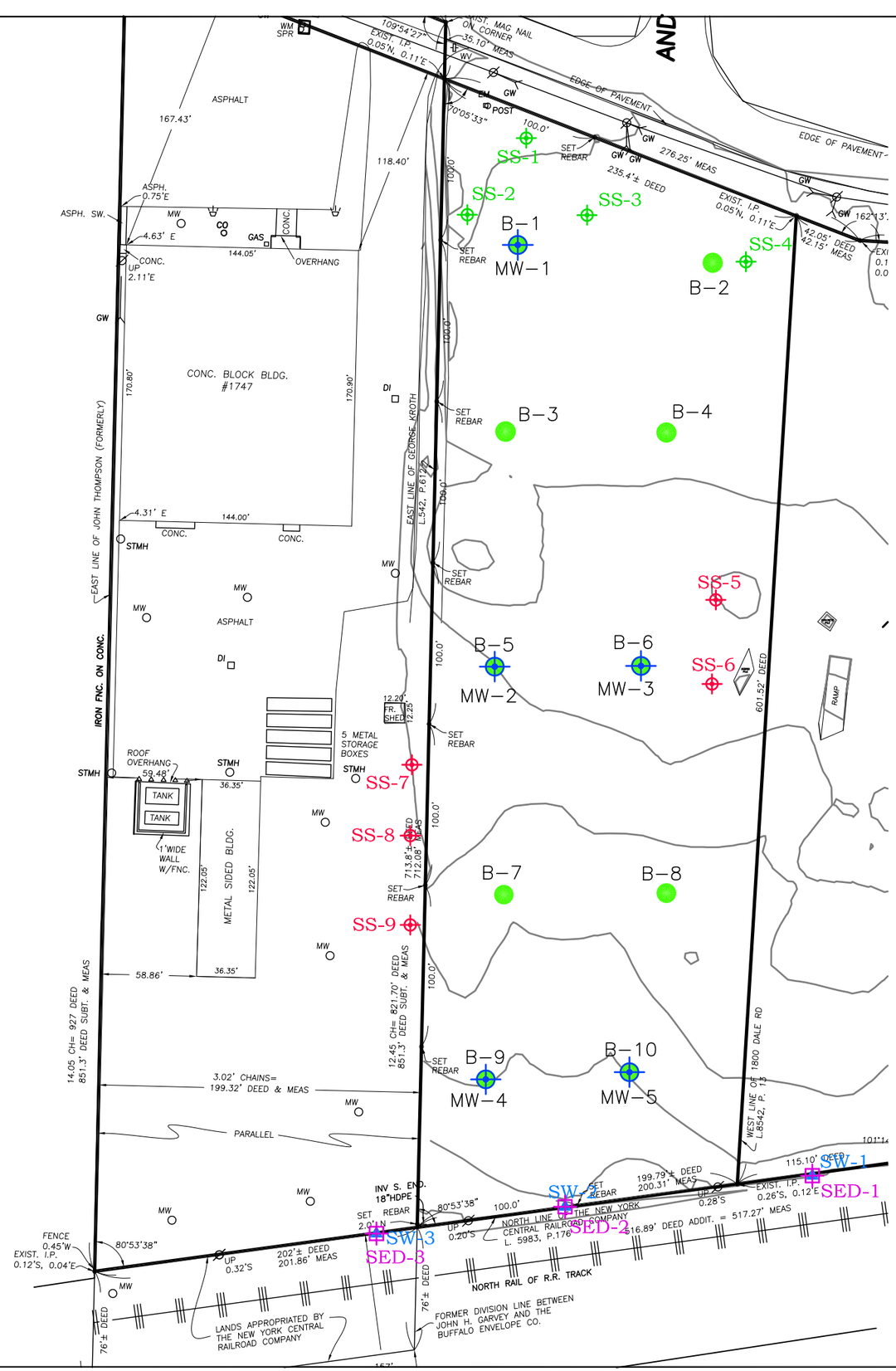
FILE No. 0938914402A001
PROJECT No. 093-89144-02 REV. 0

TITLE

SITE VICINITY MAP
1755 DALE ROAD BCP PARCEL
CHEEKTOWAGA, NEW YORK

NIAGARA TRANSFORMER CORP.

FIGURE 1-1



LEGEND

- RI BORING SAMPLE
- SS-1 RI SURFACE SAMPLE
- MW-1 RI MONITORING WELL
- SS-1 SUPPLIMENTAL RI SURFACE SAMPLE
- SW-1 SUPPLIMENTAL RI SURFACEWATER SAMPLE
- SED-1 SUPPLIMENTAL RI SEDIMENT SAMPLE

LEGEND		
ASPH		ASPHALT
BLDG		BUILDING
CLF	—×—	CHAIN LINK FENCE
CO	○	CLEAN OUT
CONC		CONCRETE
D		DEED
DI	□	DRAINAGE INLET
EM	□	ELECTRIC METER
FLT		FLOOD LIGHT
GAS	□	GAS METER
GP	△	GUIDE POST
GW	>—	GUY WIRE
HYD		HYDRANT
INV		INVERT ELEVATION
L		LIBER
MB	□	MAILBOX
MW	○	MONITORING WELL
P.		PAGE
SA MH	○	SANITARY MANHOLE
ST MH	○	STORM MANHOLE
SW		SIDEWALK
UP	⌀	UTILITY POLE
WV	⊕	WATER VALVE
		PROPERTY BOUNDARY

REFERENCE

1.) BOUNDARY SURVEY AND BUILDING STRUCTURES PROVIDED BY DEBORAH A. NAYBOR PLS, P.C. LAND SURVEYING – LAND PLANNING DATED 11/15/2007 (REVISED 12/11/2007).

SCALE 40 0 40 80 FEET

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW

PROJECT

RI/AAR/IRM REPORT
NIAGARA TRANSFORMER CORP.
CHEEKTOWAGA, NEW YORK

TITLE

REMEDIAL INVESTIGATION SAMPLE LOCATIONS

NJ Authorization #24GA28029100

Golder Associates
Mt. Laurel, New Jersey

PROJECT No.	093–8914402		FILE No.	0938914402A014	
DESIGN	AML	08/12/09	SCALE	AS SHOWN	REV. 0
CADD	AML	1/11/10			
CHECK					
REVIEW					

FIGURE 3-1

LEGEND

1	GRID LOCATION NUMBER
654.12' TC 650.47' BC	BC = BOTTOM OF EXCAVATION CUT TC = TOP OF EXCAVATION CUT
	DITCH
E. / ELEV.	EAST ELEVATION
	LIMITS OF EXCAVATION 3-23-2010
	LIMITS OF TOPO SURVEY (2-8-2010)
MON. WELL	MONITORING WELL
N.	NORTH
	PROPERTY LINE (APPROXIMATE)
	RAILROAD TRACKS
S.	SOUTH
+650.42	SPOT ELEVATION
UP	UTILITY POLE
651	1' MINOR CONTOUR INTERVAL
650	5' MAJOR CONTOUR INTERVAL

NOTES

1.) BOUNDARY SURVEY AND BUILDING STRUCTURES PROVIDED BY DEBORAH A. NAYBOR PLS, P.C. LAND SURVEYING – LAND PLANNING DATED 11/15/2007 (REVISED 12/11/2007).

2.) HATCHED GRIDS TO BE EXCAVATED TO A DEPTH OF 1 FOOT BELOW GRADE SURFACE.

REFERENCES

1.) MAP FROM DIGITAL CAD FILE NEW AML SAMPLING RESULTS.DWG ENTITLED "PROPOSED IRM EXCAVATION PLAN," DATED DECEMBER 13, 2007, PREPARED BY BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC.

2.) EXCAVATION SURVEY FROM DIGITAL CAD FILE EXCAVATION SURVEY WITH GRID LAYOUT PLAN.DWG, ENTITLED "BOTTOM OF EXCAVATION CONTOUR MAP," PREPARED BY WENDEL DUCHSCHERE SURVEY DATED MARCH 23, 2010.

40 0 40 80
SCALE FEET

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW

PROJECT

NIAGARA TRANSFORMER CORP.
CHEEKTOWAGA, NEW YORK

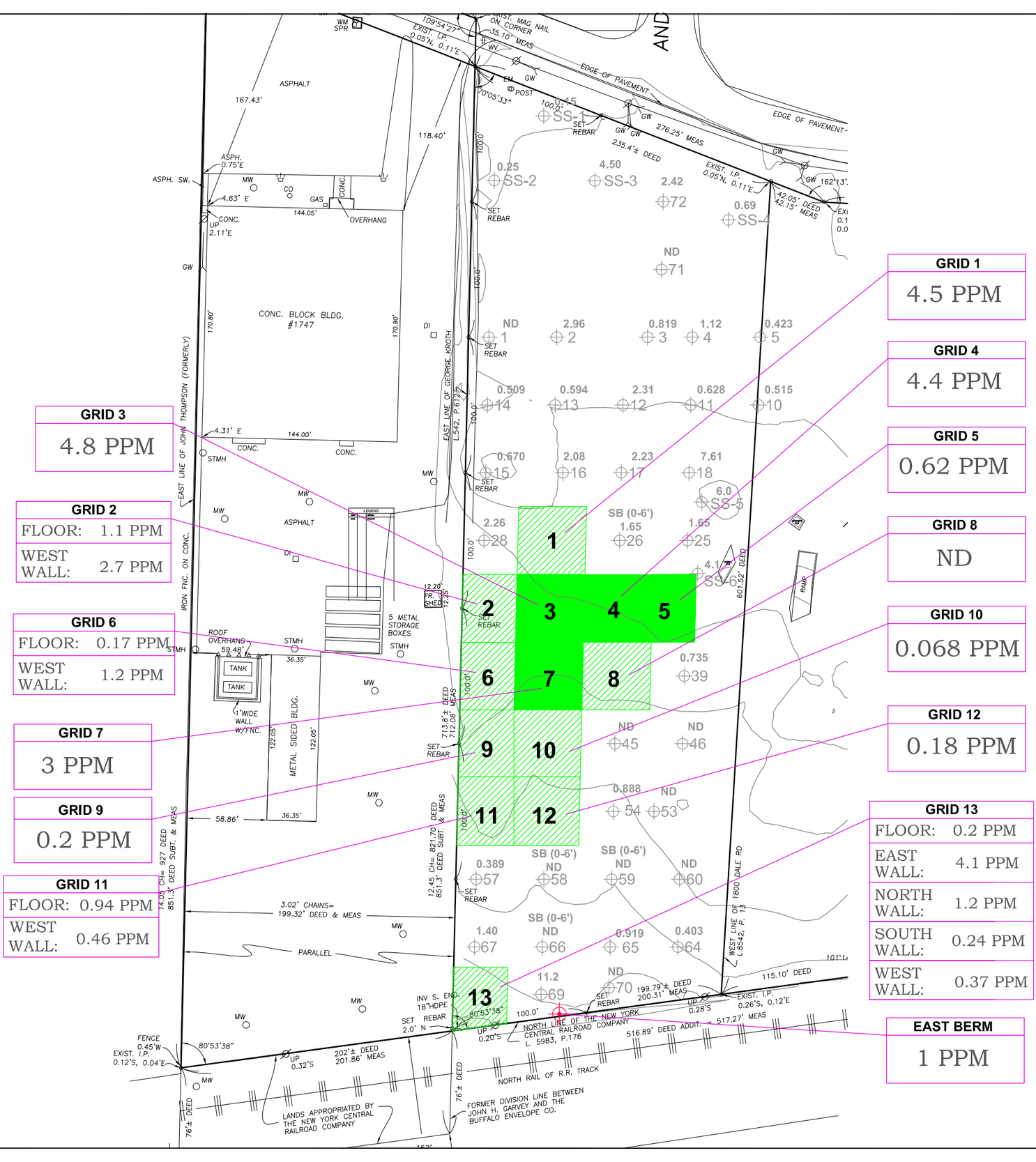
TITLE

EXCAVATION SURVEY

NJ Authorization #24GA28029100
Golder Associates
Mt. Laurel, New Jersey

PROJECT No.	093-8914402		FILE No.	Figure 5-1	
DESIGN	AL	08/12/09	SCALE	AS SHOWN	REV. 0
CADD	AM	04/09/10			
CHECK					
REVIEW					

FIGURE 5-1



LEGEND

0.2	FINAL SOIL SAMPLE PCB CONCENTRATION (PPM)
13	GRID LOCATION NUMBER
2.31	SURFACE SOIL SAMPLE RESULT
53	SURFACE SOIL SAMPLE LOCATION

LEGEND

ASPH		ASPHALT
BLDG		BUILDING
CLF	—×—	CHAIN LINK FENCE
CO	○	CLEAN OUT
CONC		CONCRETE
D		DEED
DI	□	DRAINAGE INLET
EM	□	ELECTRIC METER
FLT	□	FLOOD LIGHT
GAS	□	GAS METER
GP	△	GUIDE POST
GW	—>	GUY WIRE
HYD		HYDRANT
INV	(	INVERT ELEVATION
L.		LIBER
MB	□	MAILBOX
MW	○	MONITORING WELL
P.		PAGE
SA MH	○	SANITARY MANHOLE
ST MH	○	STORM MANHOLE
SW		SIDEWALK
UP	⌀	UTILITY POLE
WV	⌖	WATER VALVE
		PROPERTY BOUNDARY

GENERAL NOTES

1.) BOUNDARY SURVEY AND BUILDING STRUCTURES PROVIDED BY DEBORAH A. NAYBOR PLS, P.C. LAND SURVEYING – LAND PLANNING DATED 11/15/2007 (REVISED 12/11/2007).

2.) ALL CONFIRMATORY SAMPLES COLLECTED FROM FLOOR OF EACH GRID, UNLESS OTHERWISE NOTED, FOLLOWING EXCAVATION.

REFERENCE

1.) MAP FROM DIGITAL CAD FILE NEW AML SAMPLING RESULTS.DWG ENTITLED "PROPOSED IRM EXCAVATION PLAN," DATED DECEMBER 13, 2007, PREPARED BY BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC.

40 0 40 80
SCALE FEET

REV	DATE	DES	REVISION DESCRIPTION	CADD	CHK	RVW

PROJECT
RI/AA/IRM REPORT
NIAGARA TRANSFORMER CORP.
CHEEKTOWAGA, NEW YORK

TITLE
SUMMARY OF IRM EXCAVATION VERIFICATION SAMPLE RESULTS AND RESIDUAL SITE PCB CONCENTRATIONS

NJ Authorization #24GA28029100
Golder Associates
Mt. Laurel, New Jersey

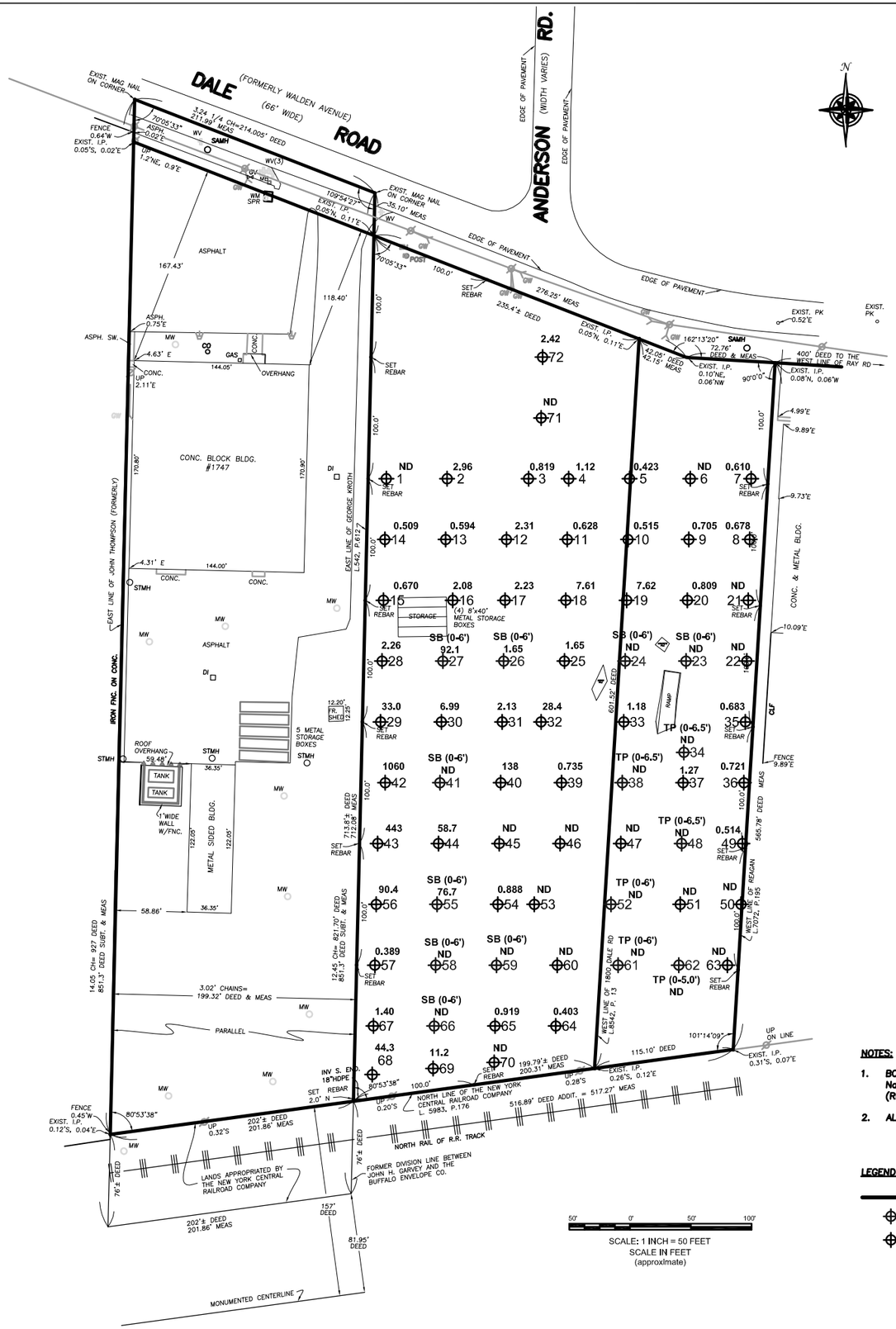
PROJECT No.	093-8914402		FILE No.	0938914402A023	
DESIGN	AML	08/12/09	SCALE	AS SHOWN	REV. 0
CADD	AML	06/17/10			
CHECK					
REVIEW					

FIGURE 5-2

APPENDIX A

SHEET 1 – DALE ROAD EXPANSION SAMPLING RESULTS

(DECEMBER 2007 INVESTIGATION)



LEGEND

ASPH		ASPHALT
BLDG		BUILDING
CLF	—x—	CHAIN LINK FENCE
CO	○	CLEAN OUT
CONC		CONCRETE
D		DEED
DI	□	DRAINAGE INLET
EM	□	ELECTRIC METER
FLT		FLOOD LIGHT
GAS	□	GAS METER
GP	△	GUIDE POST
GW	>—	GUY WIRE
HYD		HYDRANT
INV		INVERT ELEVATION
L		LIBER
MB	□	MAILBOX
MW	○	MONITORING WELL
P.		PAGE
SA MH	○	SANITARY MANHOLE
ST MH	○	STORM MANHOLE
SW		SIDEWALK
UP	⌀	UTILITY POLE
WV		WATER VALVE

NOTES:

1. **BOUNDARY SURVEY AND BUILDING STRUCTURES PROVIDED BY Deborah A. Naybor PLS, P.C. Land Surveying – Land Planning DATED 11/15/2007 (REVISED 12/11/2007).**
2. **ALL CONCENTRATIONS IN MG/KG UNLESS NOTED OTHERWISE.**

LEGEND:

PROPERTY BOUNDARY

62 SOIL BORING/TEST PIT

53 SURFACE SAMPLE

SURVEY
PART OF LOT 24, TOWNSHIP 11, RANGE 7
TOWN OF CHEEKTOWAGA
COUNTY OF ERIE
STATE OF NEW YORK

BENCHMARK ENVIRONMENTAL ENGINEERING & SCIENCE, PLLC
726 EXCHANGE STREET
SUITE 624
BUFFALO, NEW YORK 14210
(716) 856-0599

JOB NO.: 0027-012-100

REVISIONS

NO.	BY	DATE	REMARKS

SEAL

DRAWN BY: AJZ
DATE: 12/13/07
CHECKED BY:
APPROVED BY:

DALE ROAD EXPANSION SAMPLING RESULTS

NIAGARA TRANSFORMER
CHEEKTOWAGA, NEW YORK

PREPARED FOR
NIAGARA TRANSFORMER CORPORATION

SHEET - 1

APPENDIX B

FIELD BOREHOLE LOGS, MONITORING WELL COMPLETION DETAILS & WELL DEVELOPMENT RECORDS

FIELD BORING LOG

DEPTH HOLE 20'	JOB NO. 093-89144	PROJECT NIAGARA TRANSFORMER/BCP SERVICES/NY			BORING NO. B-1
DEPTH SOIL DRILL 20'	GA INSP. AJN/AL	DRILLING METHOD 4-1/4" ID Hollow Stem Augers			SHEET 1 of 1
DEPTH ROCK CORE N/A	WEATHER SUNNY	DRILLING CO. EARTH DIMENSIONS			SURFACE EL.
NO. DIST. 10 US. N/A	TEMP. 60° F	DRILL RIG CME-550	DRILLER A MORRIS		DATUM SITE
DEPTH WL. N/A	HRS. PROD. N/A	WT. SAMPLER HAMMER 140 lb.	DROP 30"		STARTED 0843/9-17-09
TIME WL. N/A	HRS. DELAYED N/A	WT. CASING HAMMER N/A	DROP N/A		COMPLETED 0930/9-17-09

SAMPLE TYPES

A.S.	AUGER SAMPLE
C.S.	CHUNK SAMPLE
D.O.	DRIVE OPEN
D.S.	DENISON SAMPLE
P.S.	PITCHER SAMPLE
R.C.	ROCK CORE
S.T.	SLOTTED TUBE
T.O.	THIN-WALLED, OPEN
T.P.	THIN-WALLED, PISTON
W.S.	WASH SAMPLE

ABBREVIATIONS

BL	BLACK	M	MEDIUM	SA	SAMPLE		
BR	BROWN	MIC	MICACEOUS	SAT	SATURATED		
C	COARSE	MOT	MOTTLED	SD	SAND		
CA	CASING	NP	NON-PLASTIC	SI	SILT		
CL	CLAY	OG	ORANGE	SIY	SILTY		
CLY	CLAYEY	ORG	ORGANIC	SM	SOME		
F	FINE	PH	PRESSURE-HYDRAULIC	TR	TRACE		
FRAG	FRAGMENTS	PM	PRESSURE-MANUAL	WL	WATER LEVEL		
GL	GRAVEL	R	RED	WH	WEIGHT OF HAMMER		
LYD	LAYERED	RES	RESIDUAL	WR	WEIGHT OF RODS		
LI	LITTLE	RX	ROCK	Y	YELLOW		

SOIL DESCRIPTION – RANGE OF PROPORTION

"TRACE" – 0–5%
"LITTLE" – 5–12%
"SOME" – 12–30%
"AND" – 30–50%

CONSISTENCY

LS	LOOSE	S	SOFT
CP	COMPACT	FM	FIRM
DN	DENSE	ST	STIFF
V	VERY	H	HARD

ELEV. DEPTH	DESCRIPTION	BLOWS/FT.	SAMPLES NO.	SAMPLES TYPE	SAMPLES VOC CONTENT (P.I.D.) (UPPER/LOWER)	SAMPLES REC/ATT	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
2	CLAY TILL UNIT 0'–8.0'	N/A	1	DO	0.0 ppm / 0.0 ppm	12" / 24"		SA–1 0.0-1.0 ft. Loose, gray-brown SILT and fine SAND, some coarse gravel, slightly moist. 1.0-2.0 ft. Firm, dark brown SILT, some fine to coarse sand, little clay, trace coarse gravel, moist.
4		N/A	2	DO	0.0 ppm / 0.0 ppm	20" / 24"		SA–2 2.0-4.0 ft. Stiff, light brown, mottled gray, CLAYEY SILT to SILTY CLAY, little fine to coarse gravel, trace fine to coarse sand, very moist. (ML-CL)
6		N/A	3	DO	0.0 ppm / 0.0 ppm	20" / 24"		SA–3 4.0-4.8 ft. Soft to firm, brown to mottled gray SILTY CLAY, little fine to coarse gravel, trace fine to coarse sand, very moist. 4.8-6.0 ft. Compact, gray CLAYEY SILT, trace fine gravel, trace fine sand, moist. (ML-CL)
8		N/A	4	DO	0.0 ppm / 0.0 ppm	24" / 24"		SA–4 6.0-8.0 ft. Compact, gray-brown, trace orange mottling, CLAYEY SILT, trace fine gravel, trace fine sand, moist. (ML)
10								8.0-20.0 ft. AUGERED WITH NO SAMPLING
12								
14								
16								
18								
20	20.0 FT. END OF BOREHOLE							

FIELD BORING LOG

DEPTH HOLE 8'	JOB NO. 093-89144	PROJECT NIAGARA TRANSFORMER/BCP SERVICES/NY			BORING NO. B-2
DEPTH SOIL DRILL 8'	GA INSP. AJN	DRILLING METHOD DIRECT PUSH			SHEET 1 of 1
DEPTH ROCK CORE N/A	WEATHER SUNNY	DRILLING CO. EARTH DIMENSIONS			SURFACE EL.
NO. DIST. 10 US. N/A	TEMP. 63° F	DRILL RIG GEOPROBE	DRILLER A MORRIS		DATUM SITE
DEPTH WL. N/A	HRS. PROD. N/A	WT. SAMPLER HAMMER N/A	DROP N/A		STARTED 0820/9-21-09
TIME WL. N/A	HRS. DELAYED N/A	WT. CASING HAMMER N/A	DROP N/A		COMPLETED 0910/9-21-09

SAMPLE TYPES

A.S.	AUGER SAMPLE
C.S.	CHUNK SAMPLE
D.O.	DRIVE OPEN
D.S.	DENISON SAMPLE
P.S.	PITCHER SAMPLE
R.C.	ROCK CORE
S.T.	SLOTTED TUBE
T.O.	THIN-WALLED, OPEN
T.P.	THIN-WALLED, PISTON
W.S.	WASH SAMPLE

ABBREVIATIONS

BL	BLACK	M	MEDIUM	SA	SAMPLE
BR	BROWN	MIC	MICACEOUS	SAT	SATURATED
C	COARSE	MOT	MOTTLED	SD	SAND
CA	CASING	NP	NON-PLASTIC	SI	SILT
CL	CLAY	OG	ORANGE	SIY	SILTY
CLY	CLAYEY	ORG	ORGANIC	SM	SOME
F	FINE	PH	PRESSURE-HYDRAULIC	TR	TRACE
FRAG	FRAGMENTS	PM	PRESSURE-MANUAL	WL	WATER LEVEL
GL	GRAVEL	R	RED	WH	WEIGHT OF HAMMER
LYD	LAYERED	RES	RESIDUAL	WR	WEIGHT OF RODS
LI	LITTLE	RX	ROCK	Y	YELLOW

SOIL DESCRIPTION – RANGE OF PROPORTION

"TRACE" – 0–5%
"LITTLE" – 5–12%
"SOME" – 12–30%
"AND" – 30–50%

CONSISTENCY

LS	LOOSE	S	SOFT
CP	COMPACT	FM	FIRM
DN	DENSE	ST	STIFF
V	VERY	H	HARD

ELEV. DEPTH	DESCRIPTION	BLOWS/FT.	SAMPLES NO.	SAMPLES TYPE	SAMPLES VOC CONTENT (P.I.D.) (UPPER/LOWER)	SAMPLES REC/ATT	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
0	FILL 0'–1.5'				0.0 ppm			SA–1 0.0-1.5 ft. Loose, gray to brown SILT and fine SAND, some coarse gravel, little plant material, moist. (ML-SM)
					0.0 ppm			1.5-4.0 ft. Very stiff, red-brown to brown CLAYEY SILT, trace fine gravel, moist. (ML-CL)
2	CLAY TILL LAYER 1.5'–8.0'	N/A	1	DO	0.0 ppm	32"/48"		
					0.0 ppm			
4		N/A	2	DO	0.0 ppm	48"/48"		SA–2 4.0-8.0 ft. Stiff, brown, CLAYEY SILT to SILTY CLAY, trace fine to coarse gravel, trace fine sand, moist. (ML-CL)
					0.0 ppm			
6					0.0 ppm			
					0.0 ppm			
8	8.0 FT. END OF BOREHOLE							

FIELD BORING LOG

DEPTH HOLE 8'	JOB NO. 093-89144	PROJECT NIAGARA TRANSFORMER/BCP SERVICES/NY			BORING NO. B-3
DEPTH SOIL DRILL 8'	GA INSP. AJN	DRILLING METHOD DIRECT PUSH			SHEET 1 of 1
DEPTH ROCK CORE N/A	WEATHER SUNNY	DRILLING CO. EARTH DIMENSIONS			SURFACE EL.
NO. DIST. 10 US. N/A	TEMP. 60° F	DRILL RIG GEOPROBE	DRILLER A MORRIS		DATUM SITE
DEPTH WL. N/A	HRS. PROD. N/A	WT. SAMPLER HAMMER N/A	DROP N/A		STARTED 0925/9-21-09
TIME WL. N/A	HRS. DELAYED N/A	WT. CASING HAMMER N/A	DROP N/A		COMPLETED 1000/9-21-09

SAMPLE TYPES

A.S.	AUGER SAMPLE
C.S.	CHUNK SAMPLE
D.O.	DRIVE OPEN
D.S.	DENISON SAMPLE
P.S.	PITCHER SAMPLE
R.C.	ROCK CORE
S.T.	SLOTTED TUBE
T.O.	THIN-WALLED, OPEN
T.P.	THIN-WALLED, PISTON
W.S.	WASH SAMPLE

ABBREVIATIONS

BL	BLACK	M	MEDIUM	SA	SAMPLE
BR	BROWN	MIC	MICACEOUS	SAT	SATURATED
C	COARSE	MOT	MOTTLED	SD	SAND
CA	CASING	NP	NON-PLASTIC	SI	SILT
CL	CLAY	OG	ORANGE	SIY	SILTY
CLY	CLAYEY	ORG	ORGANIC	SM	SOME
F	FINE	PH	PRESSURE-HYDRAULIC	TR	TRACE
FRAG	FRAGMENTS	PM	PRESSURE-MANUAL	WL	WATER LEVEL
GL	GRAVEL	R	RED	WH	WEIGHT OF HAMMER
LYD	LAYERED	RES	RESIDUAL	WR	WEIGHT OF RODS
LI	LITTLE	RX	ROCK	Y	YELLOW

SOIL DESCRIPTION – RANGE OF PROPORTION

"TRACE" – 0–5%
"LITTLE" – 5–12%
"SOME" – 12–30%
"AND" – 30–50%

CONSISTENCY

LS	LOOSE	S	SOFT
CP	COMPACT	FM	FIRM
DN	DENSE	ST	STIFF
V	VERY	H	HARD

ELEV. DEPTH	DESCRIPTION	BLOWS/FT.	SAMPLES NO.	SAMPLES TYPE	SAMPLES VOC CONTENT (P.I.D.) (UPPER/LOWER)	SAMPLES REC/ATT	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
0	FILL 0'–1.5'				0.0 ppm			SA–1 0.0-0.5 ft. Loose, gray SILT and fine SAND, some coarse gravel, slightly moist. (ML-SM)
					0.0 ppm			0.5-1.5 ft. Compact, dark brown to black SILT and fine SAND, trace fine gravel, moist. (ML-SM)
2	SILT TILL LAYER 1.5'–8.0'	N/A	1	DO	0.0 ppm	28" / 48"		1.5-4.0 ft. Firm, brown SILTY CLAY, trace fine sand, trace fine gravel, moist. (ML-CL)
					0.0 ppm			
4		N/A	2	DO	0.0 ppm	38" / 48"		SA–2 4.0-8.0 ft. Compact, brown SILT, some clay, trace fine gravel, very moist. (ML)
					0.0 ppm			
6					0.0 ppm			
					0.0 ppm			
8	8.0 FT. END OF BOREHOLE							

FIELD BORING LOG

DEPTH HOLE 8'	JOB NO. 093-89144	PROJECT NIAGARA TRANSFORMER/BCP SERVICES/NY			BORING NO. B-4
DEPTH SOIL DRILL 8'	GA INSP. AJN	DRILLING METHOD DIRECT PUSH			SHEET 1 of 1
DEPTH ROCK CORE N/A	WEATHER SUNNY	DRILLING CO. EARTH DIMENSIONS			SURFACE EL.
NO. DIST. 10 US. N/A	TEMP. 60° F	DRILL RIG GEOPROBE	DRILLER A. MORRIS		DATUM SITE
DEPTH WL. N/A	HRS. PROD. N/A	WT. SAMPLER HAMMER N/A	DROP N/A		STARTED 0855/9-21-09
TIME WL. N/A	HRS. DELAYED N/A	WT. CASING HAMMER N/A	DROP N/A		COMPLETED 0920/9-21-09

SAMPLE TYPES

A.S.	AUGER SAMPLE
C.S.	CHUNK SAMPLE
D.O.	DRIVE OPEN
D.S.	DENISON SAMPLE
P.S.	PITCHER SAMPLE
R.C.	ROCK CORE
S.T.	SLOTTED TUBE
T.O.	THIN-WALLED, OPEN
T.P.	THIN-WALLED, PISTON
W.S.	WASH SAMPLE

ABBREVIATIONS

BL	BLACK	M	MEDIUM	SA	SAMPLE
BR	BROWN	MIC	MICACEOUS	SAT	SATURATED
C	COARSE	MOT	MOTTLED	SD	SAND
CA	CASING	NP	NON-PLASTIC	SI	SILT
CL	CLAY	OG	ORANGE	SIY	SILTY
CLY	CLAYEY	ORG	ORGANIC	SM	SOME
F	FINE	PH	PRESSURE-HYDRAULIC	TR	TRACE
FRAG	FRAGMENTS	PM	PRESSURE-MANUAL	WL	WATER LEVEL
GL	GRAVEL	R	RED	WH	WEIGHT OF HAMMER
LYD	LAYERED	RES	RESIDUAL	WR	WEIGHT OF RODS
LI	LITTLE	RX	ROCK	Y	YELLOW

SOIL DESCRIPTION – RANGE OF PROPORTION

"TRACE" – 0–5%
"LITTLE" – 5–12%
"SOME" – 12–30%
"AND" – 30–50%

CONSISTENCY

LS	LOOSE	S	SOFT
CP	COMPACT	FM	FIRM
DN	DENSE	ST	STIFF
V	VERY	H	HARD

ELEV. DEPTH	DESCRIPTION	BLOWS/FT.	SAMPLES NO.	SAMPLES TYPE	SAMPLES VOC CONTENT (P.I.D.) (UPPER/LOWER)	SAMPLES REC/ATT	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
0	FILL 0'–1.2'							SA–1 0.0-1.2 ft. Loose, gray-brown SILT and fine SAND, some gravel, trace plant roots, moist. (ML-SM)
2	SILT TILL LAYER 1.2'–8.0'	N/A	1	DO	0.0 ppm 0.0 ppm 0.0 ppm 0.0 ppm	38"/48"		1.2-4.0 ft. Compact, brown CLAYEY fine SAND, some silt, very moist. (SM-CL)
4		N/A	2	DO	0.0 ppm 0.0 ppm 0.0 ppm 0.0 ppm	48"/48"		SA–2 4.0-8.0 ft. Compact, brown fine SAND, little silt, saturated. (SM)
6								
8	8.0 FT. END OF BOREHOLE							

FIELD BORING LOG

DEPTH HOLE 16'	JOB NO. 093-89144	PROJECT NIAGARA TRANSFORMER/BCP SERVICES/NY			BORING NO. B-5
DEPTH SOIL DRILL 16'	GA INSP. AJN	DRILLING METHOD 4-1/4" ID Hollow Stem Augers			SHEET 1 of 1
DEPTH ROCK CORE N/A	WEATHER CLOUDY	DRILLING CO. EARTH DIMENSIONS			SURFACE EL.
NO. DIST. 10 US. N/A	TEMP. 64° F	DRILL RIG CME-550	DRILLER A MORRIS		DATUM SITE
DEPTH WL. N/A	HRS. PROD. N/A	WT. SAMPLER HAMMER 140 lb.	DROP 30"		STARTED 0945/9-18-09
TIME WL. N/A	HRS. DELAYED N/A	WT. CASING HAMMER N/A	DROP N/A		COMPLETED 1030/9-18-09

SAMPLE TYPES

A.S.	AUGER SAMPLE
C.S.	CHUNK SAMPLE
D.O.	DRIVE OPEN
D.S.	DENISON SAMPLE
P.S.	PITCHER SAMPLE
R.C.	ROCK CORE
S.T.	SLOTTED TUBE
T.O.	THIN-WALLED, OPEN
T.P.	THIN-WALLED, PISTON
W.S.	WASH SAMPLE

ABBREVIATIONS

BL	BLACK	M	MEDIUM	SA	SAMPLE		
BR	BROWN	MIC	MICACEOUS	SAT	SATURATED		
C	COARSE	MOT	MOTTLED	SD	SAND		
CA	CASING	NP	NON-PLASTIC	SI	SILT		
CL	CLAY	OG	ORANGE	SIY	SILTY		
CLY	CLAYEY	ORG	ORGANIC	SM	SOME		
F	FINE	PH	PRESSURE-HYDRAULIC	TR	TRACE		
FRAG	FRAGMENTS	PM	PRESSURE-MANUAL	WL	WATER LEVEL		
GL	GRAVEL	R	RED	WH	WEIGHT OF HAMMER		
LYD	LAYERED	RES	RESIDUAL	WR	WEIGHT OF RODS		
LI	LITTLE	RX	ROCK	Y	YELLOW		

SOIL DESCRIPTION – RANGE OF PROPORTION

"TRACE" – 0–5%
"LITTLE" – 5–12%
"SOME" – 12–30%
"AND" – 30–50%

CONSISTENCY

LS	LOOSE	S	SOFT
CP	COMPACT	FM	FIRM
DN	DENSE	ST	STIFF
V	VERY	H	HARD

ELEV. DEPTH	DESCRIPTION	BLOWS/FT.	SAMPLES NO.	TYPE	VOC CONTENT (P.I.D.) (UPPER/LOWER)	REC/ATT	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
0								
	FILL	N/A	1	DO	0.0 ppm 0.0 ppm	11"/24"		SA-1 0.0-2.0 ft. Loose, dark brown SILT and fine sand, some coarse gravel, trace clay, some plant roots, moist. (ML-SM)
2	0'–2.4'							
		N/A	2	DO	23.6 ppm 5.9 ppm	14"/24"		SA-2 2.0-2.4 ft. Loose, black SAND and fine GRAVEL, some cinders, slightly moist. (GP) 2.4-4.0 ft. Firm, dark brown to brown CLAYEY SILT to SILTY CLAY, trace fine sand, moist. (ML-CL)
	CLAY TILL LAYER							
4	2.4'–8.0'							
		N/A	3	DO	0.0 ppm 0.0 ppm	24"/24"		SA-3 4.0-6.0 ft. Firm, brown SILTY CLAY, little fine sand, trace fine gravel, slightly plastic, moist. (ML-CL)
6								
		N/A	4	DO	0.0 ppm 0.0 ppm	21"/24"		SA-4 6.0-8.0 ft. As above, trace coarse gravel, moist. (ML-CL)
8								
								8.0-16.0 ft. AUGERED WITH NO SAMPLING
10								
12								
14								
16	16.0 FT. END OF BOREHOLE							
18								
20								

FIELD BORING LOG

DEPTH HOLE 16'	JOB NO. 093-89144	PROJECT NIAGARA TRANSFORMER/BCP SERVICES/NY			BORING NO. B-6
DEPTH SOIL DRILL 16'	GA INSP. AJN	DRILLING METHOD 4-1/4" ID Hollow Stem Augers			SHEET 1 of 1
DEPTH ROCK CORE N/A	WEATHER CLOUDY	DRILLING CO. EARTH DIMENSIONS			SURFACE EL.
NO. DIST. 10 US. N/A	TEMP. 62° F	DRILL RIG CME-550	DRILLER A MORRIS		DATUM SITE
DEPTH WL. N/A	HRS. PROD. N/A	WT. SAMPLER HAMMER 140 lb.	DROP 30"		STARTED 1200/9-18-09
TIME WL. N/A	HRS. DELAYED N/A	WT. CASING HAMMER N/A	DROP N/A		COMPLETED 1230/9-18-09

SAMPLE TYPES

A.S.	AUGER SAMPLE
C.S.	CHUNK SAMPLE
D.O.	DRIVE OPEN
D.S.	DENISON SAMPLE
P.S.	PITCHER SAMPLE
R.C.	ROCK CORE
S.T.	SLOTTED TUBE
T.O.	THIN-WALLED, OPEN
T.P.	THIN-WALLED, PISTON
W.S.	WASH SAMPLE

ABBREVIATIONS

BL	BLACK	M	MEDIUM	SA	SAMPLE
BR	BROWN	MIC	MICACEOUS	SAT	SATURATED
C	COARSE	MOT	MOTTLED	SD	SAND
CA	CASING	NP	NON-PLASTIC	SI	SILT
CL	CLAY	OG	ORANGE	SIY	SILTY
CLY	CLAYEY	ORG	ORGANIC	SM	SOME
F	FINE	PH	PRESSURE-HYDRAULIC	TR	TRACE
FRAG	FRAGMENTS	PM	PRESSURE-MANUAL	WL	WATER LEVEL
GL	GRAVEL	R	RED	WH	WEIGHT OF HAMMER
LYD	LAYERED	RES	RESIDUAL	WR	WEIGHT OF RODS
LI	LITTLE	RX	ROCK	Y	YELLOW

SOIL DESCRIPTION – RANGE OF PROPORTION

"TRACE" – 0–5%
"LITTLE" – 5–12%
"SOME" – 12–30%
"AND" – 30–50%

CONSISTENCY

LS	LOOSE	S	SOFT
CP	COMPACT	FM	FIRM
DN	DENSE	ST	STIFF
V	VERY	H	HARD

ELEV. DEPTH	DESCRIPTION	BLOWS/FT.	SAMPLES NO.	TYPE	VOC CONTENT (P.I.D.) (UPPER/LOWER)	REC/ATT	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
0								
2	FILL 0'–3.2'	N/A	1	DO	0.0 ppm / 0.0 ppm	24" / 24"		SA–1 0.0-2.0 ft. Loose, dark brown SILT and fine sand, little coarse gravel, some plant roots, moist. (ML-SM)
4	SILT TILL LAYER 3.2'–8.0'	N/A	2	DO	1.2 ppm / 0.6 ppm	18" / 24"		SA–2 2.0-3.2 ft. As above. 3.2-4.0 ft. Stiff, yellow-brown CLAYEY SILT, little coarse sand, trace fine gravel, slightly moist. (ML-CL)
		N/A	3	DO	0.1 ppm / 0.0 ppm	24" / 24"		SA–3 4.0-6.0 ft. Very stiff, brown, mottled yellow, CLAYEY SILT, trace fine gravel, moist. (ML-CL)
6		N/A	4	DO	0.0 ppm / 0.0 ppm	24" / 24"		SA–4 6.0-8.0 ft. Very stiff, brown, CLAYEY SILT, trace fine sand, trace fine gravel, moist. (ML-CL)
8								8.0-16.0 ft. AUGERED WITH NO SAMPLING
10								
12								
14								
16	16.0 FT. END OF BOREHOLE							
18								
20								

FIELD BORING LOG

DEPTH HOLE 8'	JOB NO. 093-89144	PROJECT NIAGARA TRANSFORMER/BCP SERVICES/NY			BORING NO. B-7
DEPTH SOIL DRILL 8'	GA INSP. AJN	DRILLING METHOD DIRECT PUSH			SHEET 1 of 1
DEPTH ROCK CORE N/A	WEATHER SUNNY	DRILLING CO. EARTH DIMENSIONS			SURFACE EL.
NO. DIST. 10 US. N/A	TEMP. 64° F	DRILL RIG GEOPROBE	DRILLER A. MORRIS		DATUM SITE
DEPTH WL. N/A	HRS. PROD. N/A	WT. SAMPLER HAMMER N/A	DROP N/A		STARTED 1040/9-21-09
TIME WL. N/A	HRS. DELAYED N/A	WT. CASING HAMMER N/A	DROP N/A		COMPLETED 1100/9-21-09

SAMPLE TYPES

A.S.	AUGER SAMPLE
C.S.	CHUNK SAMPLE
D.O.	DRIVE OPEN
D.S.	DENISON SAMPLE
P.S.	PITCHER SAMPLE
R.C.	ROCK CORE
S.T.	SLOTTED TUBE
T.O.	THIN-WALLED, OPEN
T.P.	THIN-WALLED, PISTON
W.S.	WASH SAMPLE

ABBREVIATIONS

BL	BLACK	M	MEDIUM	SA	SAMPLE		
BR	BROWN	MIC	MICACEOUS	SAT	SATURATED		
C	COARSE	MOT	MOTTLED	SD	SAND		
CA	CASING	NP	NON-PLASTIC	SI	SILT		
CL	CLAY	OG	ORANGE	SIY	SILTY		
CLY	CLAYEY	ORG	ORGANIC	SM	SOME		
F	FINE	PH	PRESSURE-HYDRAULIC	TR	TRACE		
FRAG	FRAGMENTS	PM	PRESSURE-MANUAL	WL	WATER LEVEL		
GL	GRAVEL	R	RED	WH	WEIGHT OF HAMMER		
LYD	LAYERED	RES	RESIDUAL	WR	WEIGHT OF RODS		
LI	LITTLE	RX	ROCK	Y	YELLOW		

SOIL DESCRIPTION – RANGE OF PROPORTION

"TRACE" – 0-5%
"LITTLE" – 5-12%
"SOME" – 12-30%
"AND" – 30-50%

CONSISTENCY

LS	LOOSE	S	SOFT
CP	COMPACT	FM	FIRM
DN	DENSE	ST	STIFF
V	VERY	H	HARD

ELEV. DEPTH	DESCRIPTION	BLOWS/FT.	SAMPLES NO.	SAMPLES TYPE	SAMPLES VOC CONTENT (P.I.D.) (UPPER/LOWER)	SAMPLES REC/ATT	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
0	FILL 0'–1.3'							SA–1 0.0-1.3 ft. Compact, gray-brown to dark brown SILT and fine SAND, little to some fine to coarse gravel, trace plant roots, moist. (ML-SM)
2	SILT TILL LAYER 1.3'–8.0'	N/A	1	DO	0.0 ppm 0.0 ppm 0.0 ppm 0.0 ppm	28"/48"		1.3-4.0 ft. Dense, brown SILT, some fine sand, trace coarse gravel, moist. (ML)
4		N/A	2	DO	0.0 ppm 0.0 ppm 0.0 ppm 0.0 ppm	33"/48"		SA–2 4.0-8.0 ft. Firm, red-brown to brown CLAYEY SILT to SILTY CLAY, trace coarse gravel, trace plant roots, moist. (CL-ML)
6								
8	8.0 FT. END OF BOREHOLE							

FIELD BORING LOG

DEPTH HOLE 8'	JOB NO. 093-89144	PROJECT NIAGARA TRANSFORMER/BCP SERVICES/NY			BORING NO. B-8
DEPTH SOIL DRILL 8'	GA INSP. AJN	DRILLING METHOD DIRECT PUSH			SHEET 1 of 1
DEPTH ROCK CORE N/A	WEATHER SUNNY	DRILLING CO. EARTH DIMENSIONS			SURFACE EL.
NO. DIST. 10 US. N/A	TEMP. 60° F	DRILL RIG GEOPROBE	DRILLER A. MORRIS		DATUM SITE
DEPTH WL. N/A	HRS. PROD. N/A	WT. SAMPLER HAMMER N/A	DROP N/A		STARTED 1015/9-21-09
TIME WL. N/A	HRS. DELAYED N/A	WT. CASING HAMMER N/A	DROP N/A		COMPLETED 1035/9-21-09

SAMPLE TYPES

A.S.	AUGER SAMPLE
C.S.	CHUNK SAMPLE
D.O.	DRIVE OPEN
D.S.	DENISON SAMPLE
P.S.	PITCHER SAMPLE
R.C.	ROCK CORE
S.T.	SLOTTED TUBE
T.O.	THIN-WALLED, OPEN
T.P.	THIN-WALLED, PISTON
W.S.	WASH SAMPLE

ABBREVIATIONS

BL	BLACK	M	MEDIUM	SA	SAMPLE
BR	BROWN	MIC	MICACEOUS	SAT	SATURATED
C	COARSE	MOT	MOTTLED	SD	SAND
CA	CASING	NP	NON-PLASTIC	SI	SILT
CL	CLAY	OG	ORANGE	SIY	SILTY
CLY	CLAYEY	ORG	ORGANIC	SM	SOME
F	FINE	PH	PRESSURE-HYDRAULIC	TR	TRACE
FRAG	FRAGMENTS	PM	PRESSURE-MANUAL	WL	WATER LEVEL
GL	GRAVEL	R	RED	WH	WEIGHT OF HAMMER
LYD	LAYERED	RES	RESIDUAL	WR	WEIGHT OF RODS
LI	LITTLE	RX	ROCK	Y	YELLOW

SOIL DESCRIPTION – RANGE OF PROPORTION

"TRACE" – 0–5%
"LITTLE" – 5–12%
"SOME" – 12–30%
"AND" – 30–50%

CONSISTENCY

LS	LOOSE	S	SOFT
CP	COMPACT	FM	FIRM
DN	DENSE	ST	STIFF
V	VERY	H	HARD

ELEV. DEPTH	DESCRIPTION	BLOWS/FT.	SAMPLES NO.	SAMPLES TYPE	SAMPLES VOC CONTENT (P.I.D.) (UPPER/LOWER)	SAMPLES REC/ATT	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
0	FILL 0'–1.5'				0.0 ppm			SA–1 0.0-1.5 ft. Loose, dark brown to black SILT and fine to coarse SAND, some coarse gravel as cinders/slag, trace plant material, moist. (ML-SM)
					0.0 ppm			1.5-4.0 ft. Compact, brown SILT and fine SAND, little fine to coarse gravel, moist. (ML-SM)
2	SILT TILL LAYER 1.5'–8.0'	N/A	1	DO	0.0 ppm	36" / 48"		
					0.0 ppm			
4					0.0 ppm			SA–2 4.0-8.0 ft. Dense, brown CLAYEY SILT, trace fine gravel, moist. (CL-ML)
		N/A	2	DO	0.0 ppm	42" / 48"		
6					0.0 ppm			
8	8.0 FT. END OF BOREHOLE							

FIELD BORING LOG

DEPTH HOLE 14'	JOB NO. 093-89144	PROJECT NIAGARA TRANSFORMER/BCP SERVICES/NY			BORING NO. B-9
DEPTH SOIL DRILL 14'	GA INSP. AJN/AL	DRILLING METHOD 4-1/4" ID Hollow Stem Augers			SHEET 1 of 1
DEPTH ROCK CORE N/A	WEATHER SUNNY	DRILLING CO. EARTH DIMENSIONS			SURFACE EL.
NO. DIST. 10 US. N/A	TEMP. 70° F	DRILL RIG CME-550	DRILLER A MORRIS		DATUM SITE
DEPTH WL. N/A	HRS. PROD. N/A	WT. SAMPLER HAMMER 140 lb.	DROP 30"		STARTED 1115/9-17-09
TIME WL. N/A	HRS. DELAYED N/A	WT. CASING HAMMER N/A	DROP N/A		COMPLETED 1200/9-17-09

SAMPLE TYPES

A.S.	AUGER SAMPLE
C.S.	CHUNK SAMPLE
D.O.	DRIVE OPEN
D.S.	DENISON SAMPLE
P.S.	PITCHER SAMPLE
R.C.	ROCK CORE
S.T.	SLOTTED TUBE
T.O.	THIN-WALLED, OPEN
T.P.	THIN-WALLED, PISTON
W.S.	WASH SAMPLE

ABBREVIATIONS

BL	BLACK	M	MEDIUM	SA	SAMPLE		
BR	BROWN	MIC	MICACEOUS	SAT	SATURATED		
C	COARSE	MOT	MOTTLED	SD	SAND		
CA	CASING	NP	NON-PLASTIC	SI	SILT		
CL	CLAY	OG	ORANGE	SIY	SILTY		
CLY	CLAYEY	ORG	ORGANIC	SM	SOME		
F	FINE	PH	PRESSURE-HYDRAULIC	TR	TRACE		
FRAG	FRAGMENTS	PM	PRESSURE-MANUAL	WL	WATER LEVEL		
GL	GRAVEL	R	RED	WH	WEIGHT OF HAMMER		
LYD	LAYERED	RES	RESIDUAL	WR	WEIGHT OF RODS		
LI	LITTLE	RX	ROCK	Y	YELLOW		

SOIL DESCRIPTION – RANGE OF PROPORTION

"TRACE" – 0-5%
"LITTLE" – 5-12%
"SOME" – 12-30%
"AND" – 30-50%

CONSISTENCY

LS	LOOSE	S	SOFT
CP	COMPACT	FM	FIRM
DN	DENSE	ST	STIFF
V	VERY	H	HARD

ELEV. DEPTH	DESCRIPTION	BLOWS/FT.	SAMPLES NO.	TYPE	VOC CONTENT (P.I.D.) (UPPER/LOWER)	REC/ATT	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
0	FILL 0'-2.6'	N/A	1	DO	0.1 ppm / 0.3 ppm	12" / 24"		SA-1 0.0-0.5 ft. Loose, brown-gray to gray GRAVEL and fine to coarse SAND, slightly moist. (GP-SM)
								0.5-1.0 ft. Concrete obstruction.
								1.0-2.0 ft. Compact, dark brown SILT and fine SAND, little fine to coarse gravel, moist. (SM-ML)
2		N/A	2	DO	0.2 ppm / 0.8 ppm	20" / 24"		SA-2 2.0-2.6 ft. As above.
								2.6-4.0 ft. Very stiff, brown, CLAYEY SILT to SILT, trace to little fine sand, trace plant roots, moist. (ML-CL)
	SILT TILL LAYER 2.6'-8.0'							
4		N/A	3	DO	0.0 ppm / 0.0 ppm	21" / 24"		SA-3 4.0-4.8 ft. Compact, brown, SILT, some fine sand, moist. (ML)
								4.8-6.0 ft. Compact, tan fine to medium SAND, moist. (SM)
6		N/A	4	DO	0.9 ppm / 1.2 ppm	24" / 24"		SA-4 6.0-8.0 ft. As above. (ML)
8								8.0-14.0 ft. AUGERED WITH NO SAMPLING
10								
12								
14	14.0 FT. END OF BOREHOLE							
16								
18								
20								

FIELD BORING LOG

DEPTH HOLE 14'	JOB NO. 093-89144	PROJECT NIAGARA TRANSFORMER/BCP SERVICES/NY			BORING NO. B-10
DEPTH SOIL DRILL 14'	GA INSP. AJN/AL	DRILLING METHOD 4-1/4" ID Hollow Stem Augers			SHEET 1 of 1
DEPTH ROCK CORE N/A	WEATHER P.CLOUDY	DRILLING CO. EARTH DIMENSIONS			SURFACE EL.
NO. DIST. 10 US. N/A	TEMP. 70° F	DRILL RIG CME-550	DRILLER A MORRIS		DATUM SITE
DEPTH WL. N/A	HRS. PROD. N/A	WT. SAMPLER HAMMER 140 lb.	DROP 30"		STARTED 1400/9-17-09
TIME WL. N/A	HRS. DELAYED N/A	WT. CASING HAMMER N/A	DROP N/A		COMPLETED 1450/9-17-09

SAMPLE TYPES

A.S.	AUGER SAMPLE
C.S.	CHUNK SAMPLE
D.O.	DRIVE OPEN
D.S.	DENISON SAMPLE
P.S.	PITCHER SAMPLE
R.C.	ROCK CORE
S.T.	SLOTTED TUBE
T.O.	THIN-WALLED, OPEN
T.P.	THIN-WALLED, PISTON
W.S.	WASH SAMPLE

ABBREVIATIONS

BL	BLACK	M	MEDIUM	SA	SAMPLE
BR	BROWN	MIC	MICACEOUS	SAT	SATURATED
C	COARSE	MOT	MOTTLED	SD	SAND
CA	CASING	NP	NON-PLASTIC	SI	SILT
CL	CLAY	OG	ORANGE	SIY	SILTY
CLY	CLAYEY	ORG	ORGANIC	SM	SOME
F	FINE	PH	PRESSURE-HYDRAULIC	TR	TRACE
FRAG	FRAGMENTS	PM	PRESSURE-MANUAL	WL	WATER LEVEL
GL	GRAVEL	R	RED	WH	WEIGHT OF HAMMER
LYD	LAYERED	RES	RESIDUAL	WR	WEIGHT OF RODS
LI	LITTLE	RX	ROCK	Y	YELLOW

SOIL DESCRIPTION – RANGE OF PROPORTION

"TRACE" – 0-5%
"LITTLE" – 5-12%
"SOME" – 12-30%
"AND" – 30-50%

CONSISTENCY

LS	LOOSE	S	SOFT
CP	COMPACT	FM	FIRM
DN	DENSE	ST	STIFF
V	VERY	H	HARD

ELEV. DEPTH	DESCRIPTION	BLOWS/FT.	SAMPLES NO.	TYPE	VOC CONTENT (P.I.D.) (UPPER/LOWER)	REC/ATT	DEPTH	SAMPLE DESCRIPTION AND BORING NOTES
0								SA-1 0.0-0.5 ft. Compact, gray GRAVEL and fine SAND, little silt, little plant roots, moist. (GP-SM)
	FILL 0'-3.2'	N/A	1	DO	0.2 ppm / 1.1 ppm	18" / 24"		0.5-2.0 ft. Compact, dark brown to black SILT and fine SAND, some fine to coarse gravel, little organics moist. (SM-ML)
2								SA-2 2.0-3.2 ft. Very stiff, dark brown to black CLAYEY SILT, little fine sand, trace fine to coarse gravel, trace plant roots, moist. (ML-CL)
		N/A	2	DO	0.5 ppm / 0.1 ppm	22" / 24"		3.2-4.0 ft. Dense, yellow-brown SILT, some fine sand, trace fine to coarse gravel, trace clay, moist. (ML)
	SILT TILL LAYER 3.2'-8.0'							
4								SA-3 4.0-4.8 ft. Very stiff, yellow-brown to brown CLAYEY SILT to SILTY CLAY, trace fine sand, trace plant roots, moist. (ML-CL)
		N/A	3	DO	0.0 ppm / 0.0 ppm	24" / 24"		
6								SA-4 6.0-8.0 ft. Stiff, yellow-brown to brown, CLAYEY SILT to SILTY CLAY, slightly plastic, trace fine sand, moist. (ML-CL)
		N/A	4	DO	0.2 ppm / 0.0 ppm	24" / 24"		
8								8.0-14.0 ft. AUGERED WITH NO SAMPLING
10								
12								
14	14.0 FT. END OF BOREHOLE							
16								
18								
20								

MONITORING WELL INSTALLATION LOG

JOB NO. 093-89144.02 PROJECT NIAGARA TRANSFORMER BCP SERVICES / NY WELL NO. MW-1 SHEET 1 of 1

GA INSP. AJN DRILLING METHOD 4 1/4" I.D. HOLLOW STEM AUGERS GROUND ELEV. _____ WATER DEPTH N/A

WEATHER SUNNY DRILLING COMPANY EARTH DIMENSIONS RISER ELEV. _____ DATE/TIME N/A

TEMP. 60° F DRILL RIG CME-550 DRILLER A. MORRIS STARTED 0930 / 9-17-09 (TIME / DATE) COMPLETED 1100 / 9-17-09 (TIME / DATE)

LOCATION / COORDINATES _____

MATERIALS INVENTORY

WELL CASING 2.0 in. dia. 13.0 l.f. WELL SCREEN 2.0 in. dia. 10 l.f. BENTONITE SEAL 3/8" BENTONITE CHIPS

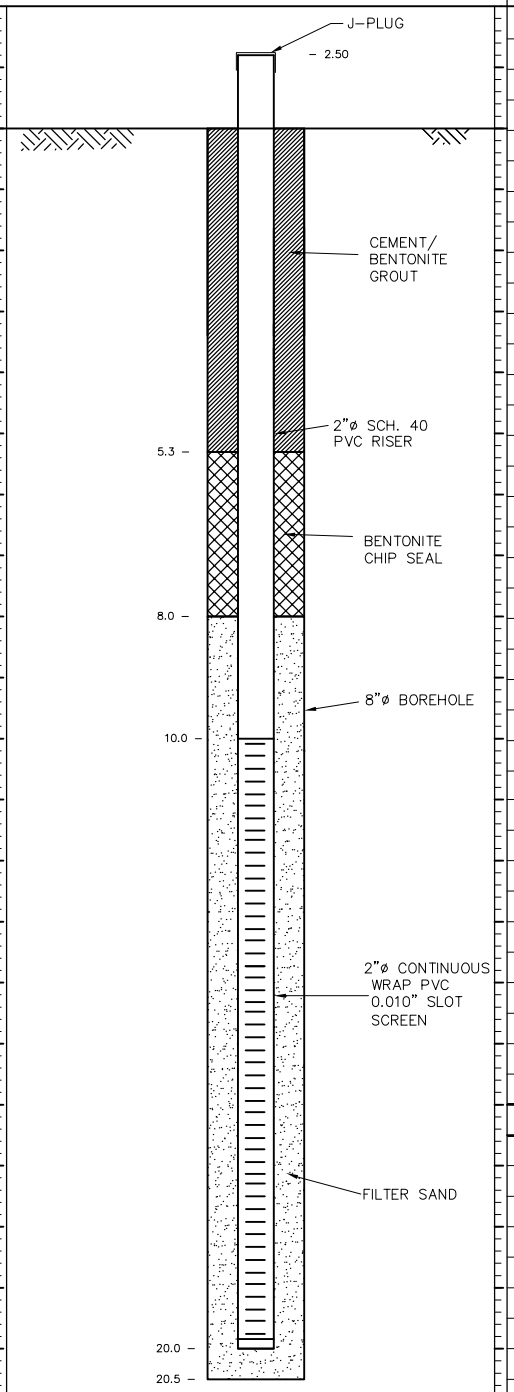
CASING TYPE SCH. 40 PVC SCREEN TYPE CONTINUOUS WRAP PVC INSTALLATION METHOD POUR THROUGH AUGERS

JOINT TYPE FLUSH THREADED SLOT SIZE 0.010" FILTER PACK QTY. 2.5 BAGS

GROUT QUANTITY ——— CENTRALIZERS NOT USED FILTER PACK TYPE #00N QUARTZ SAND

GROUT TYPE CEMENT/BENTONITE DRILLING MUD TYPE NOT USED INSTALLATION METHOD TREMIE

ELEV./DEPTH	SOIL/ROCK DESCRIPTION
1456.40	GROUND SURFACE
0.0	FILL 0'–2.8'
	CLAY TILL UNIT 2.8'–8.0'
5.0	
	AUGERED WITH NO SAMPLING 8.0'–20.0'
10.0	
15.0	
20.0	END OF BORING 20.5' BGS



INSTALLATION NOTES

AUGERED WITH 4 1/4 I.D. HOLLOW STEM AUGER TO 20.0 FT. BELOW GROUND SURFACE (BGS). SAMPLED 0.0–20.5 FT BGS. SAND POURED THROUGH AUGERS 20.5–20.0 FT BGS. WELL MATERIALS PLACED IN BOREHOLE USING 10 FT. OF WELL SCREEN, END CAP, 13.0 FT. OF WELL RISER AND SLIP TOP CAP FOR OVERALL LENGTH OF 23.0 FT. WELL MATERIALS PLACED TO 20.0 FT. BGS WITH 2.5 FT. STICKUP. SAND POURED THROUGH AUGERS 20.0 – 8.0 FT. BGS WHILE REMOVING AUGERS AT 0.5–1.0 FT. INCREMENTS. BENTONITE CHIP SEAL PLACED 8.0–5.3 FT. BGS. CEMENT/ BENTONITE GROUT ADDED 5.3–0.0 FT. BGS. REMAINING AUGERS REMOVED.

WELL DEVELOPMENT NOTES

DATE DEVELOPED: 10/8/09

DEVELOPMENT METHOD:
STAINLESS STEEL BAILER

VOLUME PURGED: 8.75 GALS.

MONITORING WELL INSTALLATION LOG

JOB NO. 093-89144.02 PROJECT NIAGARA TRANSFORMER BCP SERVICES / NY WELL NO. MW-2 SHEET 1 of 1

GA INSP. AJN DRILLING METHOD 4 1/4" I.D. HOLLOW STEM AUGERS GROUND ELEV. _____ WATER DEPTH N/A

WEATHER CLOUDY DRILLING COMPANY EARTH DIMENSIONS RISER ELEV. _____ DATE/TIME N/A

TEMP. 64° F DRILL RIG CME-550 DRILLER A. MORRIS STARTED 1030 / 9-18-09 (TIME / DATE) COMPLETED 1145 / 9-18-09 (TIME / DATE)

LOCATION / COORDINATES _____

MATERIALS INVENTORY

WELL CASING 2.0 in. dia. 8.5 l.f. WELL SCREEN 2.0 in. dia. 10 l.f. BENTONITE SEAL 3/8" BENTONITE CHIPS

CASING TYPE SCH. 40 PVC SCREEN TYPE CONTINUOUS WRAP PVC INSTALLATION METHOD POUR THROUGH AUGERS

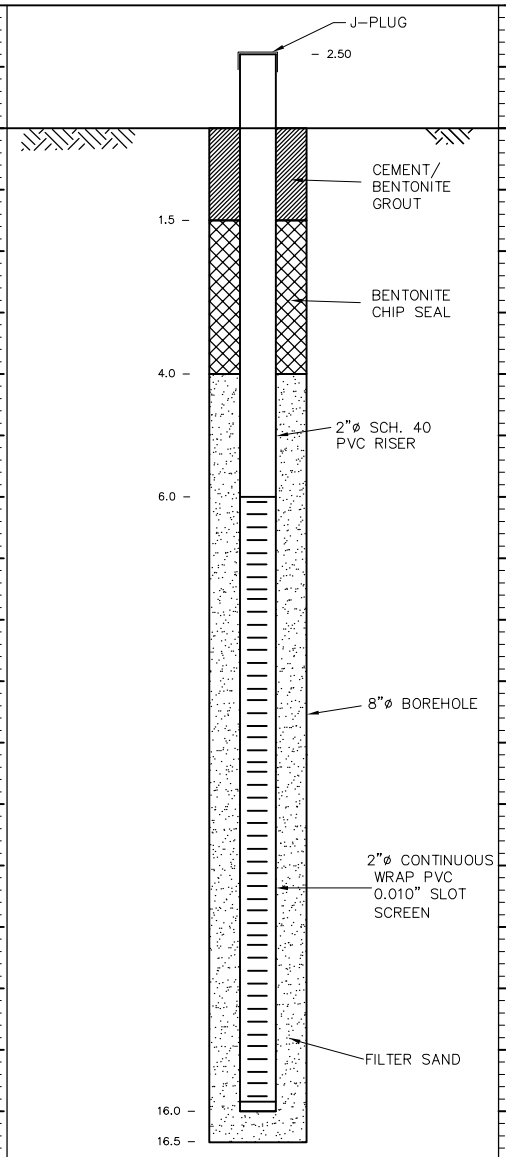
JOINT TYPE FLUSH THREADED SLOT SIZE 0.010" FILTER PACK QTY. 2.5 BAGS

GROUT QUANTITY ——— CENTRALIZERS NOT USED FILTER PACK TYPE #00N QUARTZ SAND

GROUT TYPE CEMENT/BENTONITE DRILLING MUD TYPE NOT USED INSTALLATION METHOD TREMIE

ELEV./DEPTH	SOIL/ROCK DESCRIPTION
1456.40	GROUND SURFACE
0.0	FILL 0'–2.4'
	CLAY TILL UNIT 2.4'–8.0'
5.0	
	AUGERED WITH NO SAMPLING 8.0'–20.0'
10.0	
15.0	
	END OF BORING 16.5' BGS

WELL SKETCH



INSTALLATION NOTES

AUGERED WITH 4 1/4 I.D. HOLLOW STEM AUGER TO 16.0 FT. BELOW GROUND SURFACE (BGS). SAMPLED 0.0–16.5 FT BGS. SAND POURED THROUGH AUGERS 16.5–16.0 FT BGS. WELL MATERIALS PLACED IN BOREHOLE USING 10 FT. OF WELL SCREEN, END CAP, 8.5 FT. OF WELL RISER AND J-PLUG CAP FOR OVERALL LENGTH OF 18.5 FT. WELL MATERIALS PLACED TO 16.0 FT. BGS WITH 2.5 FT. STICKUP. SAND POURED THROUGH AUGERS 16.0 – 4.0 FT. BGS WHILE REMOVING AUGERS AT 0.5–1.0 FT. INCREMENTS. BENTONITE CHIP SEAL PLACED 4.0–1.5 FT. BGS. CEMENT/ BENTONITE GROUT ADDED 1.5–0.0 FT. BGS. REMAINING AUGERS REMOVED.

WELL DEVELOPMENT NOTES

DATE DEVELOPED: 10/8/09

DEVELOPMENT METHOD:
STAINLESS STEEL BAILER

VOLUME PURGED: 18.5 GALS.

Golder Associates

MONITORING WELL INSTALLATION LOG

JOB NO. 093-89144.02 PROJECT NIAGARA TRANSFORMER BCP SERVICES / NY WELL NO. MW-3 SHEET 1 of 1

GA INSP. AJN DRILLING METHOD 4 1/4" I.D. HOLLOW STEM AUGERS GROUND ELEV. _____ WATER DEPTH N/A

WEATHER CLOUDY DRILLING COMPANY EARTH DIMENSIONS RISER ELEV. _____ DATE/TIME N/A

TEMP. 64° F DRILL RIG CME-550 DRILLER A. MORRIS STARTED 1230 / 9-18-09 (TIME / DATE) COMPLETED 1345 / 9-18-09 (TIME / DATE)

LOCATION / COORDINATES _____

MATERIALS INVENTORY

WELL CASING 2.0 in. dia. 8.5 l.f. WELL SCREEN 2.0 in. dia. 10 l.f. BENTONITE SEAL 3/8" BENTONITE CHIPS

CASING TYPE SCH. 40 PVC SCREEN TYPE CONTINUOUS WRAP PVC INSTALLATION METHOD POUR THROUGH AUGERS

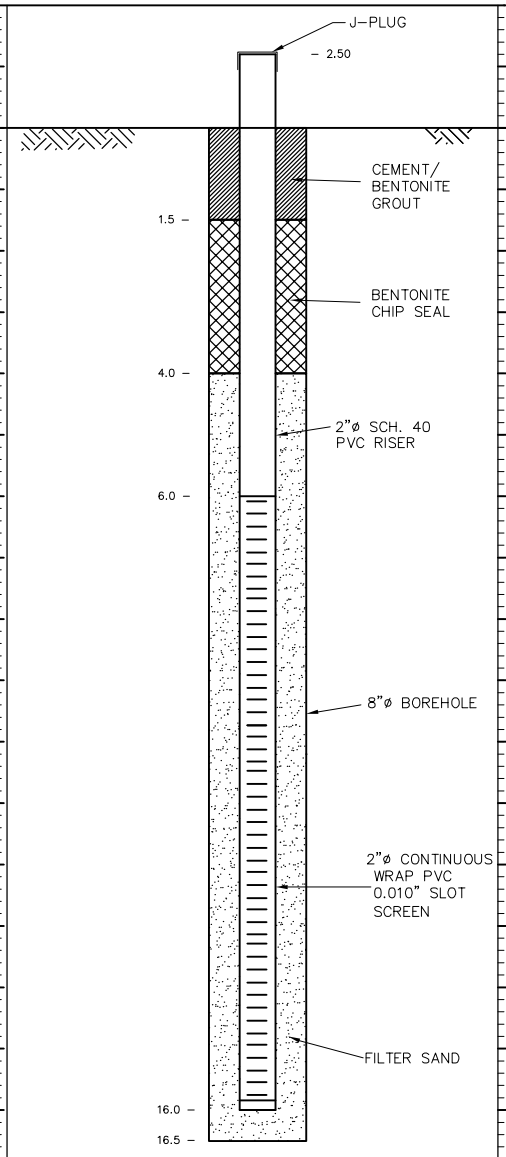
JOINT TYPE FLUSH THREADED SLOT SIZE 0.010" FILTER PACK QTY. 1.5 BAGS

GROUT QUANTITY ——— CENTRALIZERS NOT USED FILTER PACK TYPE #00N QUARTZ SAND

GROUT TYPE CEMENT/BENTONITE DRILLING MUD TYPE NOT USED INSTALLATION METHOD TREMIE

ELEV./DEPTH	SOIL/ROCK DESCRIPTION
1456.40	GROUND SURFACE
0.0	FILL 0'–3.2'
5.0	SILT TILL UNIT 3.2'–8.0'
10.0	AUGERED WITH NO SAMPLING 8.0'–20.0'
15.0	
	END OF BORING 16.5' BGS
20.0	

WELL SKETCH



INSTALLATION NOTES

AUGERED WITH 4 1/4 I.D. HOLLOW STEM AUGER TO 16.0 FT. BELOW GROUND SURFACE (BGS). SAMPLED 0.0–16.5 FT BGS. SAND POURED THROUGH AUGERS 16.5–16.0 FT BGS. WELL MATERIALS PLACED IN BOREHOLE USING 10 FT. OF WELL SCREEN, END CAP, 8.5 FT. OF WELL RISER AND J-PLUG CAP FOR OVERALL LENGTH OF 18.5 FT. WELL MATERIALS PLACED TO 16.0 FT. BGS WITH 2.5 FT. STICKUP. SAND POURED THROUGH AUGERS 16.0 – 4.0 FT. BGS WHILE REMOVING AUGERS AT 0.5–1.0 FT. INCREMENTS. BENTONITE CHIP SEAL PLACED 4.0–1.5 FT. BGS. CEMENT/ BENTONITE GROUT ADDED 1.5–0.0 FT. BGS. REMAINING AUGERS REMOVED.

WELL DEVELOPMENT NOTES

DATE DEVELOPED: 10/8/09

DEVELOPMENT METHOD:
STAINLESS STEEL BAILER

VOLUME PURGED: NO RECOVERY

Golder Associates

MONITORING WELL INSTALLATION LOG

JOB NO. 093-89144.02 PROJECT NIAGARA TRANSFORMER BCP SERVICES / NY WELL NO. MW-4 SHEET 1 of 1

GA INSP. AJN DRILLING METHOD 4 1/4" I.D. HOLLOW STEM AUGERS GROUND ELEV. _____ WATER DEPTH N/A

WEATHER SUNNY DRILLING COMPANY EARTH DIMENSIONS RISER ELEV. _____ DATE/TIME N/A

TEMP. 70° F DRILL RIG CME-550 DRILLER A. MORRIS STARTED 1200 / 9-17-09 (TIME / DATE) COMPLETED 1330 / 9-17-09 (TIME / DATE)

LOCATION / COORDINATES _____

MATERIALS INVENTORY

WELL CASING 2.0 in. dia. 9.5 l.f. WELL SCREEN 2.0 in. dia. 7 l.f. BENTONITE SEAL 3/8" BENTONITE CHIPS

CASING TYPE SCH. 40 PVC SCREEN TYPE CONTINUOUS WRAP PVC INSTALLATION METHOD POUR THROUGH AUGERS

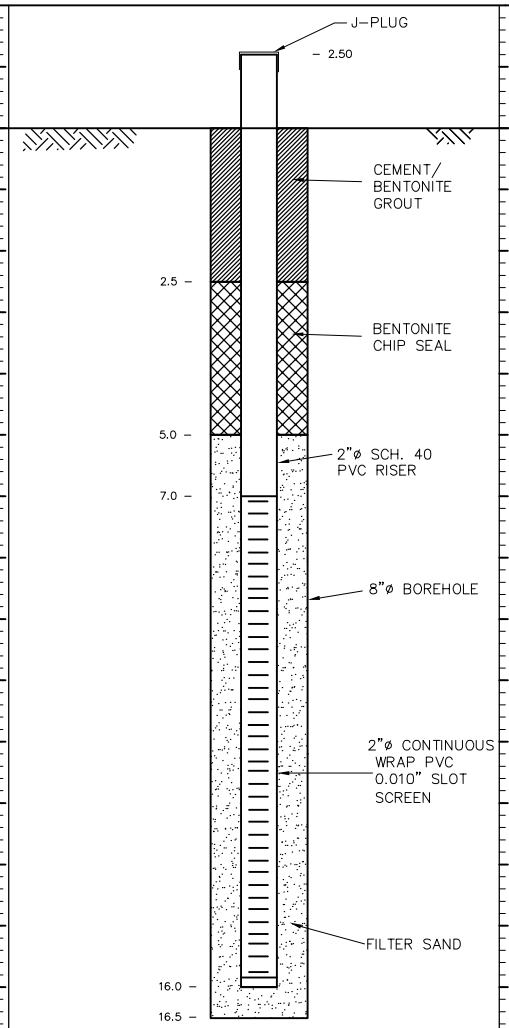
JOINT TYPE FLUSH THREADED SLOT SIZE 0.010" FILTER PACK QTY. 1.5 BAGS

GROUT QUANTITY ——— CENTRALIZERS NOT USED FILTER PACK TYPE #00N QUARTZ SAND

GROUT TYPE CEMENT/BENTONITE DRILLING MUD TYPE NOT USED INSTALLATION METHOD TREMIE

ELEV./DEPTH	SOIL/ROCK DESCRIPTION
1456.40	GROUND SURFACE
0.0	FILL 0'–2.6'
5.0	SILT TILL UNIT 2.6'–8.0'
10.0	AUGERED WITH NO SAMPLING 8.0'–20.0'
15.0	END OF BORING 16.5' BGS
20.0	

WELL SKETCH



INSTALLATION NOTES

AUGERED WITH 4 1/4 I.D. HOLLOW STEM AUGER TO 14.0 FT. BELOW GROUND SURFACE (BGS). SAMPLED 0.0–14.5 FT BGS. SAND POURED THROUGH AUGERS 14.5–14.0 FT BGS. WELL MATERIALS PLACED IN BOREHOLE USING 7 FT. OF WELL SCREEN, END CAP, 9.5 FT. OF WELL RISER AND J-PLUG CAP FOR OVERALL LENGTH OF 16.5 FT. WELL MATERIALS PLACED TO 14.0 FT. BGS WITH 2.5 FT. STICKUP. SAND POURED THROUGH AUGERS 14.0 – 5.0 FT. BGS WHILE REMOVING AUGERS AT 0.5–1.0 FT. INCREMENTS. BENTONITE CHIP SEAL PLACED 5.0–2.5 FT. BGS. CEMENT/ BENTONITE GROUT ADDED 2.5–0.0 FT. BGS. REMAINING AUGERS REMOVED.

WELL DEVELOPMENT NOTES

DATE DEVELOPED: 10/8/09

DEVELOPMENT METHOD:
STAINLESS STEEL BAILER

VOLUME PURGED: 9.5 GALS.

MONITORING WELL INSTALLATION LOG

JOB NO. 093-89144.02 PROJECT NIAGARA TRANSFORMER BCP SERVICES / NY WELL NO. MW-5 SHEET 1 of 1

GA INSP. AJN DRILLING METHOD 4 1/4" I.D. HOLLOW STEM AUGERS GROUND ELEV. _____ WATER DEPTH N/A

WEATHER P. CLOUDY DRILLING COMPANY EARTH DIMENSIONS RISER ELEV. _____ DATE/TIME N/A

TEMP. 70° F DRILL RIG CME-550 DRILLER A. MORRIS STARTED 1450 / 9-17-09 (TIME / DATE) COMPLETED 1600 / 9-17-09 (TIME / DATE)

LOCATION / COORDINATES _____

MATERIALS INVENTORY

WELL CASING 2.0 in. dia. 9.5 l.f. WELL SCREEN 2.0 in. dia. 7 l.f. BENTONITE SEAL 3/8" BENTONITE CHIPS

CASING TYPE SCH. 40 PVC SCREEN TYPE CONTINUOUS WRAP PVC INSTALLATION METHOD POUR THROUGH AUGERS

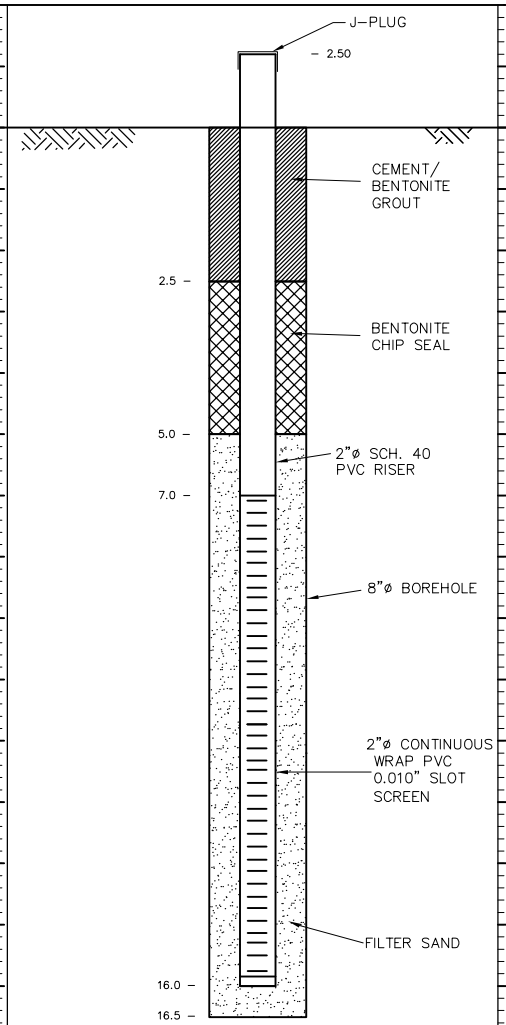
JOINT TYPE FLUSH THREADED SLOT SIZE 0.010" FILTER PACK QTY. 1.5 BAGS

GROUT QUANTITY ——— CENTRALIZERS NOT USED FILTER PACK TYPE #00N QUARTZ SAND

GROUT TYPE CEMENT/BENTONITE DRILLING MUD TYPE NOT USED INSTALLATION METHOD TREMIE

ELEV./DEPTH	SOIL/ROCK DESCRIPTION
1456.40	GROUND SURFACE
0.0	FILL 0'–3.2'
5.0	SILT TILL UNIT 3.2'–8.0'
10.0	AUGERED WITH NO SAMPLING 8.0'–20.0'
15.0	END OF BORING 16.5' BGS
20.0	

WELL SKETCH



INSTALLATION NOTES

AUGERED WITH 4 1/4 I.D. HOLLOW STEM AUGER TO 14.0 FT. BELOW GROUND SURFACE (BGS). SAMPLED 0.0–14.5 FT BGS. SAND POURED THROUGH AUGERS 14.5–14.0 FT BGS. WELL MATERIALS PLACED IN BOREHOLE USING 7 FT. OF WELL SCREEN, END CAP, 9.5 FT. OF WELL RISER AND J-PLUG CAP FOR OVERALL LENGTH OF 16.5 FT. WELL MATERIALS PLACED TO 14.0 FT. BGS WITH 2.5 FT. STICKUP. SAND POURED THROUGH AUGERS 14.0 – 5.0 FT. BGS WHILE REMOVING AUGERS AT 0.5–1.0 FT. INCREMENTS. BENTONITE CHIP SEAL PLACED 5.0–2.5 FT. BGS. CEMENT/ BENTONITE GROUT ADDED 2.5–0.0 FT. BGS. REMAINING AUGERS REMOVED.

WELL DEVELOPMENT NOTES

DATE DEVELOPED: 10/8/09

DEVELOPMENT METHOD:
STAINLESS STEEL BAILER

VOLUME PURGED: NO RECOVERY

WELL DEVELOPMENT FIELD RECORD

JOB NAME: NTC, 1755 Dale Rd., BCP
JOB NO. 093-89144-02 WELL NO. MW-1
DEVELOPED BY: Anthony Notaro
DATE OF INSTALL. 9-17-09 SHEET 1 OF 1
STARTED DEVEL. 10-8-09 / 12:00 (DATE / TIME)
COMPLETED DEVEL. 10-8-09 / 1330 (DATE / TIME)
W.L. BEFORE DEVEL. 10.04 / 10-8-09 / 10:37 (DEPTH / DATE / TIME)
AFTER DEVEL. ____ / ____ / ____ (DEPTH / DATE / TIME)
WELL DEPTH: BEFORE DEVEL. 22.24
AFTER DEVEL. ____ WELL DIA. (In) 2
STANDING WATER COLUMN (FT.) 12.20
STANDING WELL VOLUME 1.99 (x 4.97) gal.
SCREEN LENGTH 10'
DRILLING WATER LOSS ____ gal.

DATE/TIME	VOLUME REMOVED (GALS)	FIELD PARAMETERS				REMARKS
		SPEC. COND. (umhos/cm)	TEMP. (°F)	pH (s.u.)	OTHER	
10 8 09 12:09	0.25	801	13.4	7.60		clear
10 8 09 12:12	2.25	731	13.7	7.73		sl turbid, lt brown color
10 8 09 12:16	2.5	801	13.4	7.61		as above
10 8 09 12:30	2.5	793	14.6	7.76		turbid, dk brown color
			14.9	7.86		as above
10 8 09 1:15	1.25	769				
	8.75	= TOTAL VOLUME REMOVED (gal.)				

DEVELOPMENT METHOD:

NOTES: 12:30 wait for recovery

WELL DEVELOPMENT FIELD RECORD

JOB NAME: NTC 1755 Oak Rd, BCP
DEVELOPED BY: Anthony Notaro
STARTED DEVEL.: 10/8/09 (DATE) / 9:20 (TIME)
W.L. BEFORE DEVEL.: 4.16 (DEPTH) / 10/8/09 (DATE) / 9:20 (TIME)
WELL DEPTH: BEFORE DEVEL.: 18.87
STANDING WATER COLUMN (FT.): 14.71
SCREEN LENGTH: 10'

JOB NO.: 093-89144-02 WELL NO.: MW-2
DATE OF INSTALL.: 9-18-09 SHEET: 1 OF 1
COMPLETED DEVEL.: 10/8/09 (DATE) / 1430 (TIME)
AFTER DEVEL.: / (DEPTH) / / (DATE) / (TIME)
AFTER DEVEL.: 18.87 WELL DIA. (In): 2
STANDING WELL VOLUME: 3.40 (7.19) gal.
DRILLING WATER LOSS: gal.

DATE/TIME	VOLUME REMOVED (GALS)	FIELD PARAMETERS: SPEC. COND. (umhos/cm)	TEMP. (°F)	pH (s.u.)	OTHER	REMARKS
10.8.09 9:29	—	1836	11.7	7.48		clear
10.8.09 9:37	2.5	1665	10.9	7.27		turbid; brown-gray color
10.8.09 9:46	2.5	1625	11.1	7.18		turbid; brown-gray color
10.8.09 9:59	3.0	1623	11.2	7.27		turbid; brown-gray color
10.8.09 10:13	2.0	1590	11.2	7.37		turbid; brown-lt gray color
10.8.09 11:16	2.5	1563	13.0	7.32		turbid; brown-lt gray color
10.8.09 1:03	3.5	1720	13.3	7.43		as above
10.8.09 2:25	2.5	1463	13.4	7.48		
	18.5	= TOTAL VOLUME REMOVED (gal.)				

DEVELOPMENT METHOD: 1726 HL @ 230

NOTES: 10:15 wait 1 hour for recovery

WELL DEVELOPMENT FIELD RECORD

JOB NAME: NTC, 1755 Dale Rd, BCP
DEVELOPED BY: Anthony Notaro
STARTED DEVEL.: 10.8.09 / 11 30 (DATE / TIME)
W.L. BEFORE DEVEL.: 11.07 / 10.8.09 / 10 27 (DEPTH / DATE / TIME)
WELL DEPTH: BEFORE DEVEL.: 16.57
STANDING WATER COLUMN (FT.): 5.50
SCREEN LENGTH: 10'

JOB NO.: 093-89144-02 WELL NO.: MW-4
DATE OF INSTALL.: 9-17-09 SHEET: 1 OF 1
COMPLETED DEVEL.: 10.8.09 / 1430 (DATE / TIME)
AFTER DEVEL.: / / (DEPTH / DATE / TIME)
AFTER DEVEL.: 16.57 WELL DIA. (In): 2
STANDING WELL VOLUME: 0.90 (2.69) gal.
DRILLING WATER LOSS: gal.

DATE/TIME	VOLUME REMOVED (GALS)	FIELD PARAMETERS: SPEC. COND. (umhos/cm)	TEMP. (°F)	pH (s.u.)	OTHER	REMARKS
10.8.09 11:35	-	1187	13.4	7.39		turbid, lt brown-gray color
10.8.09 11:40	3.0	1132	12.9	7.26		turbid, dk. brown-gray color
10.8.09 11:47	1.5	1103	13.8	7.31		as above
10.8.09 12:47	2.5	1165	14.1	7.35		turbid, dk brown/brown color
10.8.09 2:09	2.5	1160	13.7	7.51		as above
	9.5	= TOTAL VOLUME REMOVED (gal.)				

DEVELOPMENT METHOD: WL 11.67 10.8 @ 210

NOTES: 11:50 wait for recovery

APPENDIX C
RI / IRM ANALYTICAL LABORATORY REPORTS

PROVIDED IN ELECTRONIC FORMAT ON CD-ROM

APPENDIX D
DATA USABILITY SUMMARY REPORT (DUSR)

Data Validation Services

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

Phone 518-251-4429
Facsimile 518-251-4428

January 08, 2010

Patrick Martin
Golder Associates Inc.
2221 Niagara Falls Blvd
Niagara Falls, NY 14304

RE: Validation Review of the Niagara Transformer Site Analytical Data Packages
TAL-Buffalo SDG Nos. RSI0643 and RSJ0665

Dear Mr. Martin:

Review has been completed for the data packages generated by TestAmerica Laboratories that pertain to samples collected between September 17, 2009 and October 9, 2009 at the Niagara Transformer site. Three aqueous samples, an aqueous field duplicate, and three soil samples were processed for TCL volatiles, TCL semivolatiles, TCL pesticides, TCL PCBs, and TAL metals/CN. The aqueous samples were also processed for turbidity. Seven soil samples were processed for TCL volatiles, TCL semivolatiles, TCL pesticides, and TAL metals/CN. Nineteen soil samples were processed for TCL PCBs. A trip blank was processed with the aqueous samples. The analytical methodologies utilized are those of the USEPA SW846.

The data packages submitted contained full deliverables for validation, but this report is generated from review of the QC summary form information, with review of sample raw data, and review of selected associated QC raw data. Full validation has not been performed. However, the reported summary forms have been reviewed for application of validation qualifiers, per the project QAPP, including guidance from the USEPA National Functional Guidelines for CLP Data Review, as affects the usability of the sample data. The following items were reviewed:

* Laboratory Narrative Discussion
* Custody Documentation
* Holding Times (per NYSDEC 1995 ASP)
* Surrogate and Internal Standard Recoveries
* Matrix Spike Recoveries/Duplicate Correlations
* Aqueous Field Duplicate Correlations
* Preparation/Calibration Blanks
* Control Spike/Laboratory Control Samples (LCSs)
* Instrumental Tunes and IDLs
* Calibration/CRI/CRA Standards
* ICP Interference Check Standards
* ICP Serial Dilution Correlations
* Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for this level of review.

In summary, most of the sample results are usable either as reported, or usable with qualification as estimated or edit to non-detection. However, the following issues are noted:

- Results for one volatile analyte are rejected in two soil samples.
- Reporting limits are significantly elevated in most of the semivolatile soil samples due to excessive dilution.
- Many of the pesticide reported detections have been qualified, and are suspect as being a result of interferences from the Aroclor constituents.

Copies of the sample summaries and laboratory "case narratives" are attached to this text, and should be reviewed in conjunction with this report. Included with this report are sample results forms with the recommended validation qualifiers applied in red.

The following text discusses quality issues of concern.

General

The laboratory case narrative is not project-specific, does not discuss the issues noted in the data package, does not contain the required "verbatim" statement, and is not signed.

Field Duplicate

The aqueous blind field duplicate of MW-1 shows good correlations for all analytes except turbidity (89%RPD). The results for that analyte in the parent sample and its duplicate have been qualified as estimated in value. No soil field duplicate evaluation was performed.

Chain-of-Custody

The required analyses for three samples were not annotated on the custody form. There is no discussion provided in the data package as to how that issue was resolved. One of those samples was processed for all analytes except the PCBs, and two were processed only for PCBs.

The down-arrow was omitted from the collection date entries for 09/17/09.

TCL Volatiles by EPA8260B

The trip blank was collected about seven weeks prior to sample collection, and therefore the results of that blank are not usable. In that there are no detections of target analytes in the associated samples, sample reported results are unaffected.

Detected results for methylene chloride and chlorobenzene that are flagged as "B" in the samples are considered external contamination, as evidenced by presence in associated method blanks. Those results are edited to nondetection ("U").

Samples B-9 and B-10 produced slightly low responses for internal standard d5-chlorobenzene (both at 49%, below the 50% limit). The samples should have been reanalyzed, especially since the chromatograms show no matrix interferences, and since those samples and the matrix spikes of B-10 (and no other project samples) were all processed at the end of an analytical sequence. The matrix spikes of B-10 show recoveries of 53% for that compound, within the acceptance range. Instrument performance contribution to the low responses should have been ruled out by the reanalyses. Based upon the instrument sensitivity, the minimal deviation is not likely to have affected the ability to detect concentrations at the reported limits. There are no detected analytes associated with that internal standard. No qualification is made.

The sample matrix spikes of MW-2 show acceptable accuracy and precision for the five compounds that were evaluated.

Soil matrix spikes were performed on B-6 and B-10. Both sets of these spikes show consistently low recoveries of most of the target analytes, typically between 50% and 60% for B-10, and 60% to 70% for B-6. Because the recoveries of the deuterated analog surrogate standards for 1,2-dichloroethane and toluene (which should perform identically to their undeuterated counterparts) show excellent recoveries (94% to 116%, versus 49% to 60% for the undeuterated targets), erroneous laboratory spike process/ solution is suspected. No qualifications to the data are made based on those recoveries. Vinyl acetate failed to recover above 6% in those spikes, and therefore the results for that compound are rejected in those parent samples, and should be considered suspect in all project soil samples.

All calibrations standards show responses within validation guidelines, with the exception of that for 1,1,2-trichloroethane (22%D) in the continuing calibration standard associated with B-8. The result for that compound in B-8 is qualified estimated, with a possible low bias.

Holding times were met and instrument tunes were within required ranges.

The laboratory case narrative for the soil sample data package should have discussed the outlying issues noted above.

TCL Semivolatile Analyses by EPA8270C

Most of the soil samples were processed at dilutions ranging from five-fold to twenty-fold, although the chromatograms of the samples seemed to indicate lesser or no dilutions would have been sufficient. This is in direct opposition to the project QAPP, which specifies that no dilutions are to be performed unless for the purpose of bring target analytes responses into range. As a result of the dilutions, reporting limits for undetected compounds are elevated proportionally to the dilution factors in those samples. The client should have been notified, and the reason for dilutions should have been discussed in the laboratory case narrative.

Results for benzaldehyde are qualified as estimated in B-1(0-4), B-5, B-6, B-9, and B-10 due to low recovery (32%) in the associated LCS. Results for atrazine are qualified as estimated in B-2, B-3, B-4, B-7, and B-8 due to low recovery (19%) in the associated LCS. Detected results of benzo(a)pyrene in those five samples are qualified as estimated due to elevated recovery (129%) in that LCS.

Matrix spikes of MW-2 show acceptable recoveries for all target analytes. There are numerous elevated duplicate correlation values for analytes not detected in the parent sample; reported results are unaffected.

The matrix spikes of B-10 were processed, like the sample, at twenty-fold dilution. They show generally acceptable recoveries, except for two spike compounds whose responses were diluted beyond detection.

Results for 4-nitroaniline in the aqueous samples have been qualified as estimated due to low recovery (52%) in the associated LCS.

Holding times were met and instrument tunes were within required ranges. Surrogate and internal standard responses were acceptable. Calibrations standards showed responses within validation guidelines.

TCL Pesticides and TCL PCBs by EPA8081A and EPA8082

Some of the soil samples were diluted significantly due to the concentrations of Aroclors in the samples. This resulted in elevated reporting limits for compounds not detected. Those PCBs also produced interferences in the pesticide analyses. Many of the pesticide reported detections show elevated dual column quantitative correlations. These may be falsely elevated concentrations or potential false positives. The affected analyte results have therefore been qualified as either estimated in value, tentative in identification and estimated in value, or edit to non-detection (sometimes at elevated reporting limits), depending on the level of variance. Some of the summary Forms 10 which report the dual column variances show incorrect values (including 0%D).

The detection of Aroclor 1260 in B-10(0-2) is qualified as estimated due to elevated dual column quantitative correlation (64%D).

Detected results for pesticides in B-9 and B-10 are qualified as estimated due to elevated recoveries of surrogate standard DCB.

Surrogate standard DCB was diluted beyond detection/evaluation in some of the extracts, due to the elevated concentration of Aroclors in those samples.

The reporting limit for the non-detection result for Aroclor 1260 in MW-2 has been qualified as estimated due to the presence of that mixture just below that limit on one analytical column and just above it on the other.

The recoveries of Aroclor 1260 in the matrix spikes of MW-2 are elevated, but would have been more acceptable if the low level detection had been taken into the calculation. No additional qualification is indicated.

Matrix spikes of Aroclors 1016 and 1260 in B-10 show acceptable accuracy and precision. A second set of soil matrix spikes should have been processed.

Matrix spikes of pesticides in B-10 show acceptable accuracy and precision, with the exception of the recoveries of d-BHC (40% to 42%). The result for that compound in the parent sample is therefore qualified as estimated.

The matrix spikes of pesticides in MW-2 show acceptable accuracy and precision, with the exception of the recoveries of 4,4'-DDE (42% to 47%). The result for that compound in the parent sample is therefore qualified as estimated.

Aroclor detections in B1(0-4), B10(0-2), B-9, and B-10 have been qualified as estimated due to low outlying responses in the associated calibration standards.

Holding times were met and blanks show no contamination.

There were no summaries for pesticide breakdown, resolution, or retention time windows present in the data packages. These items were reviewed from the raw data.

TAL Metals by EPA6010B and EPA7470/EPA7471

B-10 shows outlying recoveries in both matrix spikes for antimony (38% and 36%) and magnesium (12% and 11%), and an outlying recovery (57%) in the matrix spike for cyanide. Mercury produced one elevated recovery (209%), and an elevated duplicate correlation (54%RPD) in those spikes. Results for those four analytes are qualified as estimated in the soil samples.

The matrix spike and duplicate of MW-2 shows recoveries and correlations within validation guidelines.

The following elements produced outlying ICP serial dilution correlations (11%D to 16%D) in the evaluation of B-10, and the detected results for those elements are qualified as estimated in the soil samples: barium, calcium, chromium, copper, iron, lead, magnesium, manganese, nickel, vanadium, and zinc

The ICP serial dilution evaluation of MW-2 is acceptable.

Due to low recoveries (60% to 63%) in the associated CRI standards, results for arsenic and selenium in the soil samples and mercury in the aqueous samples are qualified as estimated.

Please do not hesitate to contact me if you have comments or questions regarding this report.

Very truly yours,

Judy Harry

VALIDATION DATA QUALIFIER DEFINITIONS

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

CLIENT and LABORATORY SAMPLE IDs and CASE NARRATIVES

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 11/30/09 18:14

Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
B-1(0-4)	RSI0643-01	Solid	09/17/09 09:15	09/17/09 16:47	
B-10 (0-2)	RSI0643-06	Solid	09/17/09 14:49	09/17/09 16:47	
B-10	RSI0643-03	Solid	09/17/09 15:05	09/17/09 16:47	
B-2 (0-2)	RSI0741-01	Solid	09/21/09 08:50	09/21/09 14:26	
B-2 (2-4)	RSI0741-02	Solid	09/21/09 09:00	09/21/09 14:26	
B-2	RSI0741-03	Solid	09/21/09 09:05	09/21/09 14:26	
B-3 (0-2)	RSI0741-07	Solid	09/21/09 09:35	09/21/09 14:26	
B-3 (2-4)	RSI0741-08	Solid	09/21/09 09:35	09/21/09 14:26	
B-3	RSI0741-09	Solid	09/21/09 09:40	09/21/09 14:26	
B-4 (0-2)	RSI0741-04	Solid	09/21/09 09:10	09/21/09 14:26	
B-4 (2-4)	RSI0741-05	Solid	09/21/09 09:10	09/21/09 14:26	
B-4	RSI0741-06	Solid	09/21/09 09:15	09/21/09 14:26	
B-5 (0-2)	RSI0695-05	Solid	09/18/09 09:57	09/18/09 18:43	
B-5 (2-4)	RSI0695-06	Solid	09/18/09 10:05	09/18/09 18:43	
B-5	RSI0695-07	Solid	09/18/09 10:10	09/18/09 18:43	
B-6 (0-2)	RSI0695-08	Solid	09/18/09 12:20	09/18/09 18:43	
B-6 (2-4)	RSI0695-09	Solid	09/18/09 12:25	09/18/09 18:43	
B-6	RSI0695-10	Solid	09/18/09 12:30	09/18/09 18:43	
B-7 (0-2)	RSI0741-13	Solid	09/21/09 10:50	09/21/09 14:26	
B-7 (2-4)	RSI0741-14	Solid	09/21/09 10:50	09/21/09 14:26	
B-7	RSI0741-15	Solid	09/21/09 10:55	09/21/09 14:26	
B-8 (0-2)	RSI0741-10	Solid	09/21/09 10:20	09/21/09 14:26	
B-8 (2-4)	RSI0741-11	Solid	09/21/09 10:20	09/21/09 14:26	
B-8	RSI0741-12	Solid	09/21/09 10:30	09/21/09 14:26	
B-9	RSI0643-02	Solid	09/17/09 11:50	09/17/09 16:47	
SS-1	RSI0695-01	Solid	09/18/09 12:50	09/18/09 18:43	

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
SS-2	RSI0695-02	Solid	09/18/09 10:15	09/18/09 18:43	
SS-3	RSI0695-03	Solid	09/18/09 12:15	09/18/09 18:43	
SS-4	RSI0695-04	Solid	09/18/09 12:00	09/18/09 18:43	

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

Work Order: RSJ0665

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 10/09/09
Reported: 10/29/09 10:48

Sample Summary

Sample Identification	Lab Number	Client Matrix	Date/Time Sampled	Date/Time Received	Sample Qualifiers
MW-1	RSJ0665-01	Water	10/09/09 12:15	10/09/09 13:40	
MW-2	RSJ0665-02	Water	10/09/09 10:00	10/09/09 13:40	
DUP	RSJ0665-05	Water	10/09/09	10/09/09 13:40	
MW-4	RSJ0665-06	Water	10/09/09 11:00	10/09/09 13:40	
TRIP BLANK	RSJ0665-07	Water	10/09/09	10/09/09 13:40	

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Case Narrative

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

For method 8081, the ending calibration verification is below the quality control limits for Methoxychlor due to the matrices of the proceeding samples. The sample results should be considered biased low.

For method 8270, the analyte Atrazine in the Matrix Spiked Blank and Duplicate have recoveries below the laboratory quality control limits. It has been investigated and it was found that the spike mix that is being used is suspect. This data has been accepted .

There are pertinent documents appended to this report, 4 pages, are included and are an integral part of this report.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

Work Order: RSJ0665

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 10/09/09
Reported: 10/29/09 10:48

CASE NARRATIVE

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. field-pH), they were not analyzed immediately, but as soon as possible after laboratory receipt.

A pertinent document is appended to this report, 1 page, is included and is an integral part of this report.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

QUALIFIED SAMPLE RESULTS FORMS

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

Work Order: RSJ0665

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 10/09/09
Reported: 10/29/09 10:48

Analytical Report

Sample ID: RSJ0665-01 (MW-1 - Water) — Sampled: 10/09/09 12:15 — Recvd: 10/09/09 13:40

Volatile Organic Compounds by EPA 8260B

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
1,1,1-Trichloroethane	ND		1.0	0.26	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
1,1-Dichloroethane	ND		1.0	0.38	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
1,1-Dichloroethene	ND		1.0	0.29	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
1,2-Dibromo-3-chloropropane	ND		1.0	0.39	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
1,2-Dibromoethane (EDB)	ND		1.0	0.17	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
1,2-Dichlorobenzene	ND		1.0	0.20	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
1,2-Dichloroethane	ND		1.0	0.21	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
1,2-Dichloroethene, Total	ND		2.0	0.70	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
1,2-Dichloropropane	ND		1.0	0.32	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
1,3-Dichlorobenzene	ND		1.0	0.36	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
2-Butanone (MEK)	ND		5.0	1.3	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
2-Hexanone	ND		5.0	1.2	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.91	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
Acetone	ND		5.0	1.3	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
Benzene	ND		1.0	0.41	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
Bromodichloromethane	ND		1.0	0.39	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
Bromoform	ND		1.0	0.26	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
Bromomethane	ND		1.0	0.28	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
Carbon disulfide	ND		1.0	0.19	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
Carbon Tetrachloride	ND		1.0	0.27	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
Chlorobenzene	ND		1.0	0.32	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
Chlorodibromomethane	ND		1.0	0.32	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
Chloroethane	ND		1.0	0.32	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
Chloroform	ND		1.0	0.34	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
Chloromethane	ND		1.0	0.35	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
cis-1,2-Dichloroethene	ND		1.0	0.38	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
Cyclohexane	ND		1.0	0.53	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
Dichlorodifluoromethane	ND		1.0	0.29	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
Ethylbenzene	ND		1.0	0.18	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
Isopropylbenzene	ND		1.0	0.19	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
Methyl Acetate	ND		1.0	0.50	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
Methyl tert-Butyl Ether	ND		1.0	0.16	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
Methylcyclohexane	ND		1.0	0.50	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
Methylene Chloride	ND		1.0	0.44	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
Styrene	ND		1.0	0.18	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
Tetrachloroethene	ND		1.0	0.36	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
Toluene	ND		1.0	0.51	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
Trichloroethene	ND		1.0	0.46	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
Trichlorofluoromethane	ND		1.0	0.15	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

Work Order: RSJ0665

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 10/09/09
Reported: 10/29/09 10:48

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0665-01 (MW-1 - Water) - cont.						**Sampled: 10/09/09 12:15**		**Recvd: 10/09/09 13:40**		
Volatile Organic Compounds by EPA 8260B - cont.										
Vinyl acetate	ND		5.0	0.85	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
Vinyl chloride	ND		1.0	0.24	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
Xylenes, total	ND		2.0	0.66	ug/L	1.00	10/14/09 01:51	CDC	9J13110	8260B
1,2-Dichloroethane-d4	*103 %*		*Surr Limits: (66-137%)*				*10/14/09 01:51*	*CDC*	*9J13110*	*8260B*
4-Bromofluorobenzene	*89 %*		*Surr Limits: (73-120%)*				*10/14/09 01:51*	*CDC*	*9J13110*	*8260B*
Toluene-d8	*99 %*		*Surr Limits: (71-126%)*				*10/14/09 01:51*	*CDC*	*9J13110*	*8260B*
Semivolatile Organics by GC/MS										
2,4,5-Trichlorophenol	ND		5.0	0.98	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
2,4,6-Trichlorophenol	ND		5.0	0.98	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
2,4-Dichlorophenol	ND		5.0	0.78	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
2,4-Dimethylphenol	ND		5.0	0.95	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
2,4-Dinitrophenol	ND		9.9	2.2	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
2,4-Dinitrotoluene	ND		5.0	0.44	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
2,6-Dinitrotoluene	ND		5.0	0.50	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
2-Chloronaphthalene	ND		5.0	0.083	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
2-Chlorophenol	ND		5.0	0.50	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
2-Methylnaphthalene	ND		5.0	0.081	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
2-Methylphenol	ND		5.0	0.23	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
2-Nitroaniline	ND		9.9	0.49	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
2-Nitrophenol	ND		5.0	0.60	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
3 & 4 Methylphenol	ND		9.9	0.57	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
3,3'-Dichlorobenzidine	ND		5.0	0.37	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
3-Nitroaniline	ND		9.9	1.5	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
4,6-Dinitro-2-methylphenol	ND		9.9	2.2	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
4-Bromophenyl phenyl ether	ND		5.0	0.89	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
4-Chloro-3-methylphenol	ND		5.0	0.59	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
4-Chloroaniline	ND		5.0	0.33	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
4-Chlorophenyl phenyl ether	ND		5.0	0.17	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
4-Nitroaniline	ND	L2 uJ	9.9	0.45	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
4-Nitrophenol	ND		9.9	1.5	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Acenaphthene	ND		5.0	0.11	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Acenaphthylene	ND		5.0	0.047	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Acetophenone	ND		5.0	1.0	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Anthracene	ND		5.0	0.055	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Atrazine	ND		5.0	1.1	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Benzaldehyde	ND		5.0	0.26	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Benzo[a]anthracene	ND		5.0	0.063	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Benzo[a]pyrene	ND		5.0	0.090	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Benzo[b]fluoranthene	ND		5.0	0.062	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Benzo[g,h,i]perylene	ND		5.0	0.077	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Benzo[k]fluoranthene	ND		5.0	0.065	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Biphenyl	ND		5.0	0.65	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Bis(2-chloroethoxy)methane	ND		5.0	0.37	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Bis(2-chloroethyl)ether	ND		5.0	0.18	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Bis(2-chloroisopropyl) ether	ND		4.0	4.0	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

Work Order: RSJ0665

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 10/09/09
Reported: 10/29/09 10:48

Analytical Report

Sample ID: RSJ0665-01 (MW-1 - Water) - cont. — **Sampled: 10/09/09 12:15** — **Recvd: 10/09/09 13:40**

Semivolatile Organics by GC/MS - cont.

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Bis(2-ethylhexyl) phthalate	ND		5.0	4.7	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Butyl benzyl phthalate	ND		5.0	1.7	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Caprolactam	ND		5.0	4.5	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Carbazole	ND		5.0	0.088	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Chrysene	ND		5.0	0.27	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Dibenz[a,h]anthracene	ND		5.0	0.20	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Dibenzofuran	ND		9.9	1.6	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Diethyl phthalate	ND		5.0	0.11	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Dimethyl phthalate	ND		5.0	0.30	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Di-n-butyl phthalate	**0.51**	J	5.0	0.30	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Di-n-octyl phthalate	ND		5.0	0.24	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Fluoranthene	ND		5.0	0.097	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Fluorene	ND		5.0	0.073	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Hexachlorobenzene	ND		5.0	0.44	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Hexachlorobutadiene	ND		5.0	2.6	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Hexachlorocyclopentadiene	ND		5.0	2.5	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Hexachloroethane	ND		5.0	2.8	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Indeno[1,2,3-cd]pyrene	ND		5.0	0.15	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Isophorone	ND		5.0	0.32	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Naphthalene	ND		5.0	0.11	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Nitrobenzene	ND		5.0	0.53	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
N-Nitrosodi-n-propylamine	ND		5.0	0.45	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
N-Nitrosodiphenylamine	ND		5.0	0.26	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Pentachlorophenol	ND		9.9	5.1	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Phenanthrene	ND		5.0	0.11	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Phenol	ND		5.0	0.44	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
Pyrene	ND		5.0	0.067	ug/L	1.00	10/16/09 03:01	JLG	9J12081	8270C
2,4,6-Tribromophenol	*129 %*		*Surr Limits: (52-132%)*				*10/16/09 03:01*	*JLG*	*9J12081*	*8270C*
2-Fluorobiphenyl	*95 %*		*Surr Limits: (48-120%)*				*10/16/09 03:01*	*JLG*	*9J12081*	*8270C*
2-Fluorophenol	*58 %*		*Surr Limits: (20-120%)*				*10/16/09 03:01*	*JLG*	*9J12081*	*8270C*
Nitrobenzene-d5	*100 %*		*Surr Limits: (46-120%)*				*10/16/09 03:01*	*JLG*	*9J12081*	*8270C*
Phenol-d5	*43 %*		*Surr Limits: (16-120%)*				*10/16/09 03:01*	*JLG*	*9J12081*	*8270C*
p-Terphenyl-d14	*63 %*		*Surr Limits: (24-136%)*				*10/16/09 03:01*	*JLG*	*9J12081*	*8270C*

Organochlorine Pesticides by EPA Method 8081A

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
4,4'-DDD [2C]	ND	D02	0.25	0.083	ug/L	5.00	10/13/09 18:39	DGB	9J10012	8081A
4,4'-DDE [2C]	ND	D02	0.25	0.057	ug/L	5.00	10/13/09 18:39	DGB	9J10012	8081A
4,4'-DDT [2C]	ND	D02	0.25	0.054	ug/L	5.00	10/13/09 18:39	DGB	9J10012	8081A
Aldrin [2C]	ND	D02	0.25	0.033	ug/L	5.00	10/13/09 18:39	DGB	9J10012	8081A
alpha-BHC [2C]	ND	D02	0.25	0.033	ug/L	5.00	10/13/09 18:39	DGB	9J10012	8081A
alpha-Chlordane [2C]	ND	D02	0.25	0.073	ug/L	5.00	10/13/09 18:39	DGB	9J10012	8081A
beta-BHC [2C]	**0.21**	NJ D02,J	0.25	0.12	ug/L	5.00	10/13/09 18:39	DGB	9J10012	8081A
Chlordane [2C]	ND	D02	2.5	0.14	ug/L	5.00	10/13/09 18:39	DGB	9J10012	8081A
delta-BHC [2C]	ND	D02	0.25	0.050	ug/L	5.00	10/13/09 18:39	DGB	9J10012	8081A
Dieldrin [2C]	ND	D02	0.25	0.097	ug/L	5.00	10/13/09 18:39	DGB	9J10012	8081A
Endosulfan I [2C]	ND	D02	0.25	0.054	ug/L	5.00	10/13/09 18:39	DGB	9J10012	8081A
Endosulfan II [2C]	ND	D02	0.25	0.059	ug/L	5.00	10/13/09 18:39	DGB	9J10012	8081A
Endosulfan sulfate [2C]	ND	D02	0.25	0.078	ug/L	5.00	10/13/09 18:39	DGB	9J10012	8081A

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

Work Order: RSJ0665

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 10/09/09
Reported: 10/29/09 10:48

Analytical Report

Sample ID: RSJ0665-01 (MW-1 - Water) - cont. — **Sampled: 10/09/09 12:15** — **Recvd: 10/09/09 13:40**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Organochlorine Pesticides by EPA Method 8081A - cont.										
Endrin [2C]	ND	D02	0.25	0.068	ug/L	5.00	10/13/09 18:39	DGB	9J10012	8081A
Endrin aldehyde [2C]	ND	D02	0.25	0.081	ug/L	5.00	10/13/09 18:39	DGB	9J10012	8081A
Endrin ketone [2C]	**0.24**	D02,J	0.25	0.059	ug/L	5.00	10/13/09 18:39	DGB	9J10012	8081A
gamma-BHC (Lindane) [2C]	ND	D02	0.25	0.030	ug/L	5.00	10/13/09 18:39	DGB	9J10012	8081A
gamma-Chlordane [2C]	ND	D02	0.25	0.054	ug/L	5.00	10/13/09 18:39	DGB	9J10012	8081A
Heptachlor [2C]	ND	D02	0.25	0.042	ug/L	5.00	10/13/09 18:39	DGB	9J10012	8081A
Heptachlor epoxide [2C]	ND	D02	0.25	0.026	ug/L	5.00	10/13/09 18:39	DGB	9J10012	8081A
Methoxychlor [2C]	ND ~~0.14~~ U	D02,J	0.25	0.070	ug/L	5.00	10/13/09 18:39	DGB	9J10012	8081A
Toxaphene [2C]	ND	D02	2.5	0.59	ug/L	5.00	10/13/09 18:39	DGB	9J10012	8081A
Decachlorobiphenyl [2C]	*	*D02,C, Z5*	*Surr Limits: (15-139%)*				*10/13/09 18:39*	*DGB*	*9J10012*	*8081A*
Tetrachloro-m-xylene [2C]	*69 %*	*D02*	*Surr Limits: (30-139%)*				*10/13/09 18:39*	*DGB*	*9J10012*	*8081A*
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016	ND	QSU	0.50	0.17	ug/L	1.00	10/13/09 09:48	SCH	9J10013	8082
Aroclor 1221	ND	QSU	0.50	0.17	ug/L	1.00	10/13/09 09:48	SCH	9J10013	8082
Aroclor 1232	ND	QSU	0.50	0.17	ug/L	1.00	10/13/09 09:48	SCH	9J10013	8082
Aroclor 1242	ND	QSU	0.50	0.17	ug/L	1.00	10/13/09 09:48	SCH	9J10013	8082
Aroclor 1248	ND	QSU	0.50	0.17	ug/L	1.00	10/13/09 09:48	SCH	9J10013	8082
Aroclor 1254	ND	QSU	0.50	0.25	ug/L	1.00	10/13/09 09:48	SCH	9J10013	8082
Aroclor 1260	ND	QSU	0.50	0.25	ug/L	1.00	10/13/09 09:48	SCH	9J10013	8082
Decachlorobiphenyl	*28 %*	*QSU*	*Surr Limits: (12-137%)*				*10/13/09 09:48*	*SCH*	*9J10013*	*8082*
Tetrachloro-m-xylene	*65 %*	*QSU*	*Surr Limits: (35-121%)*				*10/13/09 09:48*	*SCH*	*9J10013*	*8082*
Total Metals by SW 846 Series Methods										
Aluminum	**6.61**		0.200	NR	mg/L	1.00	10/15/09 00:18	LMH	9J13072	6010B
Antimony	ND		0.0200	NR	mg/L	1.00	10/15/09 00:18	LMH	9J13072	6010B
Arsenic	ND		0.0100	NR	mg/L	1.00	10/15/09 00:18	LMH	9J13072	6010B
Barium	**0.120**		0.0020	NR	mg/L	1.00	10/15/09 00:18	LMH	9J13072	6010B
Beryllium	ND		0.0020	NR	mg/L	1.00	10/15/09 00:18	LMH	9J13072	6010B
Cadmium	ND		0.0010	NR	mg/L	1.00	10/15/09 00:18	LMH	9J13072	6010B
Calcium	**71.0**		0.5	NR	mg/L	1.00	10/15/09 00:18	LMH	9J13072	6010B
Chromium	**0.0079**		0.0040	NR	mg/L	1.00	10/15/09 00:18	LMH	9J13072	6010B
Cobalt	ND		0.0040	NR	mg/L	1.00	10/15/09 00:18	LMH	9J13072	6010B
Copper	ND		0.0100	NR	mg/L	1.00	10/15/09 00:18	LMH	9J13072	6010B
Iron	**6.27**		0.050	NR	mg/L	1.00	10/15/09 00:18	LMH	9J13072	6010B
Lead	ND		0.0050	NR	mg/L	1.00	10/15/09 00:18	LMH	9J13072	6010B
Magnesium	**57.7**		0.200	NR	mg/L	1.00	10/15/09 00:18	LMH	9J13072	6010B
Manganese	**0.113**		0.0030	NR	mg/L	1.00	10/15/09 00:18	LMH	9J13072	6010B
Nickel	ND		0.0100	NR	mg/L	1.00	10/15/09 00:18	LMH	9J13072	6010B
Potassium	**3.36**		0.500	NR	mg/L	1.00	10/15/09 00:18	LMH	9J13072	6010B
Selenium	ND		0.0150	NR	mg/L	1.00	10/15/09 00:18	LMH	9J13072	6010B
Silver	ND		0.0030	NR	mg/L	1.00	10/15/09 00:18	LMH	9J13072	6010B
Sodium	**26.6**		1.0	NR	mg/L	1.00	10/15/09 00:18	LMH	9J13072	6010B
Thallium	ND		0.0200	NR	mg/L	1.00	10/15/09 00:18	LMH	9J13072	6010B
Vanadium	**0.0085**		0.0050	NR	mg/L	1.00	10/15/09 00:18	LMH	9J13072	6010B
Zinc	**0.0162**		0.0100	NR	mg/L	1.00	10/15/09 00:18	LMH	9J13072	6010B

Golder Associates, Inc. - Niagara Falls, NY
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Work Order: RSJ0665

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 10/09/09
Reported: 10/29/09 10:48

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0665-01 (MW-1 - Water) - cont.							**Sampled: 10/09/09 12:15**		**Recvd: 10/09/09 13:40**	
Total Metals by SW 846 Series Methods - cont.										
Mercury	ND	UJ	0.0002	NR	mg/L	1.00	10/13/09 14:43	MXM	9J13033	7470A
General Chemistry Parameters										
Cyanide	ND		0.0200	0.0050	mg/L	1.00	10/16/09 10:07	LRM	9J15058	9012A
Turbidity	358	B J	1.0	0.0	NTU	1.00	10/13/09 14:08	RMB	9J13007	180.1

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Received: 10/09/09
Reported: 10/29/09 10:48

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0665-02 (MW-2 - Water)						**Sampled: 10/09/09 10:00**		**Recvd: 10/09/09 13:40**		
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND		1.0	0.26	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
1,1-Dichloroethane	ND		1.0	0.38	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
1,1-Dichloroethene	ND		1.0	0.29	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
1,2-Dibromo-3-chloropropane	ND		1.0	0.39	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
1,2-Dibromoethane (EDB)	ND		1.0	0.17	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
1,2-Dichlorobenzene	ND		1.0	0.20	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
1,2-Dichloroethane	ND		1.0	0.21	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
1,2-Dichloroethene, Total	ND		2.0	0.70	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
1,2-Dichloropropane	ND		1.0	0.32	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
1,3-Dichlorobenzene	ND		1.0	0.36	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
2-Butanone (MEK)	ND		5.0	1.3	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
2-Hexanone	ND		5.0	1.2	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.91	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
Acetone	ND		5.0	1.3	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
Benzene	ND		1.0	0.41	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
Bromodichloromethane	ND		1.0	0.39	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
Bromoform	ND		1.0	0.26	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
Bromomethane	ND		1.0	0.28	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
Carbon disulfide	ND		1.0	0.19	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
Carbon Tetrachloride	ND		1.0	0.27	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
Chlorobenzene	ND		1.0	0.32	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
Chlorodibromomethane	ND		1.0	0.32	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
Chloroethane	ND		1.0	0.32	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
Chloroform	ND		1.0	0.34	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
Chloromethane	ND		1.0	0.35	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
cis-1,2-Dichloroethene	ND		1.0	0.38	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
Cyclohexane	ND		1.0	0.53	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
Dichlorodifluoromethane	ND		1.0	0.29	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
Ethylbenzene	ND		1.0	0.18	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
Isopropylbenzene	ND		1.0	0.19	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
Methyl Acetate	ND		1.0	0.50	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
Methyl tert-Butyl Ether	ND		1.0	0.16	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
Methylcyclohexane	ND		1.0	0.50	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
Methylene Chloride	ND		1.0	0.44	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
Styrene	ND		1.0	0.18	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
Tetrachloroethene	ND		1.0	0.36	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
Toluene	ND		1.0	0.51	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
Trichloroethene	ND		1.0	0.46	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
Trichlorofluoromethane	ND		1.0	0.15	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B

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Work Order: RSJ0665

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 10/09/09
Reported: 10/29/09 10:48

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0665-02 (MW-2 - Water) - cont.						**Sampled: 10/09/09 10:00**		**Recvd: 10/09/09 13:40**		
Volatile Organic Compounds by EPA 8260B - cont.										
Vinyl acetate	ND		5.0	0.85	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
Vinyl chloride	ND		1.0	0.24	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
Xylenes, total	ND		2.0	0.66	ug/L	1.00	10/14/09 02:19	CDC	9J13110	8260B
1,2-Dichloroethane-d4	*101 %*		*Surr Limits: (66-137%)*				*10/14/09 02:19*	*CDC*	*9J13110*	*8260B*
4-Bromofluorobenzene	*87 %*		*Surr Limits: (73-120%)*				*10/14/09 02:19*	*CDC*	*9J13110*	*8260B*
Toluene-d8	*99 %*		*Surr Limits: (71-126%)*				*10/14/09 02:19*	*CDC*	*9J13110*	*8260B*
Semivolatile Organics by GC/MS										
2,4,5-Trichlorophenol	ND		5.2	1.0	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
2,4,6-Trichlorophenol	ND		5.2	1.0	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
2,4-Dichlorophenol	ND		5.2	0.81	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
2,4-Dimethylphenol	ND		5.2	0.99	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
2,4-Dinitrophenol	ND		10	2.3	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
2,4-Dinitrotoluene	ND		5.2	0.46	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
2,6-Dinitrotoluene	ND		5.2	0.53	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
2-Chloronaphthalene	ND		5.2	0.087	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
2-Chlorophenol	ND		5.2	0.52	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
2-Methylnaphthalene	ND		5.2	0.085	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
2-Methylphenol	ND		5.2	0.24	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
2-Nitroaniline	ND		10	0.51	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
2-Nitrophenol	ND		5.2	0.62	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
3 & 4 Methylphenol	ND		10	0.60	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
3,3'-Dichlorobenzidine	ND		5.2	0.39	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
3-Nitroaniline	ND		10	1.6	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
4,6-Dinitro-2-methylphenol	ND		10	2.3	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
4-Bromophenyl phenyl ether	ND		5.2	0.93	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
4-Chloro-3-methylphenol	ND		5.2	0.61	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
4-Chloroaniline	ND		5.2	0.34	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
4-Chlorophenyl phenyl ether	ND		5.2	0.17	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
4-Nitroaniline	ND	CCJ	10	0.47	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
4-Nitrophenol	ND		10	1.6	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Acenaphthene	ND		5.2	0.12	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Acenaphthylene	ND		5.2	0.048	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Acetophenone	ND		5.2	1.1	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Anthracene	ND		5.2	0.058	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Atrazine	ND		5.2	1.1	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Benzaldehyde	ND		5.2	0.28	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Benzo[a]anthracene	ND		5.2	0.066	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Benzo[a]pyrene	ND		5.2	0.094	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Benzo[b]fluoranthene	ND		5.2	0.065	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Benzo[g,h,i]perylene	ND		5.2	0.080	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Benzo[k]fluoranthene	ND		5.2	0.068	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Biphenyl	ND		5.2	0.67	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Bis(2-chloroethoxy)methane	ND		5.2	0.39	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Bis(2-chloroethyl)ether	ND		5.2	0.19	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Bis(2-chloroisopropyl) ether	ND		4.1	4.1	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

Work Order: RSJ0665

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 10/09/09
Reported: 10/29/09 10:48

Analytical Report

Sample ID: RSJ0665-02 (MW-2 - Water) - cont. — **Sampled: 10/09/09 10:00** — **Recvd: 10/09/09 13:40**

Semivolatile Organics by GC/MS - cont.

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Bis(2-ethylhexyl) phthalate	ND		5.2	4.9	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Butyl benzyl phthalate	ND		5.2	1.8	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Caprolactam	ND		5.2	4.7	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Carbazole	ND		5.2	0.092	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Chrysene	ND		5.2	0.28	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Dibenz[a,h]anthracene	ND		5.2	0.21	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Dibenzofuran	ND		10	1.6	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Diethyl phthalate	**0.82**	J	5.2	0.11	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Dimethyl phthalate	ND		5.2	0.31	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Di-n-butyl phthalate	**0.57**	J	5.2	0.31	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Di-n-octyl phthalate	ND		5.2	0.25	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Fluoranthene	ND		5.2	0.10	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Fluorene	ND		5.2	0.076	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Hexachlorobenzene	ND		5.2	0.46	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Hexachlorobutadiene	ND		5.2	2.7	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Hexachlorocyclopentadiene	ND		5.2	2.6	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Hexachloroethane	ND		5.2	2.9	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Indeno[1,2,3-cd]pyrene	ND		5.2	0.16	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Isophorone	ND		5.2	0.33	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Naphthalene	ND		5.2	0.12	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Nitrobenzene	ND		5.2	0.55	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
N-Nitrosodi-n-propylamine	ND		5.2	0.47	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
N-Nitrosodiphenylamine	ND		5.2	0.27	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Pentachlorophenol	ND		10	5.3	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Phenanthrene	**0.88**	J	5.2	0.12	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Phenol	ND		5.2	0.46	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
Pyrene	ND		5.2	0.070	ug/L	1.00	10/16/09 03:24	JLG	9J12081	8270C
2,4,6-Tribromophenol	*130 %*		*Surr Limits: (52-132%)*				*10/16/09 03:24*	*JLG*	*9J12081*	*8270C*
2-Fluorobiphenyl	*96 %*		*Surr Limits: (48-120%)*				*10/16/09 03:24*	*JLG*	*9J12081*	*8270C*
2-Fluorophenol	*57 %*		*Surr Limits: (20-120%)*				*10/16/09 03:24*	*JLG*	*9J12081*	*8270C*
Nitrobenzene-d5	*97 %*		*Surr Limits: (46-120%)*				*10/16/09 03:24*	*JLG*	*9J12081*	*8270C*
Phenol-d5	*41 %*		*Surr Limits: (16-120%)*				*10/16/09 03:24*	*JLG*	*9J12081*	*8270C*
p-Terphenyl-d14	*79 %*		*Surr Limits: (24-136%)*				*10/16/09 03:24*	*JLG*	*9J12081*	*8270C*

Organochlorine Pesticides by EPA Method 8081A

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
4,4'-DDD [2C]	ND	D02	0.25	0.083	ug/L	5.00	10/13/09 19:15	DGB	9J10012	8081A
4,4'-DDE [2C]	ND	U J D02	0.25	0.057	ug/L	5.00	10/13/09 19:15	DGB	9J10012	8081A
4,4'-DDT [2C]	ND	D02	0.25	0.054	ug/L	5.00	10/13/09 19:15	DGB	9J10012	8081A
Aldrin [2C]	ND	D02	0.25	0.033	ug/L	5.00	10/13/09 19:15	DGB	9J10012	8081A
alpha-BHC [2C]	ND	D02	0.25	0.033	ug/L	5.00	10/13/09 19:15	DGB	9J10012	8081A
alpha-Chlordane [2C]	ND	D02	0.25	0.073	ug/L	5.00	10/13/09 19:15	DGB	9J10012	8081A
beta-BHC [2C]	ND	D02	0.25	0.12	ug/L	5.00	10/13/09 19:15	DGB	9J10012	8081A
Chlordane [2C]	ND	D02	2.5	0.14	ug/L	5.00	10/13/09 19:15	DGB	9J10012	8081A
delta-BHC [2C]	ND	D02	0.25	0.050	ug/L	5.00	10/13/09 19:15	DGB	9J10012	8081A
Dieldrin [2C]	ND	D02	0.25	0.097	ug/L	5.00	10/13/09 19:15	DGB	9J10012	8081A
Endosulfan I [2C]	ND	D02	0.25	0.054	ug/L	5.00	10/13/09 19:15	DGB	9J10012	8081A
Endosulfan II [2C]	ND	D02	0.25	0.059	ug/L	5.00	10/13/09 19:15	DGB	9J10012	8081A
Endosulfan sulfate [2C]	ND	D02	0.25	0.078	ug/L	5.00	10/13/09 19:15	DGB	9J10012	8081A

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

Work Order: RSJ0665

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 10/09/09
Reported: 10/29/09 10:48

Analytical Report

Sample ID: RSJ0665-02 (MW-2 - Water) - cont. — **Sampled: 10/09/09 10:00** — **Recvd: 10/09/09 13:40**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Organochlorine Pesticides by EPA Method 8081A - cont.										
Endrin [2C]	ND	D02	0.25	0.068	ug/L	5.00	10/13/09 19:15	DGB	9J10012	8081A
Endrin aldehyde [2C]	ND	D02	0.25	0.081	ug/L	5.00	10/13/09 19:15	DGB	9J10012	8081A
Endrin ketone [2C]	ND	D02	0.25	0.059	ug/L	5.00	10/13/09 19:15	DGB	9J10012	8081A
gamma-BHC (Lindane) [2C]	ND	D02	0.25	0.030	ug/L	5.00	10/13/09 19:15	DGB	9J10012	8081A
gamma-Chlordane [2C]	ND	D02	0.25	0.054	ug/L	5.00	10/13/09 19:15	DGB	9J10012	8081A
Heptachlor [2C]	ND	D02	0.25	0.042	ug/L	5.00	10/13/09 19:15	DGB	9J10012	8081A
Heptachlor epoxide [2C]	ND	D02	0.25	0.026	ug/L	5.00	10/13/09 19:15	DGB	9J10012	8081A
Methoxychlor [2C]	**0.26**	D02	0.25	0.070	ug/L	5.00	10/13/09 19:15	DGB	9J10012	8081A
Toxaphene [2C]	ND	D02	2.5	0.59	ug/L	5.00	10/13/09 19:15	DGB	9J10012	8081A
Decachlorobiphenyl [2C]	*	*D02,C*	*Surr Limits: (15-139%)*				*10/13/09 19:15*	*DGB*	*9J10012*	*8081A*
Tetrachloro-m-xylene [2C]	*63 %*	*D02*	*Surr Limits: (30-139%)*				*10/13/09 19:15*	*DGB*	*9J10012*	*8081A*
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016	ND	QSU	0.50	0.17	ug/L	1.00	10/13/09 10:06	SCH	9J10013	8082
Aroclor 1221	ND	QSU	0.50	0.17	ug/L	1.00	10/13/09 10:06	SCH	9J10013	8082
Aroclor 1232	ND	QSU	0.50	0.17	ug/L	1.00	10/13/09 10:06	SCH	9J10013	8082
Aroclor 1242	ND	QSU	0.50	0.17	ug/L	1.00	10/13/09 10:06	SCH	9J10013	8082
Aroclor 1248	ND	QSU	0.50	0.17	ug/L	1.00	10/13/09 10:06	SCH	9J10013	8082
Aroclor 1254	ND	QSU	0.50	0.25	ug/L	1.00	10/13/09 10:06	SCH	9J10013	8082
Aroclor 1260	ND U5	QSU	0.50	0.25	ug/L	1.00	10/13/09 10:06	SCH	9J10013	8082
Decachlorobiphenyl	*33 %*	*QSU*	*Surr Limits: (12-137%)*				*10/13/09 10:06*	*SCH*	*9J10013*	*8082*
Tetrachloro-m-xylene	*60 %*	*QSU*	*Surr Limits: (35-121%)*				*10/13/09 10:06*	*SCH*	*9J10013*	*8082*
Total Metals by SW 846 Series Methods										
Aluminum	**9.62**		0.200	NR	mg/L	1.00	10/15/09 00:23	LMH	9J13072	6010B
Antimony	ND		0.0200	NR	mg/L	1.00	10/15/09 00:23	LMH	9J13072	6010B
Arsenic	ND		0.0100	NR	mg/L	1.00	10/15/09 00:23	LMH	9J13072	6010B
Barium	**0.108**		0.0020	NR	mg/L	1.00	10/15/09 00:23	LMH	9J13072	6010B
Beryllium	ND		0.0020	NR	mg/L	1.00	10/15/09 00:23	LMH	9J13072	6010B
Cadmium	ND		0.0010	NR	mg/L	1.00	10/15/09 00:23	LMH	9J13072	6010B
Calcium	**203**		0.5	NR	mg/L	1.00	10/15/09 00:23	LMH	9J13072	6010B
Chromium	**0.0148**		0.0040	NR	mg/L	1.00	10/15/09 00:23	LMH	9J13072	6010B
Cobalt	ND		0.0040	NR	mg/L	1.00	10/15/09 00:23	LMH	9J13072	6010B
Copper	**0.0179**		0.0100	NR	mg/L	1.00	10/15/09 00:23	LMH	9J13072	6010B
Iron	**9.73**		0.050	NR	mg/L	1.00	10/15/09 00:23	LMH	9J13072	6010B
Lead	**0.0165**		0.0050	NR	mg/L	1.00	10/15/09 00:23	LMH	9J13072	6010B
Magnesium	**121**		0.200	NR	mg/L	1.00	10/15/09 00:23	LMH	9J13072	6010B
Manganese	**0.307**		0.0030	NR	mg/L	1.00	10/15/09 00:23	LMH	9J13072	6010B
Nickel	ND		0.0100	NR	mg/L	1.00	10/15/09 00:23	LMH	9J13072	6010B
Potassium	**7.48**		0.500	NR	mg/L	1.00	10/15/09 00:23	LMH	9J13072	6010B
Selenium	ND		0.0150	NR	mg/L	1.00	10/15/09 00:23	LMH	9J13072	6010B
Silver	ND		0.0030	NR	mg/L	1.00	10/15/09 00:23	LMH	9J13072	6010B
Sodium	**52.2**		1.0	NR	mg/L	1.00	10/15/09 00:23	LMH	9J13072	6010B
Thallium	ND		0.0200	NR	mg/L	1.00	10/15/09 00:23	LMH	9J13072	6010B
Vanadium	**0.0139**		0.0050	NR	mg/L	1.00	10/15/09 00:23	LMH	9J13072	6010B
Zinc	**0.0493**		0.0100	NR	mg/L	1.00	10/15/09 00:23	LMH	9J13072	6010B

Golder Associates, Inc. - Niagara Falls, NY
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Work Order: RSJ0665

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 10/09/09
Reported: 10/29/09 10:48

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0665-02 (MW-2 - Water) - cont.						**Sampled: 10/09/09 10:00**		**Recvd: 10/09/09 13:40**		
Total Metals by SW 846 Series Methods - cont.										
Mercury	ND	UJ	0.0002	NR	mg/L	1.00	10/13/09 14:44	MXM	9J13033	7470A
General Chemistry Parameters										
Cyanide	ND		0.0200	0.0050	mg/L	1.00	10/16/09 10:07	LRM	9J15058	9012A
Turbidity	**391**	B	1.0	0.0	NTU	1.00	10/13/09 14:08	RMB	9J13007	180.1

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Received: 10/09/09
Reported: 10/29/09 10:48

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0665-05 (DUP - Water)						**Sampled: 10/09/09**			**Recvd: 10/09/09 13:40**	
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND		1.0	0.26	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
1,1-Dichloroethane	ND		1.0	0.38	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
1,1-Dichloroethene	ND		1.0	0.29	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
1,2-Dibromo-3-chloropropane	ND		1.0	0.39	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
1,2-Dibromoethane (EDB)	ND		1.0	0.17	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
1,2-Dichlorobenzene	ND		1.0	0.20	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
1,2-Dichloroethane	ND		1.0	0.21	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
1,2-Dichloroethene, Total	ND		2.0	0.70	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
1,2-Dichloropropane	ND		1.0	0.32	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
1,3-Dichlorobenzene	ND		1.0	0.36	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
2-Butanone (MEK)	ND		5.0	1.3	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
2-Hexanone	ND		5.0	1.2	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.91	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
Acetone	ND		5.0	1.3	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
Benzene	ND		1.0	0.41	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
Bromodichloromethane	ND		1.0	0.39	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
Bromoform	ND		1.0	0.26	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
Bromomethane	ND		1.0	0.28	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
Carbon disulfide	ND		1.0	0.19	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
Carbon Tetrachloride	ND		1.0	0.27	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
Chlorobenzene	ND		1.0	0.32	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
Chlorodibromomethane	ND		1.0	0.32	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
Chloroethane	ND		1.0	0.32	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
Chloroform	ND		1.0	0.34	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
Chloromethane	ND		1.0	0.35	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
cis-1,2-Dichloroethene	ND		1.0	0.38	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
Cyclohexane	ND		1.0	0.53	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
Dichlorodifluoromethane	ND		1.0	0.29	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
Ethylbenzene	ND		1.0	0.18	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
Isopropylbenzene	ND		1.0	0.19	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
Methyl Acetate	ND		1.0	0.50	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
Methyl tert-Butyl Ether	ND		1.0	0.16	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
Methylcyclohexane	ND		1.0	0.50	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
Methylene Chloride	ND		1.0	0.44	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
Styrene	ND		1.0	0.18	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
Tetrachloroethene	ND		1.0	0.36	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
Toluene	ND		1.0	0.51	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
Trichloroethene	ND		1.0	0.46	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
Trichlorofluoromethane	ND		1.0	0.15	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

Work Order: RSJ0665

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 10/09/09
Reported: 10/29/09 10:48

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0665-05 (DUP - Water) - cont.						**Sampled: 10/09/09**			**Recvd: 10/09/09 13:40**	
Volatile Organic Compounds by EPA 8260B - cont.										
Vinyl acetate	ND		5.0	0.85	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
Vinyl chloride	ND		1.0	0.24	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
Xylenes, total	ND		2.0	0.66	ug/L	1.00	10/14/09 03:44	CDC	9J13110	8260B
1,2-Dichloroethane-d4	*104 %*		*Surr Limits: (66-137%)*				*10/14/09 03:44*	*CDC*	*9J13110*	*8260B*
4-Bromofluorobenzene	*89 %*		*Surr Limits: (73-120%)*				*10/14/09 03:44*	*CDC*	*9J13110*	*8260B*
Toluene-d8	*99 %*		*Surr Limits: (71-126%)*				*10/14/09 03:44*	*CDC*	*9J13110*	*8260B*
Semivolatile Organics by GC/MS										
2,4,5-Trichlorophenol	ND		5.2	1.0	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
2,4,6-Trichlorophenol	ND		5.2	1.0	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
2,4-Dichlorophenol	ND		5.2	0.82	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
2,4-Dimethylphenol	ND		5.2	1.0	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
2,4-Dinitrophenol	ND		10	2.3	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
2,4-Dinitrotoluene	ND		5.2	0.47	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
2,6-Dinitrotoluene	ND		5.2	0.53	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
2-Chloronaphthalene	ND		5.2	0.088	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
2-Chlorophenol	ND		5.2	0.53	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
2-Methylnaphthalene	ND		5.2	0.085	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
2-Methylphenol	ND		5.2	0.24	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
2-Nitroaniline	ND		10	0.52	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
2-Nitrophenol	ND		5.2	0.63	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
3 & 4 Methylphenol	ND		10	0.60	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
3,3'-Dichlorobenzidine	ND		5.2	0.39	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
3-Nitroaniline	ND		10	1.6	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
4,6-Dinitro-2-methylphenol	ND		10	2.4	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
4-Bromophenyl phenyl ether	ND		5.2	0.94	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
4-Chloro-3-methylphenol	ND		5.2	0.62	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
4-Chloroaniline	ND		5.2	0.34	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
4-Chlorophenyl phenyl ether	ND		5.2	0.17	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
4-Nitroaniline	ND	L2 UJ	10	0.47	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
4-Nitrophenol	ND		10	1.6	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Acenaphthene	ND		5.2	0.12	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Acenaphthylene	ND		5.2	0.049	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Acetophenone	ND		5.2	1.1	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Anthracene	ND		5.2	0.058	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Atrazine	ND		5.2	1.1	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Benzaldehyde	ND		5.2	0.28	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Benzo[a]anthracene	ND		5.2	0.067	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Benzo[a]pyrene	ND		5.2	0.095	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Benzo[b]fluoranthene	ND		5.2	0.066	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Benzo[g,h,i]perylene	ND		5.2	0.081	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Benzo[k]fluoranthene	ND		5.2	0.069	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Biphenyl	ND		5.2	0.68	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Bis(2-chloroethoxy)methane	ND		5.2	0.39	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Bis(2-chloroethyl)ether	ND		5.2	0.19	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Bis(2-chloroisopropyl) ether	ND		4.2	4.2	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

Work Order: RSJ0665

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 10/09/09
Reported: 10/29/09 10:48

Analytical Report

Sample ID: RSJ0665-05 (DUP - Water) - cont. **Sampled: 10/09/09** **Recvd: 10/09/09 13:40**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Semivolatile Organics by GC/MS - cont.										
Bis(2-ethylhexyl) phthalate	ND		5.2	5.0	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Butyl benzyl phthalate	ND		5.2	1.8	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Caprolactam	ND		5.2	4.8	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Carbazole	ND		5.2	0.093	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Chrysene	ND		5.2	0.28	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Dibenz[a,h]anthracene	ND		5.2	0.21	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Dibenzofuran	ND		10	1.7	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Diethyl phthalate	ND		5.2	0.11	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Dimethyl phthalate	ND		5.2	0.31	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Di-n-butyl phthalate	**0.46**	J	5.2	0.31	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Di-n-octyl phthalate	ND		5.2	0.25	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Fluoranthene	ND		5.2	0.10	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Fluorene	ND		5.2	0.077	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Hexachlorobenzene	ND		5.2	0.46	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Hexachlorobutadiene	ND		5.2	2.7	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Hexachlorocyclopentadiene	ND		5.2	2.6	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Hexachloroethane	ND		5.2	2.9	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Indeno[1,2,3-cd]pyrene	ND		5.2	0.16	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Isophorone	ND		5.2	0.33	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Naphthalene	ND		5.2	0.12	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Nitrobenzene	ND		5.2	0.56	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
N-Nitrosodi-n-propylamine	ND		5.2	0.47	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
N-Nitrosodiphenylamine	ND		5.2	0.27	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Pentachlorophenol	ND		10	5.4	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Phenanthrene	ND		5.2	0.12	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Phenol	ND		5.2	0.46	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
Pyrene	ND		5.2	0.071	ug/L	1.00	10/16/09 03:47	JLG	9J12081	8270C
2,4,6-Tribromophenol	*121 %*		*Surr Limits: (52-132%)*				*10/16/09 03:47*	*JLG*	*9J12081*	*8270C*
2-Fluorobiphenyl	*90 %*		*Surr Limits: (48-120%)*				*10/16/09 03:47*	*JLG*	*9J12081*	*8270C*
2-Fluorophenol	*56 %*		*Surr Limits: (20-120%)*				*10/16/09 03:47*	*JLG*	*9J12081*	*8270C*
Nitrobenzene-d5	*89 %*		*Surr Limits: (46-120%)*				*10/16/09 03:47*	*JLG*	*9J12081*	*8270C*
Phenol-d5	*42 %*		*Surr Limits: (16-120%)*				*10/16/09 03:47*	*JLG*	*9J12081*	*8270C*
p-Terphenyl-d14	*68 %*		*Surr Limits: (24-136%)*				*10/16/09 03:47*	*JLG*	*9J12081*	*8270C*
Organochlorine Pesticides by EPA Method 8081A										
4,4'-DDD [2C]	ND	D02	0.25	0.083	ug/L	5.00	10/13/09 21:03	DGB	9J10012	8081A
4,4'-DDE [2C]	ND	D02	0.25	0.057	ug/L	5.00	10/13/09 21:03	DGB	9J10012	8081A
4,4'-DDT [2C]	ND	D02	0.25	0.054	ug/L	5.00	10/13/09 21:03	DGB	9J10012	8081A
Aldrin [2C]	ND	D02	0.25	0.033	ug/L	5.00	10/13/09 21:03	DGB	9J10012	8081A
alpha-BHC [2C]	ND	D02	0.25	0.033	ug/L	5.00	10/13/09 21:03	DGB	9J10012	8081A
alpha-Chlordane [2C]	ND	D02	0.25	0.073	ug/L	5.00	10/13/09 21:03	DGB	9J10012	8081A
beta-BHC [2C]	ND	D02	0.25	0.12	ug/L	5.00	10/13/09 21:03	DGB	9J10012	8081A
Chlordane [2C]	ND	D02	2.5	0.14	ug/L	5.00	10/13/09 21:03	DGB	9J10012	8081A
delta-BHC [2C]	ND	D02	0.25	0.050	ug/L	5.00	10/13/09 21:03	DGB	9J10012	8081A
Dieldrin [2C]	ND	D02	0.25	0.097	ug/L	5.00	10/13/09 21:03	DGB	9J10012	8081A
Endosulfan I [2C]	ND	D02	0.25	0.054	ug/L	5.00	10/13/09 21:03	DGB	9J10012	8081A
Endosulfan II [2C]	ND	D02	0.25	0.059	ug/L	5.00	10/13/09 21:03	DGB	9J10012	8081A
Endosulfan sulfate [2C]	ND	D02	0.25	0.078	ug/L	5.00	10/13/09 21:03	DGB	9J10012	8081A

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Work Order: RSJ0665

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 10/09/09
Reported: 10/29/09 10:48

Analytical Report

Sample ID: RSJ0665-05 (DUP - Water) - cont. — **Sampled: 10/09/09** — **Recvd: 10/09/09 13:40**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Organochlorine Pesticides by EPA Method 8081A - cont.										
Endrin [2C]	ND	D02	0.25	0.068	ug/L	5.00	10/13/09 21:03	DGB	9J10012	8081A
Endrin aldehyde [2C]	ND	D02	0.25	0.081	ug/L	5.00	10/13/09 21:03	DGB	9J10012	8081A
Endrin ketone [2C]	ND	D02	0.25	0.059	ug/L	5.00	10/13/09 21:03	DGB	9J10012	8081A
gamma-BHC (Lindane) [2C]	ND	D02	0.25	0.030	ug/L	5.00	10/13/09 21:03	DGB	9J10012	8081A
gamma-Chlordane [2C]	ND	D02	0.25	0.054	ug/L	5.00	10/13/09 21:03	DGB	9J10012	8081A
Heptachlor [2C]	ND	D02	0.25	0.042	ug/L	5.00	10/13/09 21:03	DGB	9J10012	8081A
Heptachlor epoxide [2C]	ND	D02	0.25	0.026	ug/L	5.00	10/13/09 21:03	DGB	9J10012	8081A
Methoxychlor [2C]	ND	D02	0.25	0.070	ug/L	5.00	10/13/09 21:03	DGB	9J10012	8081A
Toxaphene [2C]	ND	D02	2.5	0.59	ug/L	5.00	10/13/09 21:03	DGB	9J10012	8081A
Decachlorobiphenyl [2C]	*31 %*	*D02,C*	*Surr Limits: (15-139%)*				*10/13/09 21:03*	*DGB*	*9J10012*	*8081A*
Tetrachloro-m-xylene [2C]	*113 %*	*D02*	*Surr Limits: (30-139%)*				*10/13/09 21:03*	*DGB*	*9J10012*	*8081A*
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016	ND	QSU	0.50	0.17	ug/L	1.00	10/13/09 10:25	SCH	9J10013	8082
Aroclor 1221	ND	QSU	0.50	0.17	ug/L	1.00	10/13/09 10:25	SCH	9J10013	8082
Aroclor 1232	ND	QSU	0.50	0.17	ug/L	1.00	10/13/09 10:25	SCH	9J10013	8082
Aroclor 1242	ND	QSU	0.50	0.17	ug/L	1.00	10/13/09 10:25	SCH	9J10013	8082
Aroclor 1248	ND	QSU	0.50	0.17	ug/L	1.00	10/13/09 10:25	SCH	9J10013	8082
Aroclor 1254	ND	QSU	0.50	0.25	ug/L	1.00	10/13/09 10:25	SCH	9J10013	8082
Aroclor 1260	ND	QSU	0.50	0.25	ug/L	1.00	10/13/09 10:25	SCH	9J10013	8082
Decachlorobiphenyl	*73 %*	*QSU*	*Surr Limits: (12-137%)*				*10/13/09 10:25*	*SCH*	*9J10013*	*8082*
Tetrachloro-m-xylene	*120 %*	*QSU*	*Surr Limits: (35-121%)*				*10/13/09 10:25*	*SCH*	*9J10013*	*8082*
Total Metals by SW 846 Series Methods										
Aluminum	**5.75**		0.200	NR	mg/L	1.00	10/15/09 01:00	LMH	9J13072	6010B
Antimony	ND		0.0200	NR	mg/L	1.00	10/15/09 01:00	LMH	9J13072	6010B
Arsenic	ND		0.0100	NR	mg/L	1.00	10/15/09 01:00	LMH	9J13072	6010B
Barium	**0.130**		0.0020	NR	mg/L	1.00	10/15/09 01:00	LMH	9J13072	6010B
Beryllium	ND		0.0020	NR	mg/L	1.00	10/15/09 01:00	LMH	9J13072	6010B
Cadmium	ND		0.0010	NR	mg/L	1.00	10/15/09 01:00	LMH	9J13072	6010B
Calcium	**67.9**		0.5	NR	mg/L	1.00	10/15/09 01:00	LMH	9J13072	6010B
Chromium	**0.0072**		0.0040	NR	mg/L	1.00	10/15/09 01:00	LMH	9J13072	6010B
Cobalt	ND		0.0040	NR	mg/L	1.00	10/15/09 01:00	LMH	9J13072	6010B
Copper	ND		0.0100	NR	mg/L	1.00	10/15/09 01:00	LMH	9J13072	6010B
Iron	**5.42**		0.050	NR	mg/L	1.00	10/15/09 01:00	LMH	9J13072	6010B
Lead	ND		0.0050	NR	mg/L	1.00	10/15/09 01:00	LMH	9J13072	6010B
Magnesium	**54.8**		0.200	NR	mg/L	1.00	10/15/09 01:00	LMH	9J13072	6010B
Manganese	**0.103**		0.0030	NR	mg/L	1.00	10/15/09 01:00	LMH	9J13072	6010B
Nickel	ND		0.0100	NR	mg/L	1.00	10/15/09 01:00	LMH	9J13072	6010B
Potassium	**3.28**		0.500	NR	mg/L	1.00	10/15/09 01:00	LMH	9J13072	6010B
Selenium	ND		0.0150	NR	mg/L	1.00	10/15/09 01:00	LMH	9J13072	6010B
Silver	ND		0.0030	NR	mg/L	1.00	10/15/09 01:00	LMH	9J13072	6010B
Sodium	**27.2**		1.0	NR	mg/L	1.00	10/15/09 01:00	LMH	9J13072	6010B
Thallium	ND		0.0200	NR	mg/L	1.00	10/15/09 01:00	LMH	9J13072	6010B
Vanadium	**0.0076**		0.0050	NR	mg/L	1.00	10/15/09 01:00	LMH	9J13072	6010B
Zinc	**0.0145**		0.0100	NR	mg/L	1.00	10/15/09 01:00	LMH	9J13072	6010B

Golder Associates, Inc. - Niagara Falls, NY
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Work Order: RSJ0665

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 10/09/09
Reported: 10/29/09 10:48

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0665-05 (DUP - Water) - cont.						**Sampled: 10/09/09**			**Recvd: 10/09/09 13:40**	
Total Metals by SW 846 Series Methods - cont.										
Mercury	ND	UJ	0.0002	NR	mg/L	1.00	10/13/09 14:51	MXM	9J13033	7470A
General Chemistry Parameters										
Cyanide	ND		0.0200	0.0050	mg/L	1.00	10/16/09 10:07	LRM	9J15058	9012A
Turbidity	**137**	B J	1.0	0.0	NTU	1.00	10/13/09 14:08	RMB	9J13007	180.1

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Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 10/09/09
Reported: 10/29/09 10:48

Analytical Report

Sample ID: RSJ0665-06 (MW-4 - Water) — **Sampled: 10/09/09 11:00** — **Recvd: 10/09/09 13:40**

Volatile Organic Compounds by EPA 8260B

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
1,1,1-Trichloroethane	ND		1.0	0.26	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
1,1-Dichloroethane	ND		1.0	0.38	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
1,1-Dichloroethene	ND		1.0	0.29	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
1,2-Dibromo-3-chloropropane	ND		1.0	0.39	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
1,2-Dibromoethane (EDB)	ND		1.0	0.17	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
1,2-Dichlorobenzene	ND		1.0	0.20	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
1,2-Dichloroethane	ND		1.0	0.21	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
1,2-Dichloroethene, Total	ND		2.0	0.70	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
1,2-Dichloropropane	ND		1.0	0.32	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
1,3-Dichlorobenzene	ND		1.0	0.36	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
2-Butanone (MEK)	ND		5.0	1.3	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
2-Hexanone	ND		5.0	1.2	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.91	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
Acetone	ND		5.0	1.3	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
Benzene	ND		1.0	0.41	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
Bromodichloromethane	ND		1.0	0.39	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
Bromoform	ND		1.0	0.26	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
Bromomethane	ND		1.0	0.28	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
Carbon disulfide	ND		1.0	0.19	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
Carbon Tetrachloride	ND		1.0	0.27	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
Chlorobenzene	ND		1.0	0.32	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
Chlorodibromomethane	ND		1.0	0.32	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
Chloroethane	ND		1.0	0.32	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
Chloroform	ND		1.0	0.34	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
Chloromethane	ND		1.0	0.35	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
cis-1,2-Dichloroethene	ND		1.0	0.38	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
Cyclohexane	ND		1.0	0.53	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
Dichlorodifluoromethane	ND		1.0	0.29	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
Ethylbenzene	ND		1.0	0.18	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
Isopropylbenzene	ND		1.0	0.19	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
Methyl Acetate	ND		1.0	0.50	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
Methyl tert-Butyl Ether	ND		1.0	0.16	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
Methylcyclohexane	ND		1.0	0.50	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
Methylene Chloride	ND		1.0	0.44	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
Styrene	ND		1.0	0.18	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
Tetrachloroethene	ND		1.0	0.36	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
Toluene	ND		1.0	0.51	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
Trichloroethene	ND		1.0	0.46	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
Trichlorofluoromethane	ND		1.0	0.15	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B

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Work Order: RSJ0665

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 10/09/09
Reported: 10/29/09 10:48

Analytical Report

Sample ID: RSJ0665-06 (MW-4 - Water) - cont. — **Sampled: 10/09/09 11:00** — **Recvd: 10/09/09 13:40**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Volatile Organic Compounds by EPA 8260B - cont.										
Vinyl acetate	ND		5.0	0.85	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
Vinyl chloride	ND		1.0	0.24	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
Xylenes, total	ND		2.0	0.66	ug/L	1.00	10/14/09 04:12	CDC	9J13110	8260B
1,2-Dichloroethane-d4	*104 %*		*Surr Limits: (66-137%)*				*10/14/09 04:12*	*CDC*	*9J13110*	*8260B*
4-Bromofluorobenzene	*88 %*		*Surr Limits: (73-120%)*				*10/14/09 04:12*	*CDC*	*9J13110*	*8260B*
Toluene-d8	*98 %*		*Surr Limits: (71-126%)*				*10/14/09 04:12*	*CDC*	*9J13110*	*8260B*
Semivolatile Organics by GC/MS										
2,4,5-Trichlorophenol	ND		5.0	0.98	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
2,4,6-Trichlorophenol	ND		5.0	0.98	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
2,4-Dichlorophenol	ND		5.0	0.78	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
2,4-Dimethylphenol	ND		5.0	0.95	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
2,4-Dinitrophenol	ND		9.9	2.2	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
2,4-Dinitrotoluene	ND		5.0	0.44	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
2,6-Dinitrotoluene	ND		5.0	0.50	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
2-Chloronaphthalene	ND		5.0	0.083	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
2-Chlorophenol	ND		5.0	0.50	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
2-Methylnaphthalene	ND		5.0	0.081	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
2-Methylphenol	ND		5.0	0.23	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
2-Nitroaniline	ND		9.9	0.49	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
2-Nitrophenol	ND		5.0	0.60	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
3 & 4 Methylphenol	ND		9.9	0.57	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
3,3'-Dichlorobenzidine	ND		5.0	0.37	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
3-Nitroaniline	ND		9.9	1.5	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
4,6-Dinitro-2-methylphenol	ND		9.9	2.2	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
4-Bromophenyl phenyl ether	ND		5.0	0.89	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
4-Chloro-3-methylphenol	ND		5.0	0.59	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
4-Chloroaniline	ND		5.0	0.33	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
4-Chlorophenyl phenyl ether	ND		5.0	0.17	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
4-Nitroaniline	ND	L2 UJ	9.9	0.45	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
4-Nitrophenol	ND		9.9	1.5	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Acenaphthene	ND		5.0	0.11	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Acenaphthylene	ND		5.0	0.047	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Acetophenone	ND		5.0	1.0	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Anthracene	ND		5.0	0.055	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Atrazine	ND		5.0	1.1	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Benzaldehyde	ND		5.0	0.26	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Benzo[a]anthracene	ND		5.0	0.063	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Benzo[a]pyrene	ND		5.0	0.090	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Benzo[b]fluoranthene	ND		5.0	0.062	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Benzo[g,h,i]perylene	ND		5.0	0.077	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Benzo[k]fluoranthene	ND		5.0	0.065	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Biphenyl	ND		5.0	0.65	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Bis(2-chloroethoxy)methane	ND		5.0	0.37	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Bis(2-chloroethyl)ether	ND		5.0	0.18	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Bis(2-chloroisopropyl) ether	ND		4.0	4.0	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C

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Work Order: RSJ0665

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 10/09/09
Reported: 10/29/09 10:48

Analytical Report

Sample ID: RSJ0665-06 (MW-4 - Water) - cont. — **Sampled: 10/09/09 11:00** — **Recvd: 10/09/09 13:40**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Semivolatile Organics by GC/MS - cont.										
Bis(2-ethylhexyl) phthalate	ND		5.0	4.7	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Butyl benzyl phthalate	ND		5.0	1.7	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Caprolactam	ND		5.0	4.5	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Carbazole	ND		5.0	0.088	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Chrysene	ND		5.0	0.27	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Dibenz[a,h]anthracene	ND		5.0	0.20	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Dibenzofuran	ND		9.9	1.6	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Diethyl phthalate	ND		5.0	0.11	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Dimethyl phthalate	ND		5.0	0.30	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Di-n-butyl phthalate	**0.40**	J	5.0	0.30	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Di-n-octyl phthalate	ND		5.0	0.24	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Fluoranthene	ND		5.0	0.097	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Fluorene	ND		5.0	0.073	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Hexachlorobenzene	ND		5.0	0.44	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Hexachlorobutadiene	ND		5.0	2.6	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Hexachlorocyclopentadiene	ND		5.0	2.5	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Hexachloroethane	ND		5.0	2.8	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Indeno[1,2,3-cd]pyrene	ND		5.0	0.15	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Isophorone	ND		5.0	0.32	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Naphthalene	ND		5.0	0.11	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Nitrobenzene	ND		5.0	0.53	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
N-Nitrosodi-n-propylamine	ND		5.0	0.45	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
N-Nitrosodiphenylamine	ND		5.0	0.26	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Pentachlorophenol	ND		9.9	5.1	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Phenanthrene	**0.86**	J	5.0	0.11	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Phenol	ND		5.0	0.44	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
Pyrene	ND		5.0	0.067	ug/L	1.00	10/16/09 04:10	JLG	9J12081	8270C
2,4,6-Tribromophenol	*123 %*		*Surr Limits: (52-132%)*				*10/16/09 04:10*	*JLG*	*9J12081*	*8270C*
2-Fluorobiphenyl	*85 %*		*Surr Limits: (48-120%)*				*10/16/09 04:10*	*JLG*	*9J12081*	*8270C*
2-Fluorophenol	*50 %*		*Surr Limits: (20-120%)*				*10/16/09 04:10*	*JLG*	*9J12081*	*8270C*
Nitrobenzene-d5	*81 %*		*Surr Limits: (46-120%)*				*10/16/09 04:10*	*JLG*	*9J12081*	*8270C*
Phenol-d5	*37 %*		*Surr Limits: (16-120%)*				*10/16/09 04:10*	*JLG*	*9J12081*	*8270C*
p-Terphenyl-d14	*67 %*		*Surr Limits: (24-136%)*				*10/16/09 04:10*	*JLG*	*9J12081*	*8270C*
Organochlorine Pesticides by EPA Method 8081A										
4,4'-DDD [2C]	ND	D02	0.25	0.083	ug/L	5.00	10/13/09 21:39	DGB	9J10012	8081A
4,4'-DDE [2C]	ND	D02	0.25	0.057	ug/L	5.00	10/13/09 21:39	DGB	9J10012	8081A
4,4'-DDT [2C]	ND	D02	0.25	0.054	ug/L	5.00	10/13/09 21:39	DGB	9J10012	8081A
Aldrin [2C]	ND	D02	0.25	0.033	ug/L	5.00	10/13/09 21:39	DGB	9J10012	8081A
alpha-BHC [2C]	ND	D02	0.25	0.033	ug/L	5.00	10/13/09 21:39	DGB	9J10012	8081A
alpha-Chlordane [2C]	ND	D02	0.25	0.073	ug/L	5.00	10/13/09 21:39	DGB	9J10012	8081A
beta-BHC [2C]	ND	D02	0.25	0.12	ug/L	5.00	10/13/09 21:39	DGB	9J10012	8081A
Chlordane [2C]	ND	D02	2.5	0.14	ug/L	5.00	10/13/09 21:39	DGB	9J10012	8081A
delta-BHC [2C]	ND	D02	0.25	0.050	ug/L	5.00	10/13/09 21:39	DGB	9J10012	8081A
Dieldrin [2C]	ND	D02	0.25	0.097	ug/L	5.00	10/13/09 21:39	DGB	9J10012	8081A
Endosulfan I [2C]	ND	D02	0.25	0.054	ug/L	5.00	10/13/09 21:39	DGB	9J10012	8081A
Endosulfan II [2C]	ND	D02	0.25	0.059	ug/L	5.00	10/13/09 21:39	DGB	9J10012	8081A
Endosulfan sulfate [2C]	ND	D02	0.25	0.078	ug/L	5.00	10/13/09 21:39	DGB	9J10012	8081A

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

Work Order: RSJ0665

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 10/09/09
Reported: 10/29/09 10:48

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0665-06 (MW-4 - Water) - cont.						**Sampled: 10/09/09 11:00**		**Recvd: 10/09/09 13:40**		
Organochlorine Pesticides by EPA Method 8081A - cont.										
Endrin [2C]	ND	D02	0.25	0.068	ug/L	5.00	10/13/09 21:39	DGB	9J10012	8081A
Endrin aldehyde [2C]	ND	D02	0.25	0.081	ug/L	5.00	10/13/09 21:39	DGB	9J10012	8081A
Endrin ketone [2C]	ND	D02	0.25	0.059	ug/L	5.00	10/13/09 21:39	DGB	9J10012	8081A
gamma-BHC (Lindane) [2C]	ND	D02	0.25	0.030	ug/L	5.00	10/13/09 21:39	DGB	9J10012	8081A
gamma-Chlordane [2C]	ND	D02	0.25	0.054	ug/L	5.00	10/13/09 21:39	DGB	9J10012	8081A
Heptachlor [2C]	ND	D02	0.25	0.042	ug/L	5.00	10/13/09 21:39	DGB	9J10012	8081A
Heptachlor epoxide [2C]	ND	D02	0.25	0.026	ug/L	5.00	10/13/09 21:39	DGB	9J10012	8081A
Methoxychlor [2C]	0.086	D02,J	0.25	0.070	ug/L	5.00	10/13/09 21:39	DGB	9J10012	8081A
Toxaphene [2C]	ND	D02	2.5	0.59	ug/L	5.00	10/13/09 21:39	DGB	9J10012	8081A
Decachlorobiphenyl [2C]	*	*D02,C*	*Surr Limits: (15-139%)*				*10/13/09 21:39*	*DGB*	*9J10012*	*8081A*
Tetrachloro-m-xylene [2C]	*69 %*	*D02*	*Surr Limits: (30-139%)*				*10/13/09 21:39*	*DGB*	*9J10012*	*8081A*
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016	ND	QSU	0.55	0.19	ug/L	1.00	10/13/09 10:43	SCH	9J10013	8082
Aroclor 1221	ND	QSU	0.55	0.19	ug/L	1.00	10/13/09 10:43	SCH	9J10013	8082
Aroclor 1232	ND	QSU	0.55	0.19	ug/L	1.00	10/13/09 10:43	SCH	9J10013	8082
Aroclor 1242	ND	QSU	0.55	0.19	ug/L	1.00	10/13/09 10:43	SCH	9J10013	8082
Aroclor 1248	ND	QSU	0.55	0.19	ug/L	1.00	10/13/09 10:43	SCH	9J10013	8082
Aroclor 1254	ND	QSU	0.55	0.27	ug/L	1.00	10/13/09 10:43	SCH	9J10013	8082
Aroclor 1260	ND	QSU	0.55	0.27	ug/L	1.00	10/13/09 10:43	SCH	9J10013	8082
Decachlorobiphenyl	*36 %*	*QSU*	*Surr Limits: (12-137%)*				*10/13/09 10:43*	*SCH*	*9J10013*	*8082*
Tetrachloro-m-xylene	*63 %*	*QSU*	*Surr Limits: (35-121%)*				*10/13/09 10:43*	*SCH*	*9J10013*	*8082*
Total Metals by SW 846 Series Methods										
Aluminum	**9.04**		0.200	NR	mg/L	1.00	10/15/09 01:05	LMH	9J13072	6010B
Antimony	ND		0.0200	NR	mg/L	1.00	10/15/09 01:05	LMH	9J13072	6010B
Arsenic	ND		0.0100	NR	mg/L	1.00	10/15/09 01:05	LMH	9J13072	6010B
Barium	**0.0990**		0.0020	NR	mg/L	1.00	10/15/09 01:05	LMH	9J13072	6010B
Beryllium	ND		0.0020	NR	mg/L	1.00	10/15/09 01:05	LMH	9J13072	6010B
Cadmium	ND		0.0010	NR	mg/L	1.00	10/15/09 01:05	LMH	9J13072	6010B
Calcium	**192**		0.5	NR	mg/L	1.00	10/15/09 01:05	LMH	9J13072	6010B
Chromium	**0.0143**		0.0040	NR	mg/L	1.00	10/15/09 01:05	LMH	9J13072	6010B
Cobalt	**0.0046**		0.0040	NR	mg/L	1.00	10/15/09 01:05	LMH	9J13072	6010B
Copper	**0.0113**		0.0100	NR	mg/L	1.00	10/15/09 01:05	LMH	9J13072	6010B
Iron	**12.6**		0.050	NR	mg/L	1.00	10/15/09 01:05	LMH	9J13072	6010B
Lead	**0.0137**		0.0050	NR	mg/L	1.00	10/15/09 01:05	LMH	9J13072	6010B
Magnesium	**96.8**		0.200	NR	mg/L	1.00	10/15/09 01:05	LMH	9J13072	6010B
Manganese	**0.527**		0.0030	NR	mg/L	1.00	10/15/09 01:05	LMH	9J13072	6010B
Nickel	**0.0107**		0.0100	NR	mg/L	1.00	10/15/09 01:05	LMH	9J13072	6010B
Potassium	**6.60**		0.500	NR	mg/L	1.00	10/15/09 01:05	LMH	9J13072	6010B
Selenium	ND		0.0150	NR	mg/L	1.00	10/15/09 01:05	LMH	9J13072	6010B
Silver	ND		0.0030	NR	mg/L	1.00	10/15/09 01:05	LMH	9J13072	6010B
Sodium	**24.5**		1.0	NR	mg/L	1.00	10/15/09 01:05	LMH	9J13072	6010B
Thallium	ND		0.0200	NR	mg/L	1.00	10/15/09 01:05	LMH	9J13072	6010B
Vanadium	**0.0163**		0.0050	NR	mg/L	1.00	10/15/09 01:05	LMH	9J13072	6010B
Zinc	**0.0825**		0.0100	NR	mg/L	1.00	10/15/09 01:05	LMH	9J13072	6010B

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Work Order: RSJ0665

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 10/09/09
Reported: 10/29/09 10:48

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0665-06 (MW-4 - Water) - cont.							**Sampled: 10/09/09 11:00**		**Recvd: 10/09/09 13:40**	
Total Metals by SW 846 Series Methods - cont.										
Mercury	ND	UJ	0.0002	NR	mg/L	1.00	10/13/09 14:56	MXM	9J13033	7470A
General Chemistry Parameters										
Cyanide	ND		0.0200	0.0050	mg/L	1.00	10/16/09 10:07	LRM	9J15058	9012A
Turbidity	**467**	B	1.0	0.0	NTU	1.00	10/13/09 14:08	RMB	9J13007	180.1

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Work Order: RSJ0665

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 10/09/09
Reported: 10/29/09 10:48

Analytical Report

Sample ID: RSJ0665-07 (TRIP BLANK - Water) — Sampled: 10/09/09 — Recvd: 10/09/09 13:40

Volatile Organic Compounds by EPA 8260B

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
1,1,1-Trichloroethane	ND		1.0	0.26	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
1,1,2-Trichlorotrifluoroethane	ND		1.0	0.31	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
1,1-Dichloroethane	ND		1.0	0.38	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
1,1-Dichloroethene	ND		1.0	0.29	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
1,2-Dibromo-3-chloropropane	ND		1.0	0.39	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
1,2-Dibromoethane (EDB)	ND		1.0	0.17	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
1,2-Dichlorobenzene	ND		1.0	0.20	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
1,2-Dichloroethane	ND		1.0	0.21	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
1,2-Dichloroethene, Total	ND		2.0	0.70	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
1,2-Dichloropropane	ND		1.0	0.32	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
1,3-Dichlorobenzene	ND		1.0	0.36	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
1,4-Dichlorobenzene	ND		1.0	0.39	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
2-Butanone (MEK)	ND		5.0	1.3	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
2-Hexanone	ND		5.0	1.2	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.91	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
Acetone	ND		5.0	1.3	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
Benzene	ND		1.0	0.41	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
Bromodichloromethane	ND		1.0	0.39	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
Bromoform	ND		1.0	0.26	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
Bromomethane	ND		1.0	0.28	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
Carbon disulfide	ND		1.0	0.19	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
Carbon Tetrachloride	ND		1.0	0.27	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
Chlorobenzene	ND		1.0	0.32	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
Chlorodibromomethane	ND		1.0	0.32	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
Chloroethane	ND		1.0	0.32	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
Chloroform	ND		1.0	0.34	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
Chloromethane	ND		1.0	0.35	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
cis-1,2-Dichloroethene	ND		1.0	0.38	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
Cyclohexane	ND		1.0	0.53	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
Dichlorodifluoromethane	ND		1.0	0.29	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
Ethylbenzene	ND		1.0	0.18	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
Isopropylbenzene	ND		1.0	0.19	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
Methyl Acetate	ND		1.0	0.50	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
Methyl tert-Butyl Ether	ND		1.0	0.16	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
Methylcyclohexane	ND		1.0	0.50	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
Methylene Chloride	ND		1.0	0.44	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
Styrene	ND		1.0	0.18	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
Tetrachloroethene	ND		1.0	0.36	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
Toluene	ND		1.0	0.51	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
trans-1,2-Dichloroethene	ND		1.0	0.42	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
Trichloroethene	ND		1.0	0.46	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
Trichlorofluoromethane	ND		1.0	0.15	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B

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Work Order: RSJ0665

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 10/09/09
Reported: 10/29/09 10:48

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Sample ID: RSJ0665-07 (TRIP BLANK - Water) - cont.						**Sampled: 10/09/09**			**Recvd: 10/09/09 13:40**	
Volatile Organic Compounds by EPA 8260B - cont.										
Vinyl acetate	ND	R	5.0	0.85	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
Vinyl chloride	ND		1.0	0.24	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
Xylenes, total	ND		2.0	0.66	ug/L	1.00	10/12/09 19:39	LH	9J12023	8260B
1,2-Dichloroethane-d4	*114 %*		*Surr Limits: (66-137%)*				*10/12/09 19:39*	*LH*	*9J12023*	*8260B*
4-Bromofluorobenzene	*92 %*		*Surr Limits: (73-120%)*				*10/12/09 19:39*	*LH*	*9J12023*	*8260B*
Toluene-d8	*100 %*		*Surr Limits: (71-126%)*				*10/12/09 19:39*	*LH*	*9J12023*	*8260B*

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Work Order: RSJ0665

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 10/09/09
Reported: 10/29/09 10:48

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
General Chemistry Parameters									
180.1	9J13007	RSJ0665-01	1.00	mL	1.00	mL	10/12/09 22:00	JME	No prep Turbidity
180.1	9J13007	RSJ0665-02	1.00	mL	1.00	mL	10/12/09 22:00	JME	No prep Turbidity
180.1	9J13007	RSJ0665-05	1.00	mL	1.00	mL	10/12/09 22:00	JME	No prep Turbidity
180.1	9J13007	RSJ0665-06	1.00	mL	1.00	mL	10/12/09 22:00	JME	No prep Turbidity
9012A	9J15058	RSJ0665-01	50.00	mL	50.00	mL	10/15/09 13:16	RJP	Cn Digestion
9012A	9J15058	RSJ0665-02	50.00	mL	50.00	mL	10/15/09 13:16	RJP	Cn Digestion
9012A	9J15058	RSJ0665-05	50.00	mL	50.00	mL	10/15/09 13:16	RJP	Cn Digestion
9012A	9J15058	RSJ0665-06	50.00	mL	50.00	mL	10/15/09 13:16	RJP	Cn Digestion
Organochlorine Pesticides by EPA Method 8081A									
8081A	9J10012	RSJ0665-01	1,010.00	mL	10.00	mL	10/12/09 08:00	EKD	3510C GC
8081A	9J10012	RSJ0665-02	1,010.00	mL	10.00	mL	10/12/09 08:00	EKD	3510C GC
8081A	9J10012	RSJ0665-05	1,010.00	mL	10.00	mL	10/12/09 08:00	EKD	3510C GC
8081A	9J10012	RSJ0665-06	1,010.00	mL	10.00	mL	10/12/09 08:00	EKD	3510C GC
Polychlorinated Biphenyls by EPA Method 8082									
8082	9J10013	RSJ0665-06	910.00	mL	10.00	mL	10/12/09 08:00	BML	3510C GC
8082	9J10013	RSJ0665-01	1,010.00	mL	10.00	mL	10/12/09 08:00	BML	3510C GC
8082	9J10013	RSJ0665-02	1,010.00	mL	10.00	mL	10/12/09 08:00	BML	3510C GC
8082	9J10013	RSJ0665-05	1,010.00	mL	10.00	mL	10/12/09 08:00	BML	3510C GC
Semivolatile Organics by GC/MS									
8270C	9J12081	RSJ0665-05	960.00	mL	1.00	mL	10/13/09 08:00	BML	3510C MB
8270C	9J12081	RSJ0665-02	970.00	mL	1.00	mL	10/13/09 08:00	BML	3510C MB
8270C	9J12081	RSJ0665-01	1,010.00	mL	1.00	mL	10/13/09 08:00	BML	3510C MB
8270C	9J12081	RSJ0665-06	1,010.00	mL	1.00	mL	10/13/09 08:00	BML	3510C MB
Total Metals by SW 846 Series Methods									
6010B	9J13072	RSJ0665-01	50.00	mL	50.00	mL	10/14/09 10:00	KCW	3005A
6010B	9J13072	RSJ0665-02	50.00	mL	50.00	mL	10/14/09 10:00	KCW	3005A
6010B	9J13072	RSJ0665-05	50.00	mL	50.00	mL	10/14/09 10:00	KCW	3005A
6010B	9J13072	RSJ0665-06	50.00	mL	50.00	mL	10/14/09 10:00	KCW	3005A
7470A	9J13033	RSJ0665-01	30.00	mL	50.00	mL	10/13/09 11:30	MXM	7470A
7470A	9J13033	RSJ0665-02	30.00	mL	50.00	mL	10/13/09 11:30	MXM	7470A
7470A	9J13033	RSJ0665-05	30.00	mL	50.00	mL	10/13/09 11:30	MXM	7470A
7470A	9J13033	RSJ0665-06	30.00	mL	50.00	mL	10/13/09 11:30	MXM	7470A
Volatile Organic Compounds by EPA 8260B									
8260B	9J13110	RSJ0665-01	5.00	mL	5.00	mL	10/14/09 00:20	CDC	5030B MS
8260B	9J13110	RSJ0665-02	5.00	mL	5.00	mL	10/14/09 00:20	CDC	5030B MS
8260B	9J13110	RSJ0665-05	5.00	mL	5.00	mL	10/14/09 00:20	CDC	5030B MS
8260B	9J13110	RSJ0665-06	5.00	mL	5.00	mL	10/14/09 00:20	CDC	5030B MS

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SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Client ID: B-1(0-4) (RSI0643-01 - Solid) — Sampled: 09/17/09 09:15 — Recvd: 09/17/09 16:47

Volatile Organic Compounds by EPA 8260B

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
1,1,1-Trichloroethane	ND		5.4	0.39	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
1,1,2,2-Tetrachloroethane	ND		5.4	0.87	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
1,1,2-Trichloroethane	ND		5.4	0.27	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
1,1,2-Trichlorotrifluoroethane	ND		5.4	0.57	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
1,1-Dichloroethane	ND		5.4	0.27	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
1,1-Dichloroethene	ND		5.4	0.66	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
1,2,4-Trichlorobenzene	ND		5.4	0.33	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
1,2-Dibromo-3-chloropropane	ND		5.4	1.1	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
1,2-Dibromoethane (EDB)	ND		5.4	0.20	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
1,2-Dichlorobenzene	ND		5.4	0.81	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
1,2-Dichloroethane	ND		5.4	0.27	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
1,2-Dichloroethene, Total	ND		11	2.8	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
1,2-Dichloropropane	ND		5.4	0.28	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
1,3-Dichlorobenzene	ND		5.4	0.76	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
1,4-Dichlorobenzene	ND		5.4	0.76	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
2-Butanone (MEK)	ND		27	7.3	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
2-Hexanone	ND		27	1.9	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
4-Methyl-2-pentanone (MIBK)	ND		27	1.8	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
Acetone	ND		27	1.2	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
Benzene	ND		5.4	0.26	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
Bromodichloromethane	ND		5.4	0.28	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
Bromoform	ND		5.4	0.50	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
Bromomethane	ND		5.4	0.50	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
Carbon disulfide	ND		5.4	0.46	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
Carbon Tetrachloride	ND		5.4	0.20	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
Chlorobenzene	ND		5.4	0.24	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
Chlorodibromomethane	ND		5.4	0.30	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
Chloroethane	ND	L	5.4	0.87	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
Chloroform	ND		5.4	0.33	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
Chloromethane	ND		5.4	0.33	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
cis-1,2-Dichloroethene	ND		5.4	0.27	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
cis-1,3-Dichloropropene	ND		5.4	0.31	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
Cyclohexane	ND		5.4	0.25	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
Dichlorodifluoromethane	ND		5.4	0.45	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
Ethylbenzene	ND		5.4	0.37	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
Isopropylbenzene	ND		5.4	0.35	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
Methyl Acetate	ND		5.4	0.29	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
Methyl tert-Butyl Ether	ND		5.4	0.53	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
Methylcyclohexane	ND		5.4	0.35	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
Methylene Chloride	ND 4.7	B, J	5.4	0.38	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
Styrene	ND		5.4	0.27	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
Tetrachloroethene	ND		5.4	0.72	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
Toluene	ND		5.4	0.91	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
trans-1,2-Dichloroethene	ND		5.4	0.56	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
trans-1,3-Dichloropropene	ND		5.4	0.26	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
Trichloroethene	ND		5.4	0.37	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Client ID: B-1(0-4) (RSI0643-01 - Solid) - cont. — **Sampled: 09/17/09 09:15** — **Recvd: 09/17/09 16:47**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Volatile Organic Compounds by EPA 8260B - cont.										
Trichlorofluoromethane	ND		5.4	1.7	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
Vinyl acetate	ND		27	1.1	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
Vinyl chloride	ND		11	0.22	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
Xylenes, total	ND		11	0.91	ug/kg dry	1.00	09/23/09 20:20	PQ	9I23060	8260B
1,2-Dichloroethane-d4	*101 %*		*Surr Limits: (64-126%)*				*09/23/09 20:20*	*PQ*	*9I23060*	*8260B*
4-Bromofluorobenzene	*107 %*		*Surr Limits: (72-126%)*				*09/23/09 20:20*	*PQ*	*9I23060*	*8260B*
Toluene-d8	*115 %*		*Surr Limits: (71-125%)*				*09/23/09 20:20*	*PQ*	*9I23060*	*8260B*
Semivolatile Organics by GC/MS										
2,4,5-Trichlorophenol	ND		190	41	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
2,4,6-Trichlorophenol	ND		190	13	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
2,4-Dichlorophenol	ND		190	9.9	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
2,4-Dimethylphenol	ND		190	51	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
2,4-Dinitrophenol	ND		370	66	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
2,4-Dinitrotoluene	ND		190	29	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
2,6-Dinitrotoluene	ND		190	46	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
2-Chloronaphthalene	ND		190	13	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
2-Chlorophenol	ND		190	9.7	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
2-Methylnaphthalene	ND		190	2.3	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
2-Methylphenol	ND		190	5.8	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
2-Nitroaniline	ND		370	61	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
2-Nitrophenol	ND		190	8.7	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
3 & 4 Methylphenol	ND		370	11	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
3,3'-Dichlorobenzidine	ND		190	170	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
3-Nitroaniline	ND		370	44	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
4,6-Dinitro-2-methylphenol	ND		370	65	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
4-Bromophenyl phenyl ether	ND		190	60	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
4-Chloro-3-methylphenol	ND		190	7.8	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
4-Chloroaniline	ND		190	56	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
4-Chlorophenyl phenyl ether	ND		190	4.0	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
4-Nitroaniline	ND		370	21	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
4-Nitrophenol	ND		370	46	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Acenaphthene	ND		190	2.2	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Acenaphthylene	ND		190	1.6	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Acetophenone	ND		190	9.7	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Anthracene	ND		190	4.9	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Atrazine	ND	N1	190	8.4	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Benzaldehyde	ND		190	21	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Benzo[a]anthracene	ND		190	3.3	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Benzo[a]pyrene	ND		190	4.6	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Benzo[b]fluoranthene	ND		190	3.7	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Benzo[g,h,i]perylene	ND		190	2.3	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Benzo[k]fluoranthene	ND		190	2.1	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Biphenyl	ND		190	12	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Bis(2-chloroethoxy)methane	ND		190	10	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Bis(2-chloroethyl)ether	ND		190	16	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
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SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Client ID: B-1(0-4) (RSI0643-01 - Solid) - cont. — **Sampled: 09/17/09 09:15** — **Recvd: 09/17/09 16:47**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Semivolatile Organics by GC/MS - cont.										
Bis(2-chloroisopropyl) ether	ND		190	20	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Bis(2-ethylhexyl) phthalate	ND		190	61	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Butyl benzyl phthalate	ND		190	51	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Caprolactam	ND		190	82	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Carbazole	ND		190	2.2	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Chrysene	ND		190	1.9	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Dibenz[a,h]anthracene	ND		190	2.2	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Dibenzofuran	ND		190	2.0	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Diethyl phthalate	ND		190	5.7	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Dimethyl phthalate	ND		190	4.9	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Di-n-butyl phthalate	ND		190	66	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Di-n-octyl phthalate	ND		190	4.4	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Fluoranthene	ND		190	2.7	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Fluorene	ND		190	4.4	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Hexachlorobenzene	ND		190	9.4	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Hexachlorobutadiene	ND		190	9.7	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Hexachlorocyclopentadiene	ND		190	57	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Hexachloroethane	ND		190	15	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Indeno[1,2,3-cd]pyrene	ND		190	5.2	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Isophorone	ND		190	9.5	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Naphthalene	ND		190	3.2	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Nitrobenzene	ND		190	8.4	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
N-Nitrosodi-n-propylamine	ND		190	15	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
N-Nitrosodiphenylamine	ND	L	190	10	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Phenanthrene	ND		190	4.0	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Phenol	ND		190	20	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
Pyrene	ND		190	1.2	ug/kg dry	1.00	09/23/09 20:02	JLG	9I18138	8270C
2,4,6-Tribromophenol	*78 %*		*Surr Limits: (39-146%)*				*09/23/09 20:02*	*JLG*	*9I18138*	*8270C*
2-Fluorobiphenyl	*77 %*		*Surr Limits: (37-120%)*				*09/23/09 20:02*	*JLG*	*9I18138*	*8270C*
2-Fluorophenol	*73 %*		*Surr Limits: (18-120%)*				*09/23/09 20:02*	*JLG*	*9I18138*	*8270C*
Nitrobenzene-d5	*74 %*		*Surr Limits: (34-132%)*				*09/23/09 20:02*	*JLG*	*9I18138*	*8270C*
Phenol-d5	*80 %*		*Surr Limits: (11-120%)*				*09/23/09 20:02*	*JLG*	*9I18138*	*8270C*
p-Terphenyl-d14	*82 %*		*Surr Limits: (58-147%)*				*09/23/09 20:02*	*JLG*	*9I18138*	*8270C*
Organochlorine Pesticides by EPA Method 8081A										
4,4'-DDD	ND	QFL	3.7	0.73	ug/kg dry	2.00	09/28/09 21:44	MAN	9I20007	8081A
4,4'-DDE	ND	QFL	3.7	1.1	ug/kg dry	2.00	09/28/09 21:44	MAN	9I20007	8081A
4,4'-DDT	ND	QFL	3.7	0.85	ug/kg dry	2.00	09/28/09 21:44	MAN	9I20007	8081A
Aldrin	ND	QFL	3.7	0.38	ug/kg dry	2.00	09/28/09 21:44	MAN	9I20007	8081A
alpha-BHC	ND	QFL	3.7	0.67	ug/kg dry	2.00	09/28/09 21:44	MAN	9I20007	8081A
alpha-Chlordane	ND	QFL	3.7	1.9	ug/kg dry	2.00	09/28/09 21:44	MAN	9I20007	8081A
beta-BHC	ND	QFL	3.7	2.7	ug/kg dry	2.00	09/28/09 21:44	MAN	9I20007	8081A
Chlordane	ND	QFL	37	8.3	ug/kg dry	2.00	09/28/09 21:44	MAN	9I20007	8081A
delta-BHC	ND	QFL	3.7	0.49	ug/kg dry	2.00	09/28/09 21:44	MAN	9I20007	8081A
Dieldrin	**14** NJ	QFL	3.7	0.90	ug/kg dry	2.00	09/28/09 21:44	MAN	9I20007	8081A
Endosulfan I	ND	QFL	3.7	0.79	ug/kg dry	2.00	09/28/09 21:44	MAN	9I20007	8081A
Endosulfan II	ND	QFL	3.7	0.67	ug/kg dry	2.00	09/28/09 21:44	MAN	9I20007	8081A

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Received: 09/17/09-09/21/09
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Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: B-1(0-4) (RSI0643-01 - Solid) - cont.						**Sampled: 09/17/09 09:15**		**Recvd: 09/17/09 16:47**		
Organochlorine Pesticides by EPA Method 8081A - cont.										
Endosulfan sulfate	ND	QFL	3.7	0.70	ug/kg dry	2.00	09/28/09 21:44	MAN	9I20007	8081A
Endrin	**4.7**	NJ QFL	3.7	1.2	ug/kg dry	2.00	09/28/09 21:44	MAN	9I20007	8081A
Endrin aldehyde	ND	QFL	3.7	0.95	ug/kg dry	2.00	09/28/09 21:44	MAN	9I20007	8081A
Endrin ketone	ND	QFL	3.7	0.92	ug/kg dry	2.00	09/28/09 21:44	MAN	9I20007	8081A
gamma-BHC (Lindane)	ND	QFL	3.7	0.65	ug/kg dry	2.00	09/28/09 21:44	MAN	9I20007	8081A
gamma-Chlordane	**2.1**	NJ QFL,J	3.7	0.51	ug/kg dry	2.00	09/28/09 21:44	MAN	9I20007	8081A
Heptachlor	ND	QFL	3.7	0.58	ug/kg dry	2.00	09/28/09 21:44	MAN	9I20007	8081A
Heptachlor epoxide	ND	QFL	3.7	0.96	ug/kg dry	2.00	09/28/09 21:44	MAN	9I20007	8081A
Methoxychlor	ND	QFL	3.7	1.0	ug/kg dry	2.00	09/28/09 21:44	MAN	9I20007	8081A
Toxaphene	ND	QFL	37	22	ug/kg dry	2.00	09/28/09 21:44	MAN	9I20007	8081A
Decachlorobiphenyl	*181 %*	*QFL,Z1*	*Surr Limits: (42-146%)*				*09/28/09 21:44*	*MAN*	*9I20007*	*8081A*
Tetrachloro-m-xylene	*86 %*	*QFL*	*Surr Limits: (37-136%)*				*09/28/09 21:44*	*MAN*	*9I20007*	*8081A*
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016	ND	QSU, D08	37	7.3	ug/kg dry	2.00	09/22/09 10:16	SCH	9I20006	8082
Aroclor 1221	ND	QSU, D08	37	7.3	ug/kg dry	2.00	09/22/09 10:16	SCH	9I20006	8082
Aroclor 1232	ND	QSU, D08	37	7.3	ug/kg dry	2.00	09/22/09 10:16	SCH	9I20006	8082
Aroclor 1242	ND	QSU, D08	37	8.1	ug/kg dry	2.00	09/22/09 10:16	SCH	9I20006	8082
Aroclor 1248	ND	QSU, D08	37	7.3	ug/kg dry	2.00	09/22/09 10:16	SCH	9I20006	8082
Aroclor 1254	ND	QSU, D08	37	7.9	ug/kg dry	2.00	09/22/09 10:16	SCH	9I20006	8082
Aroclor 1260	**490**	J QSU, D08	37	7.9	ug/kg dry	2.00	09/22/09 10:16	SCH	9I20006	8082
Decachlorobiphenyl	*114 %*	*QSU, D08*	*Surr Limits: (34-148%)*				*09/22/09 10:16*	*SCH*	*9I20006*	*8082*
Tetrachloro-m-xylene	*88 %*	*QSU, D08*	*Surr Limits: (35-134%)*				*09/22/09 10:16*	*SCH*	*9I20006*	*8082*
Total Metals by SW 846 Series Methods										
Aluminum	**5930**		11.6	NR	mg/kg dry	1.00	09/25/09 02:28	LMH	9I23026	6010B
Antimony	ND	UJ	17.3	NR	mg/kg dry	1.00	09/24/09 01:10	AMH	9I23026	6010B
Arsenic	**6.2**	J	2.3	NR	mg/kg dry	1.00	09/24/09 01:10	AMH	9I23026	6010B
Barium	**50.6**	J	0.578	NR	mg/kg dry	1.00	09/24/09 01:10	AMH	9I23026	6010B
Beryllium	**0.359**		0.231	NR	mg/kg dry	1.00	09/24/09 01:10	AMH	9I23026	6010B
Cadmium	**0.373**		0.231	NR	mg/kg dry	1.00	09/24/09 01:10	AMH	9I23026	6010B
Calcium	**83800**	J D08	289	NR	mg/kg dry	5.00	09/26/09 10:26	LMH	9I23026	6010B
Chromium	**8.26**	J	0.578	NR	mg/kg dry	1.00	09/24/09 01:10	AMH	9I23026	6010B
Cobalt	**3.83**		0.578	NR	mg/kg dry	1.00	09/24/09 01:10	AMH	9I23026	6010B
Copper	**18.3**	J	1.2	NR	mg/kg dry	1.00	09/24/09 01:10	AMH	9I23026	6010B
Iron	**13400**	J B3, B1, B	11.6	NR	mg/kg dry	1.00	09/24/09 01:10	AMH	9I23026	6010B
Lead	**291**	J	1.2	NR	mg/kg dry	1.00	09/24/09 01:10	AMH	9I23026	6010B
Magnesium	**10800**	J	23.1	NR	mg/kg dry	1.00	09/24/09 01:10	AMH	9I23026	6010B
Manganese	**385**	J B1, B	0.2	NR	mg/kg dry	1.00	09/24/09 01:10	AMH	9I23026	6010B
Nickel	**8.07**	J	5.78	NR	mg/kg dry	1.00	09/24/09 01:10	AMH	9I23026	6010B
Potassium	**993**		34.7	NR	mg/kg dry	1.00	09/24/09 01:10	AMH	9I23026	6010B
Selenium	ND	UJ	4.6	NR	mg/kg dry	1.00	09/24/09 01:10	AMH	9I23026	6010B
Silver	ND		0.578	NR	mg/kg dry	1.00	09/24/09 01:10	AMH	9I23026	6010B
Sodium	**363**		162	NR	mg/kg dry	1.00	09/24/09 01:10	AMH	9I23026	6010B
Thallium	ND		6.9	NR	mg/kg dry	1.00	09/24/09 01:10	AMH	9I23026	6010B
Vanadium	**13.2**	J	0.578	NR	mg/kg dry	1.00	09/24/09 01:10	AMH	9I23026	6010B
Zinc	**154**	J	2.3	NR	mg/kg dry	1.00	09/24/09 01:10	AMH	9I23026	6010B
Mercury	**0.149**		0.0219	NR	mg/kg dry	1.00	09/25/09 14:29	MXM	9I24107	7471A

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: B-1(0-4) (RSI0643-01 - Solid) - cont.						**Sampled: 09/17/09 09:15**		**Recvd: 09/17/09 16:47**		
General Chemistry Parameters										
Percent Solids	**88**		0.010	NR	%	1.00	09/20/09 14:38	KMB	9I19015	Dry Weight
Cyanide	ND	U5	1.1	1.0	mg/kg dry	1.00	09/23/09 09:45	jmm	9I23015	9012A

Golder Associates, Inc. - Niagara Falls, NY
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SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: B-10 (0-2) (RSI0643-06 - Solid)						**Sampled: 09/17/09 14:49**		**Recvd: 09/17/09 16:47**		
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016	ND	QSU	18	3.5	ug/kg dry	1.00	09/22/09 11:00	SCH	9I20006	8082
Aroclor 1221	ND	QSU	18	3.5	ug/kg dry	1.00	09/22/09 11:00	SCH	9I20006	8082
Aroclor 1232	ND	QSU	18	3.5	ug/kg dry	1.00	09/22/09 11:00	SCH	9I20006	8082
Aroclor 1242	ND	QSU	18	3.9	ug/kg dry	1.00	09/22/09 11:00	SCH	9I20006	8082
Aroclor 1248	ND	QSU	18	3.5	ug/kg dry	1.00	09/22/09 11:00	SCH	9I20006	8082
Aroclor 1254	ND	QSU	18	3.7	ug/kg dry	1.00	09/22/09 11:00	SCH	9I20006	8082
Aroclor 1260	**180** J	QSU	18	3.7	ug/kg dry	1.00	09/22/09 11:00	SCH	9I20006	8082
Decachlorobiphenyl	*144 %*	*QSU*	*Surr Limits: (34-148%)*				*09/22/09 11:00*	*SCH*	*9I20006*	*8082*
Tetrachloro-m-xylene	*92 %*	*QSU*	*Surr Limits: (35-134%)*				*09/22/09 11:00*	*SCH*	*9I20006*	*8082*
General Chemistry Parameters										
Percent Solids	**93**		0.010	NR	%	1.00	09/20/09 14:44	KMB	9I19015	Dry Weight

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Client ID: B-10 (RSI0643-03 - Solid) — **Sampled: 09/17/09 15:05** — **Recvd: 09/17/09 16:47**

Volatile Organic Compounds by EPA 8260B

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
1,1,1-Trichloroethane	ND	M8	5.6	0.40	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
1,1,2,2-Tetrachloroethane	ND	M8	5.6	0.90	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
1,1,2-Trichloroethane	ND	M8	5.6	0.28	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
1,1,2-Trichlorotrifluoroethane	ND	M8	5.6	0.59	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
1,1-Dichloroethane	ND	M8	5.6	0.27	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
1,1-Dichloroethene	ND	M8	5.6	0.68	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
1,2,4-Trichlorobenzene	ND	M8	5.6	0.34	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
1,2-Dibromo-3-chloropropane	ND	M8	5.6	1.1	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
1,2-Dibromoethane (EDB)	ND	M8	5.6	0.21	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
1,2-Dichlorobenzene	ND	M8	5.6	0.84	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
1,2-Dichloroethane	ND	M8	5.6	0.28	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
1,2-Dichloroethene, Total	ND	M8	11	2.9	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
1,2-Dichloropropane	ND	M8	5.6	0.28	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
1,3-Dichlorobenzene	ND	M8	5.6	0.79	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
1,4-Dichlorobenzene	ND	M8	5.6	0.78	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
2-Butanone (MEK)	ND	M8	28	7.6	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
2-Hexanone	ND	M8	28	1.9	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
4-Methyl-2-pentanone (MIBK)	ND	M8	28	1.8	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
Acetone	ND	M8	28	1.2	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
Benzene	ND	M8	5.6	0.27	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
Bromodichloromethane	ND	M8	5.6	0.29	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
Bromoform	ND	M8	5.6	0.51	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
Bromomethane	ND	M8	5.6	0.51	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
Carbon disulfide	ND	M8	5.6	0.48	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
Carbon Tetrachloride	ND	M8	5.6	0.20	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
Chlorobenzene	ND	M8	5.6	0.24	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
Chlorodibromomethane	ND	M8	5.6	0.31	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
Chloroethane	ND	L	5.6	0.90	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
Chloroform	ND	M8	5.6	0.34	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
Chloromethane	ND		5.6	0.34	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
cis-1,2-Dichloroethene	ND	M8	5.6	0.27	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
cis-1,3-Dichloropropene	ND	M8	5.6	0.32	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
Cyclohexane	ND	M8	5.6	0.26	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
Dichlorodifluoromethane	ND	M8	5.6	0.46	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
Ethylbenzene	ND	M8	5.6	0.38	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
Isopropylbenzene	ND	M8	5.6	0.36	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
Methyl Acetate	ND		5.6	0.30	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
Methyl tert-Butyl Ether	ND		5.6	0.55	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
Methylcyclohexane	ND	M8	5.6	0.36	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
Methylene Chloride	ND 3.4	B, J U	5.6	0.39	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
Styrene	ND	M8	5.6	0.28	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
Tetrachloroethene	ND	M8	5.6	0.75	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
Toluene	ND	M8	5.6	0.94	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
trans-1,2-Dichloroethene	ND	M8	5.6	0.57	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
trans-1,3-Dichloropropene	ND	M8	5.6	0.27	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
Trichloroethene	ND	M8	5.6	0.38	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Client ID: B-10 (RSI0643-03 - Solid) - cont. — **Sampled: 09/17/09 15:05** — **Recvd: 09/17/09 16:47**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Volatile Organic Compounds by EPA 8260B - cont.										
Trichlorofluoromethane	ND	M8	5.6	1.7	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
Vinyl acetate	ND	M8	28	1.2	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
Vinyl chloride	ND	M8	11	0.23	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
Xylenes, total	ND		11	0.93	ug/kg dry	1.00	09/23/09 21:10	PQ	9I23060	8260B
1,2-Dichloroethane-d4	*102 %*		*Surr Limits: (64-126%)*				*09/23/09 21:10*	*PQ*	*9I23060*	*8260B*
4-Bromofluorobenzene	*106 %*		*Surr Limits: (72-126%)*				*09/23/09 21:10*	*PQ*	*9I23060*	*8260B*
Toluene-d8	*117 %*		*Surr Limits: (71-125%)*				*09/23/09 21:10*	*PQ*	*9I23060*	*8260B*
Semivolatile Organics by GC/MS										
2,4,5-Trichlorophenol	ND	D12	3800	830	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
2,4,6-Trichlorophenol	ND	D12	3800	250	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
2,4-Dichlorophenol	ND	D12	3800	200	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
2,4-Dimethylphenol	ND	D12	3800	1000	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
2,4-Dinitrophenol	ND	D12,M8	7400	1300	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
2,4-Dinitrotoluene	ND	D12	3800	590	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
2,6-Dinitrotoluene	ND	D12	3800	930	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
2-Chloronaphthalene	ND	D12	3800	250	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
2-Chlorophenol	ND	D12	3800	190	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
2-Methylnaphthalene	ND	D12	3800	46	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
2-Methylphenol	ND	D12	3800	120	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
2-Nitroaniline	ND	D12	7400	1200	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
2-Nitrophenol	ND	D12	3800	170	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
3 & 4 Methylphenol	ND	D12	7400	210	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
3,3'-Dichlorobenzidine	ND	D12,M8	3800	3300	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
3-Nitroaniline	ND	D12	7400	870	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
4,6-Dinitro-2-methylphenol	ND	D12	7400	1300	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
4-Bromophenyl phenyl ether	ND	D12	3800	1200	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
4-Chloro-3-methylphenol	ND	D12	3800	160	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
4-Chloroaniline	ND	D12	3800	1100	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
4-Chlorophenyl phenyl ether	ND	D12	3800	81	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
4-Nitroaniline	ND	D12	7400	420	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
4-Nitrophenol	ND	D12	7400	920	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Acenaphthene	ND	D12	3800	45	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Acenaphthylene	ND	D12	3800	31	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Acetophenone	ND	D12	3800	190	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Anthracene	ND	D12	3800	97	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Atrazine	ND	D12,N1	3800	170	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Benzaldehyde	ND	D12	3800	420	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Benzo[a]anthracene	**340**	D12,J	3800	65	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Benzo[a]pyrene	**290**	D12,J	3800	91	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Benzo[b]fluoranthene	**400**	D12,J	3800	74	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Benzo[g,h,i]perylene	ND	D12	3800	46	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Benzo[k]fluoranthene	**220**	D12,J	3800	42	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Biphenyl	ND	D12	3800	240	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Bis(2-chloroethoxy)methane	ND	D12,M8	3800	210	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Bis(2-chloroethyl)ether	ND	D12	3800	330	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Client ID: B-10 (RSI0643-03 - Solid) - cont. **Sampled: 09/17/09 15:05** **Recvd: 09/17/09 16:47**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Semivolatile Organics by GC/MS - cont.										
Bis(2-chloroisopropyl) ether	ND	D12	3800	400	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Bis(2-ethylhexyl) phthalate	ND	D12	3800	1200	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Butyl benzyl phthalate	ND	D12	3800	1000	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Caprolactam	ND	D12,M7	3800	1600	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Carbazole	ND	D12	3800	44	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Chrysene	**250**	D12,J	3800	38	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Dibenz[a,h]anthracene	ND	D12	3800	45	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Dibenzofuran	ND	D12	3800	39	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Diethyl phthalate	ND	D12	3800	110	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Dimethyl phthalate	ND	D12	3800	99	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Di-n-butyl phthalate	ND	D12	3800	1300	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Di-n-octyl phthalate	ND	D12	3800	89	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Fluoranthene	**410**	D12,J	3800	55	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Fluorene	ND	D12	3800	87	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Hexachlorobenzene	ND	D12	3800	190	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Hexachlorobutadiene	ND	D12	3800	190	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Hexachlorocyclopentadiene	ND	D12	3800	1100	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Hexachloroethane	ND	D12	3800	290	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Indeno[1,2,3-cd]pyrene	**220**	D12,J	3800	100	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Isophorone	ND	D12	3800	190	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Naphthalene	ND	D12	3800	63	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Nitrobenzene	ND	D12	3800	170	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
N-Nitrosodi-n-propylamine	ND	D12	3800	300	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
N-Nitrosodiphenylamine	ND	D12,L	3800	210	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Phenanthrene	**310**	D12,J	3800	80	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Phenol	ND	D12	3800	400	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
Pyrene	**370**	D12,J	3800	25	ug/kg dry	20.0	09/23/09 20:48	JLG	9I18138	8270C
2,4,6-Tribromophenol	*84 %*	*D12*	*Surr Limits: (39-146%)*				*09/23/09 20:48*	*JLG*	*9I18138*	*8270C*
2-Fluorobiphenyl	*81 %*	*D12*	*Surr Limits: (37-120%)*				*09/23/09 20:48*	*JLG*	*9I18138*	*8270C*
2-Fluorophenol	*59 %*	*D12*	*Surr Limits: (18-120%)*				*09/23/09 20:48*	*JLG*	*9I18138*	*8270C*
Nitrobenzene-d5	*65 %*	*D12*	*Surr Limits: (34-132%)*				*09/23/09 20:48*	*JLG*	*9I18138*	*8270C*
Phenol-d5	*73 %*	*D12*	*Surr Limits: (11-120%)*				*09/23/09 20:48*	*JLG*	*9I18138*	*8270C*
p-Terphenyl-d14	*81 %*	*D12*	*Surr Limits: (58-147%)*				*09/23/09 20:48*	*JLG*	*9I18138*	*8270C*
Organochlorine Pesticides by EPA Method 8081A										
4,4'-DDD	ND	QFL	3.8	0.75	ug/kg dry	2.00	09/28/09 22:56	tch	9I20007	8081A
4,4'-DDE	ND	QFL	3.8	1.1	ug/kg dry	2.00	09/28/09 22:56	tch	9I20007	8081A
4,4'-DDT	~~4.9~~ ND U	QFL	~~3.8~~ 4.9	0.87	ug/kg dry	2.00	09/28/09 22:56	tch	9I20007	8081A
Aldrin	ND	QFL	3.8	0.39	ug/kg dry	2.00	09/28/09 22:56	tch	9I20007	8081A
alpha-BHC	ND	QFL	3.8	0.69	ug/kg dry	2.00	09/28/09 22:56	tch	9I20007	8081A
alpha-Chlordane	ND	QFL	3.8	1.9	ug/kg dry	2.00	09/28/09 22:56	tch	9I20007	8081A
beta-BHC	ND	QFL	3.8	2.8	ug/kg dry	2.00	09/28/09 22:56	tch	9I20007	8081A
Chlordane	ND	QFL	38	8.5	ug/kg dry	2.00	09/28/09 22:56	tch	9I20007	8081A
delta-BHC	**1.6** J	QFL,J	3.8	0.51	ug/kg dry	2.00	09/28/09 22:56	tch	9I20007	8081A
Dieldrin	**2.5** J	QFL,J	3.8	0.92	ug/kg dry	2.00	09/28/09 22:56	tch	9I20007	8081A
Endosulfan I	ND	QFL	3.8	0.81	ug/kg dry	2.00	09/28/09 22:56	tch	9I20007	8081A
Endosulfan II	ND	QFL	3.8	0.69	ug/kg dry	2.00	09/28/09 22:56	tch	9I20007	8081A

Golder Associates, Inc. - Niagara Falls, NY
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SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Client ID: B-10 (RSI0643-03 - Solid) - cont. — **Sampled: 09/17/09 15:05** — **Recvd: 09/17/09 16:47**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Organochlorine Pesticides by EPA Method 8081A - cont.										
Endosulfan sulfate	ND	QFL	3.8	0.72	ug/kg dry	2.00	09/28/09 22:56	tch	9I20007	8081A
Endrin	**2.7**	QFL,J	3.8	1.2	ug/kg dry	2.00	09/28/09 22:56	tch	9I20007	8081A
Endrin aldehyde	ND	QFL	3.8	0.98	ug/kg dry	2.00	09/28/09 22:56	tch	9I20007	8081A
Endrin ketone	ND	QFL	3.8	0.94	ug/kg dry	2.00	09/28/09 22:56	tch	9I20007	8081A
gamma-BHC (Lindane)	ND	QFL	3.8	0.67	ug/kg dry	2.00	09/28/09 22:56	tch	9I20007	8081A
gamma-Chlordane	**2.4**	QFL,J	3.8	0.53	ug/kg dry	2.00	09/28/09 22:56	tch	9I20007	8081A
Heptachlor	ND	QFL	3.8	0.60	ug/kg dry	2.00	09/28/09 22:56	tch	9I20007	8081A
Heptachlor epoxide	ND	QFL	3.8	0.99	ug/kg dry	2.00	09/28/09 22:56	tch	9I20007	8081A
Methoxychlor	ND	QFL	3.8	1.0	ug/kg dry	2.00	09/28/09 22:56	tch	9I20007	8081A
Toxaphene	ND	QFL	38	22	ug/kg dry	2.00	09/28/09 22:56	tch	9I20007	8081A
Decachlorobiphenyl	*183 %*	*QFL,Z1*	*Surr Limits: (42-146%)*				*09/28/09 22:56*	*tch*	*9I20007*	*8081A*
Tetrachloro-m-xylene	*83 %*	*QFL*	*Surr Limits: (37-136%)*				*09/28/09 22:56*	*tch*	*9I20007*	*8081A*
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016	ND	QSU	19	3.8	ug/kg dry	1.00	09/22/09 10:45	SCH	9I20006	8082
Aroclor 1221	ND	QSU	19	3.8	ug/kg dry	1.00	09/22/09 10:45	SCH	9I20006	8082
Aroclor 1232	ND	QSU	19	3.8	ug/kg dry	1.00	09/22/09 10:45	SCH	9I20006	8082
Aroclor 1242	ND	QSU	19	4.2	ug/kg dry	1.00	09/22/09 10:45	SCH	9I20006	8082
Aroclor 1248	ND	QSU	19	3.8	ug/kg dry	1.00	09/22/09 10:45	SCH	9I20006	8082
Aroclor 1254	ND	QSU	19	4.1	ug/kg dry	1.00	09/22/09 10:45	SCH	9I20006	8082
Aroclor 1260	**75**	QSU	19	4.1	ug/kg dry	1.00	09/22/09 10:45	SCH	9I20006	8082
Decachlorobiphenyl	*111 %*	*QSU*	*Surr Limits: (34-148%)*				*09/22/09 10:45*	*SCH*	*9I20006*	*8082*
Tetrachloro-m-xylene	*93 %*	*QSU*	*Surr Limits: (35-134%)*				*09/22/09 10:45*	*SCH*	*9I20006*	*8082*
Total Metals by SW 846 Series Methods										
Aluminum	**8570**		12.2	NR	mg/kg dry	1.00	09/25/09 02:38	LMH	9I23026	6010B
Antimony	ND		18.3	NR	mg/kg dry	1.00	09/24/09 01:20	AMH	9I23026	6010B
Arsenic	**10.5**		2.4	NR	mg/kg dry	1.00	09/24/09 01:20	AMH	9I23026	6010B
Barium	**273**		0.611	NR	mg/kg dry	1.00	09/24/09 01:20	AMH	9I23026	6010B
Beryllium	**0.501**		0.244	NR	mg/kg dry	1.00	09/24/09 01:20	AMH	9I23026	6010B
Cadmium	**1.27**		0.244	NR	mg/kg dry	1.00	09/24/09 01:20	AMH	9I23026	6010B
Calcium	**27000**		61.1	NR	mg/kg dry	1.00	09/24/09 01:20	AMH	9I23026	6010B
Chromium	**21.0**		0.611	NR	mg/kg dry	1.00	09/24/09 01:20	AMH	9I23026	6010B
Cobalt	**9.05**		0.611	NR	mg/kg dry	1.00	09/24/09 01:20	AMH	9I23026	6010B
Copper	**89.1**		1.2	NR	mg/kg dry	1.00	09/24/09 01:20	AMH	9I23026	6010B
Iron	**54200**	B1, B3, B	12.2	NR	mg/kg dry	1.00	09/24/09 01:20	AMH	9I23026	6010B
Lead	**1840**		1.2	NR	mg/kg dry	1.00	09/24/09 01:20	AMH	9I23026	6010B
Magnesium	**6600**		24.4	NR	mg/kg dry	1.00	09/24/09 01:20	AMH	9I23026	6010B
Manganese	**725**	B1, B	0.2	NR	mg/kg dry	1.00	09/24/09 01:20	AMH	9I23026	6010B
Nickel	**26.2**		6.11	NR	mg/kg dry	1.00	09/24/09 01:20	AMH	9I23026	6010B
Potassium	**1300**		36.6	NR	mg/kg dry	1.00	09/24/09 01:20	AMH	9I23026	6010B
Selenium	ND		4.9	NR	mg/kg dry	1.00	09/24/09 01:20	AMH	9I23026	6010B
Silver	ND		0.611	NR	mg/kg dry	1.00	09/24/09 01:20	AMH	9I23026	6010B
Sodium	ND		171	NR	mg/kg dry	1.00	09/24/09 01:20	AMH	9I23026	6010B
Thallium	ND		7.3	NR	mg/kg dry	1.00	09/24/09 01:20	AMH	9I23026	6010B
Vanadium	**21.3**		0.611	NR	mg/kg dry	1.00	09/24/09 01:20	AMH	9I23026	6010B
Zinc	**894**		2.4	NR	mg/kg dry	1.00	09/24/09 01:20	AMH	9I23026	6010B
Mercury	**0.238**		0.0249	NR	mg/kg dry	1.00	09/25/09 14:33	MXM	9I24107	7471A

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
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SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: B-10 (RSI0643-03 - Solid) - cont.						**Sampled: 09/17/09 15:05**		**Recvd: 09/17/09 16:47**		
General Chemistry Parameters										
Percent Solids	**87**		0.010	NR	%	1.00	09/20/09 14:42	KMB	9I19015	Dry Weight
Cyanide	**2.0**	J	1.0	0.9	mg/kg dry	1.00	09/23/09 09:47	jmm	9I23015	9012A

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Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: B-2 (0-2) (RSI0741-01 - Solid)						**Sampled: 09/21/09 08:50**		**Recvd: 09/21/09 14:26**		
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016 [2C]	ND		17	3.4	ug/kg dry	1.00	09/23/09 12:41	SCH	9I22042	8082
Aroclor 1221 [2C]	ND		17	3.4	ug/kg dry	1.00	09/23/09 12:41	SCH	9I22042	8082
Aroclor 1232 [2C]	ND		17	3.4	ug/kg dry	1.00	09/23/09 12:41	SCH	9I22042	8082
Aroclor 1242 [2C]	ND		17	3.7	ug/kg dry	1.00	09/23/09 12:41	SCH	9I22042	8082
Aroclor 1248 [2C]	ND		17	3.4	ug/kg dry	1.00	09/23/09 12:41	SCH	9I22042	8082
Aroclor 1254 [2C]	ND		17	3.6	ug/kg dry	1.00	09/23/09 12:41	SCH	9I22042	8082
Aroclor 1260 [2C]	**140**		17	3.6	ug/kg dry	1.00	09/23/09 12:41	SCH	9I22042	8082
Decachlorobiphenyl [2C]	*77 %*		*Surr Limits: (34-148%)*				*09/23/09 12:41*	*SCH*	*9I22042*	*8082*
Tetrachloro-m-xylene [2C]	*87 %*		*Surr Limits: (35-134%)*				*09/23/09 12:41*	*SCH*	*9I22042*	*8082*
General Chemistry Parameters										
Percent Solids	**96**		0.010	NR	%	1.00	09/22/09 14:41	CJM	9I22026	Dry Weight

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SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: B-2 (2-4) (RSI0741-02 - Solid)						**Sampled: 09/21/09 09:00**		**Recvd: 09/21/09 14:26**		
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016 [2C]	ND		20	4.0	ug/kg dry	1.00	09/23/09 13:00	SCH	9I22042	8082
Aroclor 1221 [2C]	ND		20	4.0	ug/kg dry	1.00	09/23/09 13:00	SCH	9I22042	8082
Aroclor 1232 [2C]	ND		20	4.0	ug/kg dry	1.00	09/23/09 13:00	SCH	9I22042	8082
Aroclor 1242 [2C]	ND		20	4.4	ug/kg dry	1.00	09/23/09 13:00	SCH	9I22042	8082
Aroclor 1248 [2C]	ND		20	4.0	ug/kg dry	1.00	09/23/09 13:00	SCH	9I22042	8082
Aroclor 1254 [2C]	ND		20	4.3	ug/kg dry	1.00	09/23/09 13:00	SCH	9I22042	8082
Aroclor 1260 [2C]	ND		20	4.3	ug/kg dry	1.00	09/23/09 13:00	SCH	9I22042	8082
Decachlorobiphenyl [2C]	*93 %*		*Surr Limits: (34-148%)*				*09/23/09 13:00*	*SCH*	*9I22042*	*8082*
Tetrachloro-m-xylene [2C]	*88 %*		*Surr Limits: (35-134%)*				*09/23/09 13:00*	*SCH*	*9I22042*	*8082*
General Chemistry Parameters										
Percent Solids	**81**		0.010	NR	%	1.00	09/22/09 14:43	CJM	9I22026	Dry Weight

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SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Client ID: B-2 (RSI0741-03 - Solid) — Sampled: 09/21/09 09:05 — Recvd: 09/21/09 14:26

Volatile Organic Compounds by EPA 8260B

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
1,1,1-Trichloroethane	ND		5.4	0.39	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
1,1,2,2-Tetrachloroethane	ND		5.4	0.88	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
1,1,2-Trichloroethane	ND		5.4	0.27	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
1,1,2-Trichlorotrifluoroethane	ND		5.4	0.57	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
1,1-Dichloroethane	ND		5.4	0.27	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
1,1-Dichloroethene	ND		5.4	0.66	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
1,2,4-Trichlorobenzene	ND		5.4	0.33	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
1,2-Dibromo-3-chloropropane	ND		5.4	1.1	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
1,2-Dibromoethane (EDB)	ND		5.4	0.21	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
1,2-Dichlorobenzene	ND		5.4	0.82	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
1,2-Dichloroethane	ND		5.4	0.27	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
1,2-Dichloroethene, Total	ND		11	2.8	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
1,2-Dichloropropane	ND		5.4	0.28	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
1,3-Dichlorobenzene	ND		5.4	0.77	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
1,4-Dichlorobenzene	ND		5.4	0.76	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
2-Butanone (MEK)	ND		27	7.4	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
2-Hexanone	ND		27	1.9	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
4-Methyl-2-pentanone (MIBK)	ND		27	1.8	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
Acetone	**17**	J	27	1.2	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
Benzene	ND		5.4	0.27	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
Bromodichloromethane	ND		5.4	0.28	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
Bromoform	ND		5.4	0.50	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
Bromomethane	ND		5.4	0.50	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
Carbon disulfide	ND		5.4	0.47	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
Carbon Tetrachloride	ND		5.4	0.20	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
Chlorobenzene	~~1.9~~ ND U	B, J	5.4	0.24	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
Chlorodibromomethane	ND		5.4	0.30	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
Chloroethane	ND		5.4	0.88	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
Chloroform	ND		5.4	0.34	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
Chloromethane	ND		5.4	0.33	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
cis-1,2-Dichloroethene	ND		5.4	0.27	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
cis-1,3-Dichloropropene	ND		5.4	0.31	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
Cyclohexane	ND		5.4	0.25	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
Dichlorodifluoromethane	ND		5.4	0.45	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
Ethylbenzene	ND		5.4	0.37	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
Isopropylbenzene	ND		5.4	0.36	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
Methyl Acetate	ND		5.4	0.29	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
Methyl tert-Butyl Ether	ND		5.4	0.53	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
Methylcyclohexane	ND		5.4	0.35	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
Methylene Chloride	**12**		5.4	0.38	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
Styrene	ND		5.4	0.27	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
Tetrachloroethene	ND		5.4	0.73	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
Toluene	ND	B	5.4	0.92	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
trans-1,2-Dichloroethene	ND		5.4	0.56	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
trans-1,3-Dichloropropene	ND		5.4	0.27	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
Trichloroethene	ND		5.4	0.37	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B

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Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Client ID: B-2 (RSI0741-03 - Solid) - cont. Sampled: 09/21/09 09:05 Recvd: 09/21/09 14:26

Volatile Organic Compounds by EPA 8260B - cont.

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Trichlorofluoromethane	ND		5.4	1.7	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
Vinyl acetate	ND		27	1.1	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
Vinyl chloride	ND		11	0.22	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
Xylenes, total	ND		11	0.91	ug/kg dry	1.00	09/25/09 01:58	CDC	9I24113	8260B
1,2-Dichloroethane-d4	*103 %*		*Surr Limits: (64-126%)*				*09/25/09 01:58*	*CDC*	*9I24113*	*8260B*
4-Bromofluorobenzene	*108 %*		*Surr Limits: (72-126%)*				*09/25/09 01:58*	*CDC*	*9I24113*	*8260B*
Toluene-d8	*115 %*		*Surr Limits: (71-125%)*				*09/25/09 01:58*	*CDC*	*9I24113*	*8260B*

Semivolatile Organics by GC/MS

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
2,4,5-Trichlorophenol	ND	D10	1900	400	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
2,4,6-Trichlorophenol	ND	D10	1900	120	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
2,4-Dichlorophenol	ND	D10	1900	97	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
2,4-Dimethylphenol	ND	D10	1900	500	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
2,4-Dinitrophenol	ND	D10	3600	650	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
2,4-Dinitrotoluene	ND	D10	1900	290	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
2,6-Dinitrotoluene	ND	D10	1900	450	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
2-Chloronaphthalene	ND	D10	1900	120	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
2-Chlorophenol	ND	D10	1900	94	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
2-Methylnaphthalene	ND	D10	1900	22	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
2-Methylphenol	ND	D10	1900	57	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
2-Nitroaniline	ND	D10	3600	600	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
2-Nitrophenol	ND	D10	1900	85	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
3 & 4 Methylphenol	ND	D10	3600	100	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
3,3'-Dichlorobenzidine	ND	D10	1900	1600	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
3-Nitroaniline	ND	D10	3600	430	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
4,6-Dinitro-2-methylphenol	ND	D10	3600	640	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
4-Bromophenyl phenyl ether	ND	D10	1900	590	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
4-Chloro-3-methylphenol	ND	D10	1900	76	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
4-Chloroaniline	ND	D10	1900	540	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
4-Chlorophenyl phenyl ether	ND	D10	1900	40	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
4-Nitroaniline	ND	D10	3600	210	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
4-Nitrophenol	ND	D10	3600	450	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Acenaphthene	ND	D10	1900	22	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Acenaphthylene	ND	D10	1900	15	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Acetophenone	ND	D10	1900	95	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Anthracene	ND	D10	1900	48	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Atrazine	ND UJ	D10	1900	83	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Benzaldehyde	ND	D10	1900	200	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Benzo[a]anthracene	**770**	D10,J	1900	32	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Benzo[a]pyrene	**1400** J	D10,L, J	1900	45	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Benzo[b]fluoranthene	**1700**	D10,J	1900	36	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Benzo[g,h,i]perylene	**950**	D10,J	1900	22	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Benzo[k]fluoranthene	**610**	D10,J	1900	20	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Biphenyl	ND	D10	1900	120	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Bis(2-chloroethoxy)methane	ND	D10	1900	100	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Bis(2-chloroethyl)ether	ND	D10	1900	160	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Client ID: B-2 (RSI0741-03 - Solid) - cont. — **Sampled: 09/21/09 09:05** — **Recvd: 09/21/09 14:26**

Semivolatile Organics by GC/MS - cont.

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Bis(2-chloroisopropyl) ether	ND	D10	1900	190	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Bis(2-ethylhexyl) phthalate	**1000**	D10,J	1900	600	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Butyl benzyl phthalate	ND	D10	1900	500	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Caprolactam	ND	D10	1900	800	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Carbazole	ND	D10	1900	21	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Chrysene	**1000**	D10,J	1900	19	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Dibenz[a,h]anthracene	**250**	D10,J	1900	22	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Dibenzofuran	ND	D10	1900	19	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Diethyl phthalate	ND	D10	1900	56	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Dimethyl phthalate	ND	D10	1900	48	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Di-n-butyl phthalate	ND	D10	1900	640	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Di-n-octyl phthalate	ND	D10	1900	43	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Fluoranthene	**830**	D10,J	1900	27	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Fluorene	ND	D10	1900	43	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Hexachlorobenzene	ND	D10	1900	92	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Hexachlorobutadiene	ND	D10	1900	95	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Hexachlorocyclopentadiene	ND	D10	1900	560	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Hexachloroethane	ND	D10	1900	140	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Indeno[1,2,3-cd]pyrene	**790**	D10,J	1900	51	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Isophorone	ND	D10	1900	93	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Naphthalene	ND	D10	1900	31	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Nitrobenzene	ND	D10	1900	82	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
N-Nitrosodi-n-propylamine	ND	D10	1900	150	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
N-Nitrosodiphenylamine	ND	D10,L	1900	100	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Phenanthrene	**220**	D10,J	1900	39	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Phenol	ND	D10	1900	200	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
Pyrene	**740**	D10,J	1900	12	ug/kg dry	10.0	09/26/09 15:48	ERK	9I22039	8270C
2,4,6-Tribromophenol	*49 %*	*D10*	*Surr Limits: (39-146%)*				*09/26/09 15:48*	*ERK*	*9I22039*	*8270C*
2-Fluorobiphenyl	*73 %*	*D10*	*Surr Limits: (37-120%)*				*09/26/09 15:48*	*ERK*	*9I22039*	*8270C*
2-Fluorophenol	*52 %*	*D10*	*Surr Limits: (18-120%)*				*09/26/09 15:48*	*ERK*	*9I22039*	*8270C*
Nitrobenzene-d5	*60 %*	*D10*	*Surr Limits: (34-132%)*				*09/26/09 15:48*	*ERK*	*9I22039*	*8270C*
Phenol-d5	*63 %*	*D10*	*Surr Limits: (11-120%)*				*09/26/09 15:48*	*ERK*	*9I22039*	*8270C*
p-Terphenyl-d14	*73 %*	*D10*	*Surr Limits: (58-147%)*				*09/26/09 15:48*	*ERK*	*9I22039*	*8270C*

Organochlorine Pesticides by EPA Method 8081A

4,4'-DDD [2C]	ND	QFL	1.8	0.36	ug/kg dry	1.00	09/30/09 02:19	MAN	9I22040	8081A
4,4'-DDE [2C]	ND	QFL	1.8	0.53	ug/kg dry	1.00	09/30/09 02:19	MAN	9I22040	8081A
4,4'-DDT [2C]	ND	QFL	1.8	0.42	ug/kg dry	1.00	09/30/09 02:19	MAN	9I22040	8081A
Aldrin [2C]	ND	QFL	1.8	0.19	ug/kg dry	1.00	09/30/09 02:19	MAN	9I22040	8081A
alpha-BHC [2C]	ND	QFL	1.8	0.33	ug/kg dry	1.00	09/30/09 02:19	MAN	9I22040	8081A
alpha-Chlordane [2C]	ND	QFL	1.8	0.92	ug/kg dry	1.00	09/30/09 02:19	MAN	9I22040	8081A
beta-BHC [2C]	ND	QFL	1.8	1.3	ug/kg dry	1.00	09/30/09 02:19	MAN	9I22040	8081A
Chlordane [2C]	ND	QFL	18	4.1	ug/kg dry	1.00	09/30/09 02:19	MAN	9I22040	8081A
delta-BHC [2C]	ND	QFL	1.8	0.24	ug/kg dry	1.00	09/30/09 02:19	MAN	9I22040	8081A
Dieldrin [2C]	ND	QFL	1.8	0.44	ug/kg dry	1.00	09/30/09 02:19	MAN	9I22040	8081A
Endosulfan I [2C]	ND	QFL	1.8	0.39	ug/kg dry	1.00	09/30/09 02:19	MAN	9I22040	8081A
Endosulfan II [2C]	ND	QFL	1.8	0.33	ug/kg dry	1.00	09/30/09 02:19	MAN	9I22040	8081A

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SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: B-2 (RSI0741-03 - Solid) - cont.						**Sampled: 09/21/09 09:05**		**Recvd: 09/21/09 14:26**		
Organochlorine Pesticides by EPA Method 8081A - cont.										
Endosulfan sulfate [2C]	ND	QFL	1.8	0.34	ug/kg dry	1.00	09/30/09 02:19	MAN	9I22040	8081A
Endrin [2C]	ND	QFL	1.8	0.60	ug/kg dry	1.00	09/30/09 02:19	MAN	9I22040	8081A
Endrin aldehyde [2C]	ND	QFL	1.8	0.47	ug/kg dry	1.00	09/30/09 02:19	MAN	9I22040	8081A
Endrin ketone [2C]	ND	QFL	1.8	0.45	ug/kg dry	1.00	09/30/09 02:19	MAN	9I22040	8081A
gamma-BHC (Lindane) [2C]	ND	QFL	1.8	0.32	ug/kg dry	1.00	09/30/09 02:19	MAN	9I22040	8081A
gamma-Chlordane [2C]	ND	QFL	1.8	0.25	ug/kg dry	1.00	09/30/09 02:19	MAN	9I22040	8081A
Heptachlor [2C]	ND	QFL	1.8	0.29	ug/kg dry	1.00	09/30/09 02:19	MAN	9I22040	8081A
Heptachlor epoxide [2C]	ND	QFL	1.8	0.47	ug/kg dry	1.00	09/30/09 02:19	MAN	9I22040	8081A
Methoxychlor [2C]	ND	QFL	1.8	0.49	ug/kg dry	1.00	09/30/09 02:19	MAN	9I22040	8081A
Toxaphene [2C]	ND	QFL	18	11	ug/kg dry	1.00	09/30/09 02:19	MAN	9I22040	8081A
Decachlorobiphenyl [2C]	*95 %*	*QFL*	*Surr Limits: (42-146%)*				*09/30/09 02:19*	*MAN*	*9I22040*	*8081A*
Tetrachloro-m-xylene [2C]	*72 %*	*QFL*	*Surr Limits: (37-136%)*				*09/30/09 02:19*	*MAN*	*9I22040*	*8081A*
Total Metals by SW 846 Series Methods										
Aluminum	**13100**		10.9	NR	mg/kg dry	1.00	09/25/09 03:46	LMH	9I23026	6010B
Antimony	ND	UJ	16.3	NR	mg/kg dry	1.00	09/24/09 02:07	AMH	9I23026	6010B
Arsenic	**5.4**	J	2.2	NR	mg/kg dry	1.00	09/24/09 02:07	AMH	9I23026	6010B
Barium	**118**		0.545	NR	mg/kg dry	1.00	09/24/09 02:07	AMH	9I23026	6010B
Beryllium	**0.643**		0.218	NR	mg/kg dry	1.00	09/24/09 02:07	AMH	9I23026	6010B
Cadmium	ND		0.218	NR	mg/kg dry	1.00	09/24/09 02:07	AMH	9I23026	6010B
Calcium	**73100**	J D08	272	NR	mg/kg dry	5.00	09/26/09 10:36	LMH	9I23026	6010B
Chromium	**20.9**	J	0.545	NR	mg/kg dry	1.00	09/24/09 02:07	AMH	9I23026	6010B
Cobalt	**8.45**		0.545	NR	mg/kg dry	1.00	09/24/09 02:07	AMH	9I23026	6010B
Copper	**19.8**	J	1.1	NR	mg/kg dry	1.00	09/24/09 02:07	AMH	9I23026	6010B
Iron	**22700**	J B1, B3, B	10.9	NR	mg/kg dry	1.00	09/24/09 02:07	AMH	9I23026	6010B
Lead	**11.7**	J	1.1	NR	mg/kg dry	1.00	09/24/09 02:07	AMH	9I23026	6010B
Magnesium	**12700**	J	21.8	NR	mg/kg dry	1.00	09/24/09 02:07	AMH	9I23026	6010B
Manganese	**312**	J B1, B	0.2	NR	mg/kg dry	1.00	09/24/09 02:07	AMH	9I23026	6010B
Nickel	**23.5**	J	5.45	NR	mg/kg dry	1.00	09/24/09 02:07	AMH	9I23026	6010B
Potassium	**1760**		32.7	NR	mg/kg dry	1.00	09/24/09 02:07	AMH	9I23026	6010B
Selenium	ND	UJ	4.4	NR	mg/kg dry	1.00	09/24/09 02:07	AMH	9I23026	6010B
Silver	ND		0.545	NR	mg/kg dry	1.00	09/24/09 02:07	AMH	9I23026	6010B
Sodium	ND		153	NR	mg/kg dry	1.00	09/24/09 02:07	AMH	9I23026	6010B
Thallium	ND		6.5	NR	mg/kg dry	1.00	09/24/09 02:07	AMH	9I23026	6010B
Vanadium	**23.7**	J	0.545	NR	mg/kg dry	1.00	09/24/09 02:07	AMH	9I23026	6010B
Zinc	**59.2**	J	2.2	NR	mg/kg dry	1.00	09/24/09 02:07	AMH	9I23026	6010B
Mercury	**0.0264**		0.0217	NR	mg/kg dry	1.00	09/29/09 17:09	MXM	9I25041	7471A
General Chemistry Parameters										
Percent Solids	**90**		0.010	NR	%	1.00	09/22/09 14:45	CJM	9I22026	Dry Weight
Cyanide	ND	UJ	1.1	0.9	mg/kg dry	1.00	09/24/09 08:06	jmm	9I23064	9012A

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
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SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: B-3 (0-2) (RSI0741-07 - Solid)						**Sampled: 09/21/09 09:35**		**Recvd: 09/21/09 14:26**		
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016 [2C]	ND	D08	190	37	ug/kg dry	10.0	09/24/09 06:41	SCH	9I22042	8082
Aroclor 1221 [2C]	ND	D08	190	37	ug/kg dry	10.0	09/24/09 06:41	SCH	9I22042	8082
Aroclor 1232 [2C]	ND	D08	190	37	ug/kg dry	10.0	09/24/09 06:41	SCH	9I22042	8082
Aroclor 1242 [2C]	ND	D08	190	41	ug/kg dry	10.0	09/24/09 06:41	SCH	9I22042	8082
Aroclor 1248 [2C]	ND	D08	190	37	ug/kg dry	10.0	09/24/09 06:41	SCH	9I22042	8082
Aroclor 1254 [2C]	ND	D08	190	40	ug/kg dry	10.0	09/24/09 06:41	SCH	9I22042	8082
Aroclor 1260 [2C]	**1700**	D08	190	40	ug/kg dry	10.0	09/24/09 06:41	SCH	9I22042	8082
Decachlorobiphenyl [2C]	*105 %*	*D08*	*Surr Limits: (34-148%)*				*09/24/09 06:41*	*SCH*	*9I22042*	*8082*
Tetrachloro-m-xylene [2C]	*89 %*	*D08*	*Surr Limits: (35-134%)*				*09/24/09 06:41*	*SCH*	*9I22042*	*8082*
General Chemistry Parameters										
Percent Solids	**87**		0.010	NR	%	1.00	09/22/09 14:53	CJM	9I22026	Dry Weight

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Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: B-3 (2-4) (RSI0741-08 - Solid)						**Sampled: 09/21/09 09:35**		**Recvd: 09/21/09 14:26**		
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016 [2C]	ND		20	3.8	ug/kg dry	1.00	09/23/09 14:14	SCH	9I22042	8082
Aroclor 1221 [2C]	ND		20	3.8	ug/kg dry	1.00	09/23/09 14:14	SCH	9I22042	8082
Aroclor 1232 [2C]	ND		20	3.8	ug/kg dry	1.00	09/23/09 14:14	SCH	9I22042	8082
Aroclor 1242 [2C]	ND		20	4.2	ug/kg dry	1.00	09/23/09 14:14	SCH	9I22042	8082
Aroclor 1248 [2C]	ND		20	3.8	ug/kg dry	1.00	09/23/09 14:14	SCH	9I22042	8082
Aroclor 1254 [2C]	ND		20	4.1	ug/kg dry	1.00	09/23/09 14:14	SCH	9I22042	8082
Aroclor 1260 [2C]	**29**		20	4.1	ug/kg dry	1.00	09/23/09 14:14	SCH	9I22042	8082
Decachlorobiphenyl [2C]	*85 %*		*Surr Limits: (34-148%)*				*09/23/09 14:14*	*SCH*	*9I22042*	*8082*
Tetrachloro-m-xylene [2C]	*90 %*		*Surr Limits: (35-134%)*				*09/23/09 14:14*	*SCH*	*9I22042*	*8082*
General Chemistry Parameters										
Percent Solids	**85**		0.010	NR	%	1.00	09/22/09 14:55	CJM	9I22026	Dry Weight

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Client ID: B-3 (RSI0741-09 - Solid) — Sampled: 09/21/09 09:40 — Recvd: 09/21/09 14:26

Volatile Organic Compounds by EPA 8260B

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
1,1,1-Trichloroethane	ND		5.8	0.42	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
1,1,2,2-Tetrachloroethane	ND		5.8	0.93	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
1,1,2-Trichloroethane	ND		5.8	0.29	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
1,1,2-Trichlorotrifluoroethane	ND		5.8	0.61	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
1,1-Dichloroethane	ND		5.8	0.28	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
1,1-Dichloroethene	ND		5.8	0.70	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
1,2,4-Trichlorobenzene	ND		5.8	0.35	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
1,2-Dibromo-3-chloropropane	ND		5.8	1.1	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
1,2-Dibromoethane (EDB)	ND		5.8	0.22	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
1,2-Dichlorobenzene	ND		5.8	0.87	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
1,2-Dichloroethane	ND		5.8	0.29	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
1,2-Dichloroethene, Total	ND		12	3.0	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
1,2-Dichloropropane	ND		5.8	0.29	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
1,3-Dichlorobenzene	ND		5.8	0.81	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
1,4-Dichlorobenzene	ND		5.8	0.81	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
2-Butanone (MEK)	ND		29	7.8	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
2-Hexanone	ND		29	2.0	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
4-Methyl-2-pentanone (MIBK)	ND		29	1.9	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
Acetone	ND		29	1.3	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
Benzene	ND		5.8	0.28	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
Bromodichloromethane	ND		5.8	0.30	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
Bromoform	ND		5.8	0.53	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
Bromomethane	ND		5.8	0.53	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
Carbon disulfide	ND		5.8	0.49	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
Carbon Tetrachloride	ND		5.8	0.21	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
Chlorobenzene	ND 2.3 U	B, J	5.8	0.25	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
Chlorodibromomethane	ND		5.8	0.32	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
Chloroethane	ND		5.8	0.93	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
Chloroform	ND		5.8	0.36	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
Chloromethane	ND		5.8	0.35	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
cis-1,2-Dichloroethene	ND		5.8	0.28	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
cis-1,3-Dichloropropene	ND		5.8	0.33	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
Cyclohexane	ND		5.8	0.26	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
Dichlorodifluoromethane	ND		5.8	0.48	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
Ethylbenzene	ND		5.8	0.40	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
Isopropylbenzene	ND		5.8	0.38	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
Methyl Acetate	ND		5.8	0.31	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
Methyl tert-Butyl Ether	ND		5.8	0.57	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
Methylcyclohexane	ND		5.8	0.37	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
Methylene Chloride	18		5.8	0.40	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
Styrene	ND		5.8	0.29	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
Tetrachloroethene	ND		5.8	0.77	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
Toluene	ND	B	5.8	0.98	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
trans-1,2-Dichloroethene	ND		5.8	0.59	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
trans-1,3-Dichloropropene	ND		5.8	0.28	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
Trichloroethene	ND		5.8	0.40	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B

Golder Associates, Inc. - Niagara Falls, NY
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SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Client ID: B-3 (RSI0741-09 - Solid) - cont. **Sampled: 09/21/09 09:40** **Recvd: 09/21/09 14:26**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Volatile Organic Compounds by EPA 8260B - cont.										
Trichlorofluoromethane	ND		5.8	1.8	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
Vinyl acetate	ND		29	1.2	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
Vinyl chloride	ND		12	0.23	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
Xylenes, total	ND		12	0.97	ug/kg dry	1.00	09/25/09 02:49	CDC	9I24113	8260B
1,2-Dichloroethane-d4	*102 %*		*Surr Limits: (64-126%)*				*09/25/09 02:49*	*CDC*	*9I24113*	*8260B*
4-Bromofluorobenzene	*104 %*		*Surr Limits: (72-126%)*				*09/25/09 02:49*	*CDC*	*9I24113*	*8260B*
Toluene-d8	*112 %*		*Surr Limits: (71-125%)*				*09/25/09 02:49*	*CDC*	*9I24113*	*8260B*
Semivolatile Organics by GC/MS										
2,4,5-Trichlorophenol	ND	D10	990	210	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
2,4,6-Trichlorophenol	ND	D10	990	65	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
2,4-Dichlorophenol	ND	D10	990	51	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
2,4-Dimethylphenol	ND	D10	990	260	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
2,4-Dinitrophenol	ND	D10	1900	340	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
2,4-Dinitrotoluene	ND	D10	990	150	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
2,6-Dinitrotoluene	ND	D10	990	240	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
2-Chloronaphthalene	ND	D10	990	66	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
2-Chlorophenol	ND	D10	990	50	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
2-Methylnaphthalene	ND	D10	990	12	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
2-Methylphenol	ND	D10	990	30	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
2-Nitroaniline	ND	D10	1900	310	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
2-Nitrophenol	ND	D10	990	45	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
3 & 4 Methylphenol	ND	D10	1900	55	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
3,3'-Dichlorobenzidine	ND	D10	990	860	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
3-Nitroaniline	ND	D10	1900	230	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
4,6-Dinitro-2-methylphenol	ND	D10	1900	340	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
4-Bromophenyl phenyl ether	ND	D10	990	310	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
4-Chloro-3-methylphenol	ND	D10	990	40	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
4-Chloroaniline	ND	D10	990	290	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
4-Chlorophenyl phenyl ether	ND	D10	990	21	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
4-Nitroaniline	ND	D10	1900	110	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
4-Nitrophenol	ND	D10	1900	240	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Acenaphthene	ND	D10	990	12	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Acenaphthylene	ND	D10	990	8.0	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Acetophenone	ND	D10	990	50	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Anthracene	ND	D10	990	25	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Atrazine	ND UJ	D10	990	44	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Benzaldehyde	ND	D10	990	110	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Benzo[a]anthracene	**100**	D10,J	990	17	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Benzo[a]pyrene	**87** J	D10,L, J	990	24	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Benzo[b]fluoranthene	**110**	D10,J	990	19	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Benzo[g,h,i]perylene	ND	D10	990	12	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Benzo[k]fluoranthene	ND	D10	990	11	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Biphenyl	ND	D10	990	61	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Bis(2-chloroethoxy)methane	ND	D10	990	53	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Bis(2-chloroethyl)ether	ND	D10	990	85	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
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SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Client ID: B-3 (RSI0741-09 - Solid) - cont. — Sampled: 09/21/09 09:40 — Recvd: 09/21/09 14:26

Semivolatile Organics by GC/MS - cont.

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Bis(2-chloroisopropyl) ether	ND	D10	990	100	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Bis(2-ethylhexyl) phthalate	ND	D10	990	320	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Butyl benzyl phthalate	ND	D10	990	260	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Caprolactam	ND	D10	990	420	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Carbazole	ND	D10	990	11	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Chrysene	**89**	D10,J	990	9.8	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Dibenz[a,h]anthracene	ND	D10	990	12	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Dibenzofuran	ND	D10	990	10	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Diethyl phthalate	ND	D10	990	30	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Dimethyl phthalate	ND	D10	990	26	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Di-n-butyl phthalate	ND	D10	990	340	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Di-n-octyl phthalate	ND	D10	990	23	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Fluoranthene	**160**	D10,J	990	14	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Fluorene	ND	D10	990	23	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Hexachlorobenzene	ND	D10	990	49	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Hexachlorobutadiene	ND	D10	990	50	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Hexachlorocyclopentadiene	ND	D10	990	300	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Hexachloroethane	ND	D10	990	76	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Indeno[1,2,3-cd]pyrene	ND	D10	990	27	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Isophorone	ND	D10	990	49	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Naphthalene	ND	D10	990	16	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Nitrobenzene	ND	D10	990	43	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
N-Nitrosodi-n-propylamine	ND	D10	990	78	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
N-Nitrosodiphenylamine	ND	D10,L	990	54	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Phenanthrene	**120**	D10,J	990	21	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Phenol	ND	D10	990	100	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
Pyrene	**140**	D10,J	990	6.3	ug/kg dry	5.00	09/26/09 16:37	ERK	9I22039	8270C
2,4,6-Tribromophenol	*68 %*	*D10*	*Surr Limits: (39-146%)*				*09/26/09 16:37*	*ERK*	*9I22039*	*8270C*
2-Fluorobiphenyl	*79 %*	*D10*	*Surr Limits: (37-120%)*				*09/26/09 16:37*	*ERK*	*9I22039*	*8270C*
2-Fluorophenol	*64 %*	*D10*	*Surr Limits: (18-120%)*				*09/26/09 16:37*	*ERK*	*9I22039*	*8270C*
Nitrobenzene-d5	*73 %*	*D10*	*Surr Limits: (34-132%)*				*09/26/09 16:37*	*ERK*	*9I22039*	*8270C*
Phenol-d5	*74 %*	*D10*	*Surr Limits: (11-120%)*				*09/26/09 16:37*	*ERK*	*9I22039*	*8270C*
p-Terphenyl-d14	*80 %*	*D10*	*Surr Limits: (58-147%)*				*09/26/09 16:37*	*ERK*	*9I22039*	*8270C*

Organochlorine Pesticides by EPA Method 8081A

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
4,4'-DDD [2C]	ND	QFL, D04	9.6	1.9	ug/kg dry	5.00	09/30/09 03:31	MAN	9I22040	8081A
4,4'-DDE [2C]	ND	QFL, D04	9.6	2.8	ug/kg dry	5.00	09/30/09 03:31	MAN	9I22040	8081A
4,4'-DDT [2C]	ND	QFL, D04	9.6	2.2	ug/kg dry	5.00	09/30/09 03:31	MAN	9I22040	8081A
Aldrin [2C]	ND	QFL, D04	9.6	0.98	ug/kg dry	5.00	09/30/09 03:31	MAN	9I22040	8081A
alpha-BHC [2C]	ND	QFL, D04	9.6	1.7	ug/kg dry	5.00	09/30/09 03:31	MAN	9I22040	8081A
alpha-Chlordane [2C]	ND	QFL, D04	9.6	4.8	ug/kg dry	5.00	09/30/09 03:31	MAN	9I22040	8081A
beta-BHC [2C]	ND	QFL, D04	9.6	6.9	ug/kg dry	5.00	09/30/09 03:31	MAN	9I22040	8081A
Chlordane [2C]	ND	QFL, D04	96	21	ug/kg dry	5.00	09/30/09 03:31	MAN	9I22040	8081A
delta-BHC [2C]	ND	QFL, D04	9.6	1.3	ug/kg dry	5.00	09/30/09 03:31	MAN	9I22040	8081A
Dieldrin [2C]	ND ~~29~~ U	QFL, D04	~~9.6~~ 29	2.3	ug/kg dry	5.00	09/30/09 03:31	MAN	9I22040	8081A
Endosulfan I [2C]	ND	QFL, D04	9.6	2.0	ug/kg dry	5.00	09/30/09 03:31	MAN	9I22040	8081A
Endosulfan II [2C]	ND ~~92~~ U	QFL, D04	9.6	1.7	ug/kg dry	5.00	09/30/09 03:31	MAN	9I22040	8081A

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Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Client ID: B-3 (RSI0741-09 - Solid) - cont. — **Sampled: 09/21/09 09:40** — **Recvd: 09/21/09 14:26**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Organochlorine Pesticides by EPA Method 8081A - cont.										
Endosulfan sulfate [2C]	ND	QFL, D04	9.6	1.8	ug/kg dry	5.00	09/30/09 03:31	MAN	9I22040	8081A
Endrin [2C]	**21** J	QFL, D04	9.6	3.1	ug/kg dry	5.00	09/30/09 03:31	MAN	9I22040	8081A
Endrin aldehyde [2C]	ND	QFL, D04	9.6	2.4	ug/kg dry	5.00	09/30/09 03:31	MAN	9I22040	8081A
Endrin ketone [2C]	ND	QFL, D04	9.6	2.4	ug/kg dry	5.00	09/30/09 03:31	MAN	9I22040	8081A
gamma-BHC (Lindane) [2C]	ND	QFL, D04	9.6	1.7	ug/kg dry	5.00	09/30/09 03:31	MAN	9I22040	8081A
gamma-Chlordane [2C]	ND **21** U	QFL, D04	9.6	1.3	ug/kg dry	5.00	09/30/09 03:31	MAN	9I22040	8081A
Heptachlor [2C]	ND	QFL, D04	9.6	1.5	ug/kg dry	5.00	09/30/09 03:31	MAN	9I22040	8081A
Heptachlor epoxide [2C]	ND	QFL, D04	9.6	2.5	ug/kg dry	5.00	09/30/09 03:31	MAN	9I22040	8081A
Methoxychlor [2C]	ND	QFL, D04	9.6	2.6	ug/kg dry	5.00	09/30/09 03:31	MAN	9I22040	8081A
Toxaphene [2C]	ND	QFL, D04	96	56	ug/kg dry	5.00	09/30/09 03:31	MAN	9I22040	8081A
Decachlorobiphenyl [2C]	*91 %*	*QFL, D04*	*Surr Limits: (42-146%)*				*09/30/09 03:31*	*MAN*	*9I22040*	*8081A*
Tetrachloro-m-xylene [2C]	*87 %*	*QFL, D04*	*Surr Limits: (37-136%)*				*09/30/09 03:31*	*MAN*	*9I22040*	*8081A*
Total Metals by SW 846 Series Methods										
Aluminum	**11200**		11.5	NR	mg/kg dry	1.00	09/25/09 03:56	LMH	9I23026	6010B
Antimony	ND UJ		17.3	NR	mg/kg dry	1.00	09/24/09 02:16	AMH	9I23026	6010B
Arsenic	**6.0** J		2.3	NR	mg/kg dry	1.00	09/24/09 02:16	AMH	9I23026	6010B
Barium	**95.0** J		0.576	NR	mg/kg dry	1.00	09/24/09 02:16	AMH	9I23026	6010B
Beryllium	**0.561**		0.231	NR	mg/kg dry	1.00	09/24/09 02:16	AMH	9I23026	6010B
Cadmium	**0.511**		0.231	NR	mg/kg dry	1.00	09/24/09 02:16	AMH	9I23026	6010B
Calcium	**33900** J		57.6	NR	mg/kg dry	1.00	09/24/09 02:16	AMH	9I23026	6010B
Chromium	**13.9** J		0.576	NR	mg/kg dry	1.00	09/24/09 02:16	AMH	9I23026	6010B
Cobalt	**5.25**		0.576	NR	mg/kg dry	1.00	09/24/09 02:16	AMH	9I23026	6010B
Copper	**33.4** J		1.2	NR	mg/kg dry	1.00	09/24/09 02:16	AMH	9I23026	6010B
Iron	**17400** J	B1, B3, B	11.5	NR	mg/kg dry	1.00	09/24/09 02:16	AMH	9I23026	6010B
Lead	**208** J		1.2	NR	mg/kg dry	1.00	09/24/09 02:16	AMH	9I23026	6010B
Magnesium	**10000** J		23.1	NR	mg/kg dry	1.00	09/24/09 02:16	AMH	9I23026	6010B
Manganese	**1450** J	B1, B	0.2	NR	mg/kg dry	1.00	09/24/09 02:16	AMH	9I23026	6010B
Nickel	**12.3** J		5.76	NR	mg/kg dry	1.00	09/24/09 02:16	AMH	9I23026	6010B
Potassium	**1420**		34.6	NR	mg/kg dry	1.00	09/24/09 02:16	AMH	9I23026	6010B
Selenium	ND UJ		4.6	NR	mg/kg dry	1.00	09/24/09 02:16	AMH	9I23026	6010B
Silver	ND		0.576	NR	mg/kg dry	1.00	09/24/09 02:16	AMH	9I23026	6010B
Sodium	**184**		161	NR	mg/kg dry	1.00	09/24/09 02:16	AMH	9I23026	6010B
Thallium	ND		6.9	NR	mg/kg dry	1.00	09/24/09 02:16	AMH	9I23026	6010B
Vanadium	**22.0** J		0.576	NR	mg/kg dry	1.00	09/24/09 02:16	AMH	9I23026	6010B
Zinc	**147** J		2.3	NR	mg/kg dry	1.00	09/24/09 02:16	AMH	9I23026	6010B
Mercury	**0.259**		0.0243	NR	mg/kg dry	1.00	09/29/09 17:12	MXM	9I25041	7471A
General Chemistry Parameters										
Percent Solids	**86**		0.010	NR	%	1.00	09/22/09 14:57	CJM	9I22026	Dry Weight
Cyanide	ND UJ		1.1	0.9	mg/kg dry	1.00	09/24/09 08:09	jmm	9I23064	9012A

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: B-4 (0-2) (RSI0741-04 - Solid)						**Sampled: 09/21/09 09:10**		**Recvd: 09/21/09 14:26**		
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016 [2C]	ND		19	3.7	ug/kg dry	1.00	09/23/09 13:18	SCH	9I22042	8082
Aroclor 1221 [2C]	ND		19	3.7	ug/kg dry	1.00	09/23/09 13:18	SCH	9I22042	8082
Aroclor 1232 [2C]	ND		19	3.7	ug/kg dry	1.00	09/23/09 13:18	SCH	9I22042	8082
Aroclor 1242 [2C]	ND		19	4.1	ug/kg dry	1.00	09/23/09 13:18	SCH	9I22042	8082
Aroclor 1248 [2C]	ND		19	3.7	ug/kg dry	1.00	09/23/09 13:18	SCH	9I22042	8082
Aroclor 1254 [2C]	ND		19	4.0	ug/kg dry	1.00	09/23/09 13:18	SCH	9I22042	8082
Aroclor 1260 [2C]	**84**		19	4.0	ug/kg dry	1.00	09/23/09 13:18	SCH	9I22042	8082
Decachlorobiphenyl [2C]	*83 %*		*Surr Limits: (34-148%)*				*09/23/09 13:18*	*SCH*	*9I22042*	*8082*
Tetrachloro-m-xylene [2C]	*88 %*		*Surr Limits: (35-134%)*				*09/23/09 13:18*	*SCH*	*9I22042*	*8082*
General Chemistry Parameters										
Percent Solids	**86**		0.010	NR	%	1.00	09/22/09 14:47	CJM	9I22026	Dry Weight

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: B-4 (2-4) (RSI0741-05 - Solid)						**Sampled: 09/21/09 09:10**		**Recvd: 09/21/09 14:26**		
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016 [2C]	ND		20	3.8	ug/kg dry	1.00	09/23/09 13:37	SCH	9I22042	8082
Aroclor 1221 [2C]	ND		20	3.8	ug/kg dry	1.00	09/23/09 13:37	SCH	9I22042	8082
Aroclor 1232 [2C]	ND		20	3.8	ug/kg dry	1.00	09/23/09 13:37	SCH	9I22042	8082
Aroclor 1242 [2C]	ND		20	4.2	ug/kg dry	1.00	09/23/09 13:37	SCH	9I22042	8082
Aroclor 1248 [2C]	ND		20	3.8	ug/kg dry	1.00	09/23/09 13:37	SCH	9I22042	8082
Aroclor 1254 [2C]	ND		20	4.1	ug/kg dry	1.00	09/23/09 13:37	SCH	9I22042	8082
Aroclor 1260 [2C]	ND		20	4.1	ug/kg dry	1.00	09/23/09 13:37	SCH	9I22042	8082
Decachlorobiphenyl [2C]	*82 %*		*Surr Limits: (34-148%)*				*09/23/09 13:37*	*SCH*	*9I22042*	*8082*
Tetrachloro-m-xylene [2C]	*88 %*		*Surr Limits: (35-134%)*				*09/23/09 13:37*	*SCH*	*9I22042*	*8082*
General Chemistry Parameters										
Percent Solids	**85**		0.010	NR	%	1.00	09/22/09 14:49	CJM	9I22026	Dry Weight

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2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Client ID: B-4 (RSI0741-06 - Solid) — **Sampled: 09/21/09 09:15** — **Recvd: 09/21/09 14:26**

Volatile Organic Compounds by EPA 8260B

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
1,1,1-Trichloroethane	ND		5.7	0.41	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
1,1,2,2-Tetrachloroethane	ND		5.7	0.92	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
1,1,2-Trichloroethane	ND		5.7	0.28	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
1,1,2-Trichlorotrifluoroethane	ND		5.7	0.60	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
1,1-Dichloroethane	ND		5.7	0.28	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
1,1-Dichloroethene	ND		5.7	0.69	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
1,2,4-Trichlorobenzene	ND		5.7	0.34	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
1,2-Dibromo-3-chloropropane	ND		5.7	1.1	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
1,2-Dibromoethane (EDB)	ND		5.7	0.21	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
1,2-Dichlorobenzene	ND		5.7	0.85	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
1,2-Dichloroethane	ND		5.7	0.28	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
1,2-Dichloroethene, Total	ND		11	3.0	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
1,2-Dichloropropane	ND		5.7	0.29	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
1,3-Dichlorobenzene	ND		5.7	0.80	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
1,4-Dichlorobenzene	ND		5.7	0.79	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
2-Butanone (MEK)	ND		28	7.7	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
2-Hexanone	ND		28	2.0	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
4-Methyl-2-pentanone (MIBK)	ND		28	1.9	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
Acetone	ND		28	1.2	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
Benzene	ND		5.7	0.28	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
Bromodichloromethane	ND		5.7	0.29	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
Bromoform	ND		5.7	0.52	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
Bromomethane	ND		5.7	0.52	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
Carbon disulfide	ND		5.7	0.49	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
Carbon Tetrachloride	ND		5.7	0.20	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
Chlorobenzene	ND 1.9	U B, J	5.7	0.25	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
Chlorodibromomethane	ND		5.7	0.31	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
Chloroethane	ND		5.7	0.92	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
Chloroform	ND		5.7	0.35	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
Chloromethane	ND		5.7	0.34	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
cis-1,2-Dichloroethene	ND		5.7	0.28	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
cis-1,3-Dichloropropene	ND		5.7	0.32	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
Cyclohexane	ND		5.7	0.26	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
Dichlorodifluoromethane	ND		5.7	0.47	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
Ethylbenzene	ND		5.7	0.39	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
Isopropylbenzene	ND		5.7	0.37	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
Methyl Acetate	ND		5.7	0.31	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
Methyl tert-Butyl Ether	ND		5.7	0.56	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
Methylcyclohexane	ND		5.7	0.37	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
Methylene Chloride	13		5.7	0.39	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
Styrene	ND		5.7	0.28	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
Tetrachloroethene	ND		5.7	0.76	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
Toluene	ND	B	5.7	0.96	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
trans-1,2-Dichloroethene	ND		5.7	0.58	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
trans-1,3-Dichloropropene	ND		5.7	0.28	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
Trichloroethene	ND		5.7	0.39	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: B-4 (RSI0741-06 - Solid) - cont.							**Sampled: 09/21/09 09:15**		**Recvd: 09/21/09 14:26**	
Volatile Organic Compounds by EPA 8260B - cont.										
Trichlorofluoromethane	ND		5.7	1.8	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
Vinyl acetate	ND		28	1.2	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
Vinyl chloride	ND		11	0.23	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
Xylenes, total	ND		11	0.95	ug/kg dry	1.00	09/25/09 02:24	CDC	9I24113	8260B
1,2-Dichloroethane-d4	*100 %*		*Surr Limits: (64-126%)*				*09/25/09 02:24*	*CDC*	*9I24113*	*8260B*
4-Bromofluorobenzene	*107 %*		*Surr Limits: (72-126%)*				*09/25/09 02:24*	*CDC*	*9I24113*	*8260B*
Toluene-d8	*114 %*		*Surr Limits: (71-125%)*				*09/25/09 02:24*	*CDC*	*9I24113*	*8260B*
Semivolatile Organics by GC/MS										
2,4,5-Trichlorophenol	ND		190	41	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
2,4,6-Trichlorophenol	ND		190	13	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
2,4-Dichlorophenol	ND		190	9.9	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
2,4-Dimethylphenol	ND		190	51	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
2,4-Dinitrophenol	ND		370	66	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
2,4-Dinitrotoluene	ND		190	29	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
2,6-Dinitrotoluene	ND		190	46	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
2-Chloronaphthalene	ND		190	13	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
2-Chlorophenol	ND		190	9.6	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
2-Methylnaphthalene	**7.5**	J	190	2.3	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
2-Methylphenol	ND		190	5.8	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
2-Nitroaniline	ND		370	61	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
2-Nitrophenol	ND		190	8.7	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
3 & 4 Methylphenol	ND		370	11	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
3,3'-Dichlorobenzidine	ND		190	170	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
3-Nitroaniline	ND		370	44	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
4,6-Dinitro-2-methylphenol	ND		370	65	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
4-Bromophenyl phenyl ether	ND		190	60	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
4-Chloro-3-methylphenol	ND		190	7.8	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
4-Chloroaniline	ND		190	56	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
4-Chlorophenyl phenyl ether	ND		190	4.0	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
4-Nitroaniline	ND		370	21	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
4-Nitrophenol	ND		370	46	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Acenaphthene	ND		190	2.2	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Acenaphthylene	ND		190	1.5	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Acetophenone	ND		190	9.7	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Anthracene	ND		190	4.9	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Atrazine	ND	UJ	190	8.4	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Benzaldehyde	ND		190	21	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Benzo[a]anthracene	**92**	J	190	3.3	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Benzo[a]pyrene	**110**	J L, J	190	4.6	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Benzo[b]fluoranthene	**120**	J	190	3.7	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Benzo[g,h,i]perylene	**81**	J	190	2.3	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Benzo[k]fluoranthene	**46**	J	190	2.1	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Biphenyl	ND		190	12	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Bis(2-chloroethoxy)methane	ND		190	10	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Bis(2-chloroethyl)ether	ND		190	16	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Client ID: B-4 (RSI0741-06 - Solid) - cont. **Sampled: 09/21/09 09:15** **Recvd: 09/21/09 14:26**

Semivolatile Organics by GC/MS - cont.

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Bis(2-chloroisopropyl) ether	ND		190	20	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Bis(2-ethylhexyl) phthalate	**320**		190	61	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Butyl benzyl phthalate	ND		190	51	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Caprolactam	ND		190	82	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Carbazole	ND		190	2.2	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Chrysene	**97**	J	190	1.9	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Dibenz[a,h]anthracene	**22**	J	190	2.2	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Dibenzofuran	ND		190	2.0	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Diethyl phthalate	ND		190	5.7	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Dimethyl phthalate	ND		190	4.9	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Di-n-butyl phthalate	ND		190	66	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Di-n-octyl phthalate	ND		190	4.4	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Fluoranthene	**140**	J	190	2.7	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Fluorene	ND		190	4.4	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Hexachlorobenzene	ND		190	9.4	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Hexachlorobutadiene	ND		190	9.7	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Hexachlorocyclopentadiene	ND		190	57	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Hexachloroethane	ND		190	15	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Indeno[1,2,3-cd]pyrene	**69**	J	190	5.2	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Isophorone	ND		190	9.5	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Naphthalene	ND		190	3.2	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Nitrobenzene	ND		190	8.4	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
N-Nitrosodi-n-propylamine	ND		190	15	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
N-Nitrosodiphenylamine	ND	L	190	10	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Phenanthrene	**58**	J	190	4.0	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Phenol	ND		190	20	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
Pyrene	**130**	J	190	1.2	ug/kg dry	1.00	09/26/09 16:13	ERK	9I22039	8270C
2,4,6-Tribromophenol	*78 %*		*Surr Limits: (39-146%)*				*09/26/09 16:13*	*ERK*	*9I22039*	*8270C*
2-Fluorobiphenyl	*74 %*		*Surr Limits: (37-120%)*				*09/26/09 16:13*	*ERK*	*9I22039*	*8270C*
2-Fluorophenol	*62 %*		*Surr Limits: (18-120%)*				*09/26/09 16:13*	*ERK*	*9I22039*	*8270C*
Nitrobenzene-d5	*68 %*		*Surr Limits: (34-132%)*				*09/26/09 16:13*	*ERK*	*9I22039*	*8270C*
Phenol-d5	*69 %*		*Surr Limits: (11-120%)*				*09/26/09 16:13*	*ERK*	*9I22039*	*8270C*
p-Terphenyl-d14	*76 %*		*Surr Limits: (58-147%)*				*09/26/09 16:13*	*ERK*	*9I22039*	*8270C*

Organochlorine Pesticides by EPA Method 8081A

4,4'-DDD [2C]	ND	QFL	1.9	0.37	ug/kg dry	1.00	09/30/09 02:55	MAN	9I22040	8081A
4,4'-DDE [2C]	ND	QFL	1.9	0.54	ug/kg dry	1.00	09/30/09 02:55	MAN	9I22040	8081A
4,4'-DDT [2C]	ND	QFL	1.9	0.43	ug/kg dry	1.00	09/30/09 02:55	MAN	9I22040	8081A
Aldrin [2C]	ND	QFL	1.9	0.19	ug/kg dry	1.00	09/30/09 02:55	MAN	9I22040	8081A
alpha-BHC [2C]	ND	QFL	1.9	0.34	ug/kg dry	1.00	09/30/09 02:55	MAN	9I22040	8081A
alpha-Chlordane [2C]	ND	QFL	1.9	0.94	ug/kg dry	1.00	09/30/09 02:55	MAN	9I22040	8081A
beta-BHC [2C]	ND	QFL	1.9	1.4	ug/kg dry	1.00	09/30/09 02:55	MAN	9I22040	8081A
Chlordane [2C]	ND	QFL	19	4.2	ug/kg dry	1.00	09/30/09 02:55	MAN	9I22040	8081A
delta-BHC [2C]	**0.85**	QFL,J	1.9	0.25	ug/kg dry	1.00	09/30/09 02:55	MAN	9I22040	8081A
Dieldrin [2C]	**1.2** NJ	QFL,J	1.9	0.45	ug/kg dry	1.00	09/30/09 02:55	MAN	9I22040	8081A
Endosulfan I [2C]	ND	QFL	1.9	0.40	ug/kg dry	1.00	09/30/09 02:55	MAN	9I22040	8081A
Endosulfan II [2C]	ND	QFL	1.9	0.34	ug/kg dry	1.00	09/30/09 02:55	MAN	9I22040	8081A

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Client ID: B-4 (RSI0741-06 - Solid) - cont. **Sampled: 09/21/09 09:15** **Recvd: 09/21/09 14:26**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Organochlorine Pesticides by EPA Method 8081A - cont.										
Endosulfan sulfate [2C]	ND	QFL	1.9	0.35	ug/kg dry	1.00	09/30/09 02:55	MAN	9I22040	8081A
Endrin [2C]	**1.1**	QFL,J	1.9	0.61	ug/kg dry	1.00	09/30/09 02:55	MAN	9I22040	8081A
Endrin aldehyde [2C]	ND	QFL	1.9	0.48	ug/kg dry	1.00	09/30/09 02:55	MAN	9I22040	8081A
Endrin ketone [2C]	ND	QFL	1.9	0.46	ug/kg dry	1.00	09/30/09 02:55	MAN	9I22040	8081A
gamma-BHC (Lindane) [2C]	ND	QFL	1.9	0.33	ug/kg dry	1.00	09/30/09 02:55	MAN	9I22040	8081A
gamma-Chlordane [2C]	**0.53**	QFL,J	1.9	0.26	ug/kg dry	1.00	09/30/09 02:55	MAN	9I22040	8081A
Heptachlor [2C]	ND	QFL	1.9	0.29	ug/kg dry	1.00	09/30/09 02:55	MAN	9I22040	8081A
Heptachlor epoxide [2C]	ND	QFL	1.9	0.49	ug/kg dry	1.00	09/30/09 02:55	MAN	9I22040	8081A
Methoxychlor [2C]	ND	QFL	1.9	0.50	ug/kg dry	1.00	09/30/09 02:55	MAN	9I22040	8081A
Toxaphene [2C]	ND	QFL	19	11	ug/kg dry	1.00	09/30/09 02:55	MAN	9I22040	8081A
Decachlorobiphenyl [2C]	*102 %*	*QFL*	*Surr Limits: (42-146%)*				*09/30/09 02:55*	*MAN*	*9I22040*	*8081A*
Tetrachloro-m-xylene [2C]	*73 %*	*QFL*	*Surr Limits: (37-136%)*				*09/30/09 02:55*	*MAN*	*9I22040*	*8081A*
Total Metals by SW 846 Series Methods										
Aluminum	**6160**		11.1	NR	mg/kg dry	1.00	09/25/09 03:51	LMH	9I23026	6010B
Antimony	ND		16.6	NR	mg/kg dry	1.00	09/24/09 02:11	AMH	9I23026	6010B
Arsenic	**2.4**		2.2	NR	mg/kg dry	1.00	09/24/09 02:11	AMH	9I23026	6010B
Barium	**39.8**		0.555	NR	mg/kg dry	1.00	09/24/09 02:11	AMH	9I23026	6010B
Beryllium	**0.293**		0.222	NR	mg/kg dry	1.00	09/24/09 02:11	AMH	9I23026	6010B
Cadmium	**0.243**		0.222	NR	mg/kg dry	1.00	09/24/09 02:11	AMH	9I23026	6010B
Calcium	**41500**		55.5	NR	mg/kg dry	1.00	09/24/09 02:11	AMH	9I23026	6010B
Chromium	**9.88**		0.555	NR	mg/kg dry	1.00	09/24/09 02:11	AMH	9I23026	6010B
Cobalt	**4.70**		0.555	NR	mg/kg dry	1.00	09/24/09 02:11	AMH	9I23026	6010B
Copper	**11.1**		1.1	NR	mg/kg dry	1.00	09/24/09 02:11	AMH	9I23026	6010B
Iron	**11700**	B1, B3, B	11.1	NR	mg/kg dry	1.00	09/24/09 02:11	AMH	9I23026	6010B
Lead	**13.8**		1.1	NR	mg/kg dry	1.00	09/24/09 02:11	AMH	9I23026	6010B
Magnesium	**3390**		22.2	NR	mg/kg dry	1.00	09/24/09 02:11	AMH	9I23026	6010B
Manganese	**337**	B1, B	0.2	NR	mg/kg dry	1.00	09/24/09 02:11	AMH	9I23026	6010B
Nickel	**10.3**		5.55	NR	mg/kg dry	1.00	09/24/09 02:11	AMH	9I23026	6010B
Potassium	**1170**		33.3	NR	mg/kg dry	1.00	09/24/09 02:11	AMH	9I23026	6010B
Selenium	ND		4.4	NR	mg/kg dry	1.00	09/24/09 02:11	AMH	9I23026	6010B
Silver	ND		0.555	NR	mg/kg dry	1.00	09/24/09 02:11	AMH	9I23026	6010B
Sodium	ND		155	NR	mg/kg dry	1.00	09/24/09 02:11	AMH	9I23026	6010B
Thallium	ND		6.7	NR	mg/kg dry	1.00	09/24/09 02:11	AMH	9I23026	6010B
Vanadium	**14.6**		0.555	NR	mg/kg dry	1.00	09/24/09 02:11	AMH	9I23026	6010B
Zinc	**62.8**		2.2	NR	mg/kg dry	1.00	09/24/09 02:11	AMH	9I23026	6010B
Mercury	ND		0.0225	NR	mg/kg dry	1.00	09/29/09 17:10	MXM	9I25041	7471A
General Chemistry Parameters										
Percent Solids	**88**		0.010	NR	%	1.00	09/22/09 14:51	CJM	9I22026	Dry Weight
Cyanide	ND		1.1	1.0	mg/kg dry	1.00	09/24/09 08:13	jmm	9I23064	9012A

Golder Associates, Inc. - Niagara Falls, NY
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SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: B-5 (0-2) (RSI0695-05 - Solid)						**Sampled: 09/18/09 09:57**		**Recvd: 09/18/09 18:43**		
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016 [2C]	ND	D08	930	180	ug/kg dry	50.0	09/23/09 10:51	SCH	9I22042	8082
Aroclor 1221 [2C]	ND	D08	930	180	ug/kg dry	50.0	09/23/09 10:51	SCH	9I22042	8082
Aroclor 1232 [2C]	ND	D08	930	180	ug/kg dry	50.0	09/23/09 10:51	SCH	9I22042	8082
Aroclor 1242 [2C]	ND	D08	930	200	ug/kg dry	50.0	09/23/09 10:51	SCH	9I22042	8082
Aroclor 1248 [2C]	ND	D08	930	180	ug/kg dry	50.0	09/23/09 10:51	SCH	9I22042	8082
Aroclor 1254 [2C]	ND	D08	930	200	ug/kg dry	50.0	09/23/09 10:51	SCH	9I22042	8082
Aroclor 1260 [2C]	**10000**	D08	930	200	ug/kg dry	50.0	09/23/09 10:51	SCH	9I22042	8082
Decachlorobiphenyl [2C]	*	*D08,Z3*	*Surr Limits: (34-148%)*				*09/23/09 10:51*	*SCH*	*9I22042*	*8082*
Tetrachloro-m-xylene [2C]	*	*D08,Z3*	*Surr Limits: (35-134%)*				*09/23/09 10:51*	*SCH*	*9I22042*	*8082*
General Chemistry Parameters										
Percent Solids	**89**		0.010	NR	%	1.00	09/20/09 16:20	KMB	9I19015	Dry Weight

Golder Associates, Inc. - Niagara Falls, NY
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Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: B-5 (2-4) (RSI0695-06 - Solid)						**Sampled: 09/18/09 10:05**		**Recvd: 09/18/09 18:43**		
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016 [2C]	ND	D08	1000	200	ug/kg dry	50.0	09/23/09 11:09	SCH	9I22042	8082
Aroclor 1221 [2C]	ND	D08	1000	200	ug/kg dry	50.0	09/23/09 11:09	SCH	9I22042	8082
Aroclor 1232 [2C]	ND	D08	1000	200	ug/kg dry	50.0	09/23/09 11:09	SCH	9I22042	8082
Aroclor 1242 [2C]	ND	D08	1000	220	ug/kg dry	50.0	09/23/09 11:09	SCH	9I22042	8082
Aroclor 1248 [2C]	ND	D08	1000	200	ug/kg dry	50.0	09/23/09 11:09	SCH	9I22042	8082
Aroclor 1254 [2C]	ND	D08	1000	210	ug/kg dry	50.0	09/23/09 11:09	SCH	9I22042	8082
Aroclor 1260 [2C]	**3500**	D08	1000	210	ug/kg dry	50.0	09/23/09 11:09	SCH	9I22042	8082
Decachlorobiphenyl [2C]	*	*D08,Z3*	*Surr Limits: (34-148%)*				*09/23/09 11:09*	*SCH*	*9I22042*	*8082*
Tetrachloro-m-xylene [2C]	*	*D08,Z3*	*Surr Limits: (35-134%)*				*09/23/09 11:09*	*SCH*	*9I22042*	*8082*
General Chemistry Parameters										
Percent Solids	**82**		0.010	NR	%	1.00	09/20/09 16:22	KMB	9I19015	Dry Weight

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SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Client ID: B-5 (RSI0695-07 - Solid) — **Sampled: 09/18/09 10:10** — **Recvd: 09/18/09 18:43**

Volatile Organic Compounds by EPA 8260B

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
1,1,1-Trichloroethane	ND		5.9	0.43	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
1,1,2,2-Tetrachloroethane	ND		5.9	0.96	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
1,1,2-Trichloroethane	ND		5.9	0.30	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
1,1,2-Trichlorotrifluoroethane	ND		5.9	0.62	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
1,1-Dichloroethane	ND		5.9	0.29	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
1,1-Dichloroethene	ND		5.9	0.72	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
1,2,4-Trichlorobenzene	ND		5.9	0.36	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
1,2-Dibromo-3-chloropropane	ND		5.9	1.2	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
1,2-Dibromoethane (EDB)	ND		5.9	0.22	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
1,2-Dichlorobenzene	ND		5.9	0.89	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
1,2-Dichloroethane	ND		5.9	0.30	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
1,2-Dichloroethene, Total	ND		12	3.1	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
1,2-Dichloropropane	ND		5.9	0.30	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
1,3-Dichlorobenzene	ND		5.9	0.83	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
1,4-Dichlorobenzene	ND		5.9	0.82	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
2-Butanone (MEK)	ND		29	8.0	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
2-Hexanone	ND		29	2.0	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
4-Methyl-2-pentanone (MIBK)	ND		29	1.9	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
Acetone	ND		29	1.3	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
Benzene	ND		5.9	0.29	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
Bromodichloromethane	ND		5.9	0.30	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
Bromoform	ND		5.9	0.54	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
Bromomethane	ND		5.9	0.54	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
Carbon disulfide	ND		5.9	0.51	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
Carbon Tetrachloride	ND		5.9	0.21	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
Chlorobenzene	ND 2.2 U	B, J	5.9	0.26	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
Chlorodibromomethane	ND		5.9	0.33	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
Chloroethane	ND		5.9	0.95	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
Chloroform	ND		5.9	0.36	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
Chloromethane	ND		5.9	0.36	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
cis-1,2-Dichloroethene	ND		5.9	0.29	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
cis-1,3-Dichloropropene	ND		5.9	0.34	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
Cyclohexane	ND		5.9	0.27	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
Dichlorodifluoromethane	ND		5.9	0.49	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
Ethylbenzene	ND		5.9	0.41	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
Isopropylbenzene	ND		5.9	0.39	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
Methyl Acetate	ND		5.9	0.32	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
Methyl tert-Butyl Ether	ND		5.9	0.58	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
Methylcyclohexane	ND		5.9	0.38	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
Methylene Chloride	**26**		5.9	0.41	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
Styrene	ND		5.9	0.29	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
Tetrachloroethene	ND		5.9	0.79	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
Toluene	ND	B	5.9	1.0	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
trans-1,2-Dichloroethene	ND		5.9	0.61	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
trans-1,3-Dichloropropene	ND		5.9	0.29	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
Trichloroethene	ND		5.9	0.41	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: B-5 (RSI0695-07 - Solid) - cont.							**Sampled: 09/18/09 10:10**		**Recvd: 09/18/09 18:43**	
Volatile Organic Compounds by EPA 8260B - cont.										
Trichlorofluoromethane	ND		5.9	1.8	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
Vinyl acetate	ND		29	1.2	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
Vinyl chloride	ND		12	0.24	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
Xylenes, total	**1.3**	J	12	0.99	ug/kg dry	1.00	09/25/09 01:08	CDC	9I24113	8260B
1,2-Dichloroethane-d4	*104 %*		*Surr Limits: (64-126%)*				*09/25/09 01:08*	*CDC*	*9I24113*	*8260B*
4-Bromofluorobenzene	*107 %*		*Surr Limits: (72-126%)*				*09/25/09 01:08*	*CDC*	*9I24113*	*8260B*
Toluene-d8	*115 %*		*Surr Limits: (71-125%)*				*09/25/09 01:08*	*CDC*	*9I24113*	*8260B*
Semivolatile Organics by GC/MS										
2,4,5-Trichlorophenol	ND	D12	3900	850	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
2,4,6-Trichlorophenol	ND	D12	3900	260	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
2,4-Dichlorophenol	ND	D12	3900	200	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
2,4-Dimethylphenol	ND	D12	3900	1100	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
2,4-Dinitrophenol	ND	D12	7600	1400	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
2,4-Dinitrotoluene	ND	D12	3900	600	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
2,6-Dinitrotoluene	ND	D12	3900	950	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
2-Chloronaphthalene	ND	D12	3900	260	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
2-Chlorophenol	ND	D12	3900	200	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
2-Methylnaphthalene	ND	D12	3900	47	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
2-Methylphenol	ND	D12	3900	120	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
2-Nitroaniline	ND	D12	7600	1200	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
2-Nitrophenol	ND	D12	3900	180	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
3 & 4 Methylphenol	ND	D12	7600	220	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
3,3'-Dichlorobenzidine	ND	D12	3900	3400	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
3-Nitroaniline	ND	D12	7600	890	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
4,6-Dinitro-2-methylphenol	ND	D12	7600	1300	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
4-Bromophenyl phenyl ether	ND	D12	3900	1200	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
4-Chloro-3-methylphenol	ND	D12	3900	160	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
4-Chloroaniline	ND	D12	3900	1100	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
4-Chlorophenyl phenyl ether	ND	D12	3900	83	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
4-Nitroaniline	ND	D12	7600	430	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
4-Nitrophenol	ND	D12	7600	940	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Acenaphthene	ND	D12	3900	46	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Acenaphthylene	ND	D12	3900	32	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Acetophenone	ND	D12	3900	200	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Anthracene	ND	D12	3900	100	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Atrazine	ND	D12,N1	3900	170	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Benzaldehyde	ND UJ	D12	3900	430	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Benzo[a]anthracene	**680**	D12,J	3900	67	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Benzo[a]pyrene	**790**	D12,J	3900	94	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Benzo[b]fluoranthene	**810**	D12,J	3900	75	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Benzo[g,h,i]perylene	**620**	D12,J	3900	47	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Benzo[k]fluoranthene	**420**	D12,J	3900	43	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Biphenyl	ND	D12	3900	240	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Bis(2-chloroethoxy)methane	ND	D12	3900	210	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Bis(2-chloroethyl)ether	ND	D12	3900	340	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: B-5 (RSI0695-07 - Solid) - cont.							**Sampled: 09/18/09 10:10**		**Recvd: 09/18/09 18:43**	
Semivolatile Organics by GC/MS - cont.										
Bis(2-chloroisopropyl) ether	ND	D12	3900	410	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Bis(2-ethylhexyl) phthalate	ND	D12	3900	1300	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Butyl benzyl phthalate	ND	D12	3900	1000	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Caprolactam	ND	D12	3900	1700	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Carbazole	ND	D12	3900	45	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Chrysene	**630**	D12,J	3900	39	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Dibenz[a,h]anthracene	ND	D12	3900	46	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Dibenzofuran	ND	D12	3900	40	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Diethyl phthalate	ND	D12	3900	120	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Dimethyl phthalate	ND	D12	3900	100	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Di-n-butyl phthalate	ND	D12	3900	1300	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Di-n-octyl phthalate	ND	D12	3900	91	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Fluoranthene	**1200**	D12,J	3900	56	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Fluorene	ND	D12	3900	90	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Hexachlorobenzene	ND	D12	3900	190	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Hexachlorobutadiene	ND	D12	3900	200	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Hexachlorocyclopentadiene	ND	D12	3900	1200	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Hexachloroethane	ND	D12	3900	300	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Indeno[1,2,3-cd]pyrene	**530**	D12,J	3900	110	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Isophorone	ND	D12	3900	190	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Naphthalene	ND	D12	3900	65	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Nitrobenzene	ND	D12	3900	170	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
N-Nitrosodi-n-propylamine	ND	D12	3900	310	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
N-Nitrosodiphenylamine	ND	D12,L	3900	210	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Phenanthrene	**660**	D12,J	3900	82	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Phenol	ND	D12	3900	410	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
Pyrene	**980**	D12,J	3900	25	ug/kg dry	20.0	09/24/09 01:05	JLG	9I18138	8270C
2,4,6-Tribromophenol	*84 %*	*D12*	*Surr Limits: (39-146%)*				*09/24/09 01:05*	*JLG*	*9I18138*	*8270C*
2-Fluorobiphenyl	*76 %*	*D12*	*Surr Limits: (37-120%)*				*09/24/09 01:05*	*JLG*	*9I18138*	*8270C*
2-Fluorophenol	*47 %*	*D12*	*Surr Limits: (18-120%)*				*09/24/09 01:05*	*JLG*	*9I18138*	*8270C*
Nitrobenzene-d5	*52 %*	*D12*	*Surr Limits: (34-132%)*				*09/24/09 01:05*	*JLG*	*9I18138*	*8270C*
Phenol-d5	*61 %*	*D12*	*Surr Limits: (11-120%)*				*09/24/09 01:05*	*JLG*	*9I18138*	*8270C*
p-Terphenyl-d14	*79 %*	*D12*	*Surr Limits: (58-147%)*				*09/24/09 01:05*	*JLG*	*9I18138*	*8270C*
Organochlorine Pesticides by EPA Method 8081A										
4,4'-DDD [2C]	ND	QFL, D04	380	74	ug/kg dry	200	09/29/09 23:55	MAN	9I22040	8081A
4,4'-DDE [2C]	ND	QFL, D04	380	110	ug/kg dry	200	09/29/09 23:55	MAN	9I22040	8081A
4,4'-DDT [2C]	**1500**	QFL, D04	380	87	ug/kg dry	200	09/29/09 23:55	MAN	9I22040	8081A
Aldrin [2C]	ND	QFL, D04	380	39	ug/kg dry	200	09/29/09 23:55	MAN	9I22040	8081A
alpha-BHC [2C]	ND	QFL, D04	380	69	ug/kg dry	200	09/29/09 23:55	MAN	9I22040	8081A
alpha-Chlordane [2C]	ND	QFL, D04	380	190	ug/kg dry	200	09/29/09 23:55	MAN	9I22040	8081A
beta-BHC [2C]	ND	QFL, D04	380	280	ug/kg dry	200	09/29/09 23:55	MAN	9I22040	8081A
Chlordane [2C]	ND	QFL, D04	3800	850	ug/kg dry	200	09/29/09 23:55	MAN	9I22040	8081A
delta-BHC [2C]	ND	QFL, D04	380	50	ug/kg dry	200	09/29/09 23:55	MAN	9I22040	8081A
Dieldrin [2C]	**340** NJ	QFL, D04,J	380	92	ug/kg dry	200	09/29/09 23:55	MAN	9I22040	8081A
Endosulfan I [2C]	ND	QFL, D04	380	81	ug/kg dry	200	09/29/09 23:55	MAN	9I22040	8081A
Endosulfan II [2C]	ND	QFL, D04	380	69	ug/kg dry	200	09/29/09 23:55	MAN	9I22040	8081A

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Client ID: B-5 (RSI0695-07 - Solid) - cont. **Sampled: 09/18/09 10:10** **Recvd: 09/18/09 18:43**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Organochlorine Pesticides by EPA Method 8081A - cont.										
Endosulfan sulfate [2C]	ND	QFL, D04	380	71	ug/kg dry	200	09/29/09 23:55	MAN	9I22040	8081A
Endrin [2C]	**260**	QFL, D04,J	380	120	ug/kg dry	200	09/29/09 23:55	MAN	9I22040	8081A
Endrin aldehyde [2C]	ND	QFL, D04	380	98	ug/kg dry	200	09/29/09 23:55	MAN	9I22040	8081A
Endrin ketone [2C]	**110**	QFL, D04,J	380	94	ug/kg dry	200	09/29/09 23:55	MAN	9I22040	8081A
gamma-BHC (Lindane) [2C]	ND	QFL, D04	380	66	ug/kg dry	200	09/29/09 23:55	MAN	9I22040	8081A
gamma-Chlordane [2C]	ND	QFL, D04	380	52	ug/kg dry	200	09/29/09 23:55	MAN	9I22040	8081A
Heptachlor [2C]	ND	QFL, D04	380	60	ug/kg dry	200	09/29/09 23:55	MAN	9I22040	8081A
Heptachlor epoxide [2C]	ND	QFL, D04	380	99	ug/kg dry	200	09/29/09 23:55	MAN	9I22040	8081A
Methoxychlor [2C]	ND	QFL, D04	380	100	ug/kg dry	200	09/29/09 23:55	MAN	9I22040	8081A
Toxaphene [2C]	ND	QFL, D04	3800	2200	ug/kg dry	200	09/29/09 23:55	MAN	9I22040	8081A
Decachlorobiphenyl [2C]	*	*QFL, D04,Z3*	*Surr Limits: (42-146%)*				*09/29/09 23:55*	*MAN*	*9I22040*	*8081A*
Tetrachloro-m-xylene [2C]	*	*QFL, D04,Z3*	*Surr Limits: (37-136%)*				*09/29/09 23:55*	*MAN*	*9I22040*	*8081A*
Total Metals by SW 846 Series Methods										
Aluminum	**14800**		11.2	NR	mg/kg dry	1.00	09/25/09 03:36	LMH	9I23026	6010B
Antimony	ND		16.8	NR	mg/kg dry	1.00	09/24/09 01:57	AMH	9I23026	6010B
Arsenic	**5.9**		2.2	NR	mg/kg dry	1.00	09/24/09 01:57	AMH	9I23026	6010B
Barium	**118**		0.561	NR	mg/kg dry	1.00	09/24/09 01:57	AMH	9I23026	6010B
Beryllium	**0.657**		0.225	NR	mg/kg dry	1.00	09/24/09 01:57	AMH	9I23026	6010B
Cadmium	**0.285**		0.225	NR	mg/kg dry	1.00	09/24/09 01:57	AMH	9I23026	6010B
Calcium	**4490**		56.1	NR	mg/kg dry	1.00	09/24/09 01:57	AMH	9I23026	6010B
Chromium	**18.6**		0.561	NR	mg/kg dry	1.00	09/24/09 01:57	AMH	9I23026	6010B
Cobalt	**10.6**		0.561	NR	mg/kg dry	1.00	09/24/09 01:57	AMH	9I23026	6010B
Copper	**27.1**		1.1	NR	mg/kg dry	1.00	09/24/09 01:57	AMH	9I23026	6010B
Iron	**24500**	B1, B3, B	11.2	NR	mg/kg dry	1.00	09/24/09 01:57	AMH	9I23026	6010B
Lead	**26.2**		1.1	NR	mg/kg dry	1.00	09/24/09 01:57	AMH	9I23026	6010B
Magnesium	**5040**		22.5	NR	mg/kg dry	1.00	09/24/09 01:57	AMH	9I23026	6010B
Manganese	**614**	B1, B	0.2	NR	mg/kg dry	1.00	09/24/09 01:57	AMH	9I23026	6010B
Nickel	**22.2**		5.61	NR	mg/kg dry	1.00	09/24/09 01:57	AMH	9I23026	6010B
Potassium	**1900**		33.7	NR	mg/kg dry	1.00	09/24/09 01:57	AMH	9I23026	6010B
Selenium	ND		4.5	NR	mg/kg dry	1.00	09/24/09 01:57	AMH	9I23026	6010B
Silver	ND		0.561	NR	mg/kg dry	1.00	09/24/09 01:57	AMH	9I23026	6010B
Sodium	ND		157	NR	mg/kg dry	1.00	09/24/09 01:57	AMH	9I23026	6010B
Thallium	ND		6.7	NR	mg/kg dry	1.00	09/24/09 01:57	AMH	9I23026	6010B
Vanadium	**28.1**		0.561	NR	mg/kg dry	1.00	09/24/09 01:57	AMH	9I23026	6010B
Zinc	**86.9**		2.2	NR	mg/kg dry	1.00	09/24/09 01:57	AMH	9I23026	6010B
Mercury	**0.168**		0.0253	NR	mg/kg dry	1.00	09/25/09 14:43	MXM	9I24107	7471A
General Chemistry Parameters										
Percent Solids	**85**		0.010	NR	%	1.00	09/20/09 16:24	KMB	9I19015	Dry Weight
Cyanide	**1.0**	J	1.1	1.0	mg/kg dry	1.00	09/23/09 09:50	jmm	9I23015	9012A

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: B-6 (0-2) (RSI0695-08 - Solid)						**Sampled: 09/18/09 12:20**		**Recvd: 09/18/09 18:43**		
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016 [2C]	ND	D08	870	170	ug/kg dry	50.0	09/23/09 11:28	SCH	9I22042	8082
Aroclor 1221 [2C]	ND	D08	870	170	ug/kg dry	50.0	09/23/09 11:28	SCH	9I22042	8082
Aroclor 1232 [2C]	ND	D08	870	170	ug/kg dry	50.0	09/23/09 11:28	SCH	9I22042	8082
Aroclor 1242 [2C]	ND	D08	870	190	ug/kg dry	50.0	09/23/09 11:28	SCH	9I22042	8082
Aroclor 1248 [2C]	ND	D08	870	170	ug/kg dry	50.0	09/23/09 11:28	SCH	9I22042	8082
Aroclor 1254 [2C]	ND	D08	870	180	ug/kg dry	50.0	09/23/09 11:28	SCH	9I22042	8082
Aroclor 1260 [2C]	**2200**	D08	870	180	ug/kg dry	50.0	09/23/09 11:28	SCH	9I22042	8082
Decachlorobiphenyl [2C]	*	*D08,Z3*	*Surr Limits: (34-148%)*				*09/23/09 11:28*	*SCH*	*9I22042*	*8082*
Tetrachloro-m-xylene [2C]	*	*D08,Z3*	*Surr Limits: (35-134%)*				*09/23/09 11:28*	*SCH*	*9I22042*	*8082*
General Chemistry Parameters										
Percent Solids	**94**		0.010	NR	%	1.00	09/20/09 16:26	KMB	9I19015	Dry Weight

Golder Associates, Inc. - Niagara Falls, NY
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SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: B-6 (2-4) (RSI0695-09 - Solid)						**Sampled: 09/18/09 12:25**		**Recvd: 09/18/09 18:43**		
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016 [2C]	ND		19	3.7	ug/kg dry	1.00	09/23/09 11:46	SCH	9I22042	8082
Aroclor 1221 [2C]	ND		19	3.7	ug/kg dry	1.00	09/23/09 11:46	SCH	9I22042	8082
Aroclor 1232 [2C]	ND		19	3.7	ug/kg dry	1.00	09/23/09 11:46	SCH	9I22042	8082
Aroclor 1242 [2C]	ND		19	4.1	ug/kg dry	1.00	09/23/09 11:46	SCH	9I22042	8082
Aroclor 1248 [2C]	ND		19	3.7	ug/kg dry	1.00	09/23/09 11:46	SCH	9I22042	8082
Aroclor 1254 [2C]	ND		19	4.0	ug/kg dry	1.00	09/23/09 11:46	SCH	9I22042	8082
Aroclor 1260 [2C]	**52**		19	4.0	ug/kg dry	1.00	09/23/09 11:46	SCH	9I22042	8082
Decachlorobiphenyl [2C]	*81 %*		*Surr Limits: (34-148%)*				*09/23/09 11:46*	*SCH*	*9I22042*	*8082*
Tetrachloro-m-xylene [2C]	*84 %*		*Surr Limits: (35-134%)*				*09/23/09 11:46*	*SCH*	*9I22042*	*8082*
General Chemistry Parameters										
Percent Solids	**88**		0.010	NR	%	1.00	09/20/09 16:28	KMB	9I19015	Dry Weight

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: B-6 (RSI0695-10 - Solid)						**Sampled: 09/18/09 12:30**		**Recvd: 09/18/09 18:43**		
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND		5.4	0.39	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
1,1,2,2-Tetrachloroethane	ND	M8	5.4	0.87	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
1,1,2-Trichloroethane	ND	M8	5.4	0.27	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
1,1,2-Trichlorotrifluoroethane	ND		5.4	0.57	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
1,1-Dichloroethane	ND	M8	5.4	0.27	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
1,1-Dichloroethene	ND	M8	5.4	0.66	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
1,2,4-Trichlorobenzene	ND	M8	5.4	0.33	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
1,2-Dibromo-3-chloropropane	ND	M8	5.4	1.1	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
1,2-Dibromoethane (EDB)	ND	M8	5.4	0.20	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
1,2-Dichlorobenzene	ND	M8	5.4	0.81	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
1,2-Dichloroethane	ND	M8	5.4	0.27	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
1,2-Dichloroethene, Total	ND	M8	11	2.8	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
1,2-Dichloropropane	ND	M8	5.4	0.27	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
1,3-Dichlorobenzene	ND	M8	5.4	0.76	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
1,4-Dichlorobenzene	ND	M8	5.4	0.75	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
2-Butanone (MEK)	ND	M8	27	7.3	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
2-Hexanone	ND	M8	27	1.9	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
4-Methyl-2-pentanone (MIBK)	ND	M8	27	1.8	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
Acetone	ND		27	1.2	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
Benzene	ND	M8	5.4	0.26	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
Bromodichloromethane	ND	M8	5.4	0.28	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
Bromoform	ND	M8	5.4	0.49	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
Bromomethane	ND		5.4	0.49	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
Carbon disulfide	ND	M8	5.4	0.46	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
Carbon Tetrachloride	ND	M8	5.4	0.19	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
Chlorobenzene	~~2.0~~	M8, B, J	5.4	0.23	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
Chlorodibromomethane	ND	M8	5.4	0.30	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
Chloroethane	ND		5.4	0.87	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
Chloroform	ND	M8	5.4	0.33	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
Chloromethane	ND		5.4	0.32	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
cis-1,2-Dichloroethene	ND	M8	5.4	0.26	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
cis-1,3-Dichloropropene	ND	M8	5.4	0.31	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
Cyclohexane	ND	M8	5.4	0.25	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
Dichlorodifluoromethane	ND		5.4	0.44	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
Ethylbenzene	ND	M8	5.4	0.37	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
Isopropylbenzene	ND	M8	5.4	0.35	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
Methyl Acetate	ND		5.4	0.29	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
Methyl tert-Butyl Ether	ND		5.4	0.53	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
Methylcyclohexane	ND	M8	5.4	0.35	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
Methylene Chloride	**19**		5.4	0.37	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
Styrene	ND	M8	5.4	0.27	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
Tetrachloroethene	ND	M8	5.4	0.72	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
Toluene	ND	M8, B	5.4	0.91	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
trans-1,2-Dichloroethene	ND	M8	5.4	0.55	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
trans-1,3-Dichloropropene	ND	M8	5.4	0.26	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
Trichloroethene	ND	M8	5.4	0.37	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B

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SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: B-6 (RSI0695-10 - Solid) - cont.							**Sampled: 09/18/09 12:30**		**Recvd: 09/18/09 18:43**	
Volatile Organic Compounds by EPA 8260B - cont.										
Trichlorofluoromethane	ND		5.4	1.7	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
~~Vinyl acetate~~	~~ND~~ R	M8	27	1.1	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
Vinyl chloride	ND		11	0.22	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
Xylenes, total	ND	M8	11	0.90	ug/kg dry	1.00	09/25/09 01:33	CDC	9I24113	8260B
1,2-Dichloroethane-d4	*104 %*		*Surr Limits: (64-126%)*				*09/25/09 01:33*	*CDC*	*9I24113*	*8260B*
4-Bromofluorobenzene	*107 %*		*Surr Limits: (72-126%)*				*09/25/09 01:33*	*CDC*	*9I24113*	*8260B*
Toluene-d8	*114 %*		*Surr Limits: (71-125%)*				*09/25/09 01:33*	*CDC*	*9I24113*	*8260B*
Semivolatile Organics by GC/MS										
2,4,5-Trichlorophenol	ND	D10	1800	400	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
2,4,6-Trichlorophenol	ND	D10	1800	120	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
2,4-Dichlorophenol	ND	D10	1800	96	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
2,4-Dimethylphenol	ND	D10	1800	500	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
2,4-Dinitrophenol	ND	D10	3600	640	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
2,4-Dinitrotoluene	ND	D10	1800	280	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
2,6-Dinitrotoluene	ND	D10	1800	450	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
2-Chloronaphthalene	ND	D10	1800	120	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
2-Chlorophenol	ND	D10	1800	93	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
2-Methylnaphthalene	**110**	D10,J	1800	22	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
2-Methylphenol	ND	D10	1800	56	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
2-Nitroaniline	ND	D10	3600	590	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
2-Nitrophenol	ND	D10	1800	84	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
3 & 4 Methylphenol	ND	D10	3600	100	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
3,3'-Dichlorobenzidine	ND	D10	1800	1600	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
3-Nitroaniline	ND	D10	3600	420	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
4,6-Dinitro-2-methylphenol	ND	D10	3600	630	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
4-Bromophenyl phenyl ether	ND	D10	1800	580	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
4-Chloro-3-methylphenol	ND	D10	1800	75	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
4-Chloroaniline	ND	D10	1800	540	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
4-Chlorophenyl phenyl ether	ND	D10	1800	39	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
4-Nitroaniline	ND	D10	3600	200	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
4-Nitrophenol	ND	D10	3600	440	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Acenaphthene	ND	D10	1800	22	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Acenaphthylene	ND	D10	1800	15	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Acetophenone	ND	D10	1800	94	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Anthracene	ND	D10	1800	47	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Atrazine	ND	D10,N1	1800	82	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Benzaldehyde	ND UJ	D10	1800	200	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Benzo[a]anthracene	**390**	D10,J	1800	32	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Benzo[a]pyrene	**410**	D10,J	1800	44	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Benzo[b]fluoranthene	**510**	D10,J	1800	36	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Benzo[g,h,i]perylene	**310**	D10,J	1800	22	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Benzo[k]fluoranthene	**240**	D10,J	1800	20	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Biphenyl	ND	D10	1800	110	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Bis(2-chloroethoxy)methane	ND	D10	1800	100	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Bis(2-chloroethyl)ether	ND	D10	1800	160	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
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SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Client ID: B-6 (RSI0695-10 - Solid) - cont. **Sampled: 09/18/09 12:30** **Recvd: 09/18/09 18:43**

Semivolatile Organics by GC/MS - cont.

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Bis(2-chloroisopropyl) ether	ND	D10	1800	190	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Bis(2-ethylhexyl) phthalate	ND	D10	1800	590	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Butyl benzyl phthalate	ND	D10	1800	490	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Caprolactam	ND	D10	1800	790	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Carbazole	ND	D10	1800	21	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Chrysene	**430**	D10,J	1800	18	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Dibenz[a,h]anthracene	ND	D10	1800	22	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Dibenzofuran	ND	D10	1800	19	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Diethyl phthalate	ND	D10	1800	55	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Dimethyl phthalate	ND	D10	1800	48	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Di-n-butyl phthalate	ND	D10	1800	630	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Di-n-octyl phthalate	ND	D10	1800	43	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Fluoranthene	**690**	D10,J	1800	27	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Fluorene	ND	D10	1800	42	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Hexachlorobenzene	ND	D10	1800	91	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Hexachlorobutadiene	ND	D10	1800	94	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Hexachlorocyclopentadiene	ND	D10	1800	550	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Hexachloroethane	ND	D10	1800	140	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Indeno[1,2,3-cd]pyrene	**240**	D10,J	1800	51	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Isophorone	ND	D10	1800	92	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Naphthalene	ND	D10	1800	31	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Nitrobenzene	ND	D10	1800	81	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
N-Nitrosodi-n-propylamine	ND	D10	1800	150	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
N-Nitrosodiphenylamine	ND	D10,L	1800	100	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Phenanthrene	**420**	D10,J	1800	38	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Phenol	ND	D10	1800	190	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
Pyrene	**590**	D10,J	1800	12	ug/kg dry	10.0	09/24/09 01:28	JLG	9I18138	8270C
2,4,6-Tribromophenol	*81 %*	*D10*	*Surr Limits: (39-146%)*				*09/24/09 01:28*	*JLG*	*9I18138*	*8270C*
2-Fluorobiphenyl	*93 %*	*D10*	*Surr Limits: (37-120%)*				*09/24/09 01:28*	*JLG*	*9I18138*	*8270C*
2-Fluorophenol	*79 %*	*D10*	*Surr Limits: (18-120%)*				*09/24/09 01:28*	*JLG*	*9I18138*	*8270C*
Nitrobenzene-d5	*81 %*	*D10*	*Surr Limits: (34-132%)*				*09/24/09 01:28*	*JLG*	*9I18138*	*8270C*
Phenol-d5	*86 %*	*D10*	*Surr Limits: (11-120%)*				*09/24/09 01:28*	*JLG*	*9I18138*	*8270C*
p-Terphenyl-d14	*91 %*	*D10*	*Surr Limits: (58-147%)*				*09/24/09 01:28*	*JLG*	*9I18138*	*8270C*

Organochlorine Pesticides by EPA Method 8081A

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
4,4'-DDD [2C]	~~85~~ ND U	QFL, D04	~~9.0~~ 13	1.8	ug/kg dry	5.00	09/30/09 00:31	MAN	9I22040	8081A
4,4'-DDE [2C]	ND	QFL, D04	9.0	2.6	ug/kg dry	5.00	09/30/09 00:31	MAN	9I22040	8081A
4,4'-DDT [2C]	ND	QFL, D04	9.0	2.1	ug/kg dry	5.00	09/30/09 00:31	MAN	9I22040	8081A
Aldrin [2C]	ND	QFL, D04	9.0	0.92	ug/kg dry	5.00	09/30/09 00:31	MAN	9I22040	8081A
alpha-BHC [2C]	ND	QFL, D04	9.0	1.6	ug/kg dry	5.00	09/30/09 00:31	MAN	9I22040	8081A
alpha-Chlordane [2C]	ND	QFL, D04	9.0	4.5	ug/kg dry	5.00	09/30/09 00:31	MAN	9I22040	8081A
beta-BHC [2C]	ND	QFL, D04	9.0	6.5	ug/kg dry	5.00	09/30/09 00:31	MAN	9I22040	8081A
Chlordane [2C]	ND	QFL, D04	90	20	ug/kg dry	5.00	09/30/09 00:31	MAN	9I22040	8081A
delta-BHC [2C]	ND	QFL, D04	9.0	1.2	ug/kg dry	5.00	09/30/09 00:31	MAN	9I22040	8081A
Dieldrin [2C]	**23** NJ	QFL, D04	9.0	2.2	ug/kg dry	5.00	09/30/09 00:31	MAN	9I22040	8081A
Endosulfan I [2C]	ND	QFL, D04	9.0	1.9	ug/kg dry	5.00	09/30/09 00:31	MAN	9I22040	8081A
Endosulfan II [2C]	ND	QFL, D04	9.0	1.6	ug/kg dry	5.00	09/30/09 00:31	MAN	9I22040	8081A

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Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Client ID: B-6 (RSI0695-10 - Solid) - cont. — **Sampled: 09/18/09 12:30** — **Recvd: 09/18/09 18:43**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Organochlorine Pesticides by EPA Method 8081A - cont.										
Endosulfan sulfate [2C]	ND	QFL, D04	9.0	1.7	ug/kg dry	5.00	09/30/09 00:31	MAN	9I22040	8081A
Endrin [2C]	**16** J	QFL, D04	9.0	2.9	ug/kg dry	5.00	09/30/09 00:31	MAN	9I22040	8081A
Endrin aldehyde [2C]	ND	QFL, D04	9.0	2.3	ug/kg dry	5.00	09/30/09 00:31	MAN	9I22040	8081A
Endrin ketone [2C]	ND	QFL, D04	9.0	2.2	ug/kg dry	5.00	09/30/09 00:31	MAN	9I22040	8081A
gamma-BHC (Lindane) [2C]	ND	QFL, D04	9.0	1.6	ug/kg dry	5.00	09/30/09 00:31	MAN	9I22040	8081A
gamma-Chlordane [2C]	ND ~~15~~ U	QFL, D04	~~9.0~~ 9.0	1.2	ug/kg dry	5.00	09/30/09 00:31	MAN	9I22040	8081A
Heptachlor [2C]	ND	QFL, D04	9.0	1.4	ug/kg dry	5.00	09/30/09 00:31	MAN	9I22040	8081A
Heptachlor epoxide [2C]	ND	QFL, D04	9.0	2.3	ug/kg dry	5.00	09/30/09 00:31	MAN	9I22040	8081A
Methoxychlor	ND ~~15~~ U	QFL, D04,N1	~~9.0~~ 15	2.4	ug/kg dry	5.00	09/30/09 00:31	MAN	9I22040	8081A
Toxaphene [2C]	ND	QFL, D04	90	52	ug/kg dry	5.00	09/30/09 00:31	MAN	9I22040	8081A
Decachlorobiphenyl [2C]	*116 %*	*QFL, D04*	*Surr Limits: (42-146%)*				*09/30/09 00:31*	*MAN*	*9I22040*	*8081A*
Tetrachloro-m-xylene [2C]	*97 %*	*QFL, D04*	*Surr Limits: (37-136%)*				*09/30/09 00:31*	*MAN*	*9I22040*	*8081A*
Total Metals by SW 846 Series Methods										
Aluminum	**7670**		10.1	NR	mg/kg dry	1.00	09/25/09 03:41	LMH	9I23026	6010B
Antimony	ND	UJ	15.1	NR	mg/kg dry	1.00	09/24/09 02:02	AMH	9I23026	6010B
Arsenic	**5.4**	J	2.0	NR	mg/kg dry	1.00	09/24/09 02:02	AMH	9I23026	6010B
Barium	**108**		0.503	NR	mg/kg dry	1.00	09/24/09 02:02	AMH	9I23026	6010B
Beryllium	**0.404**		0.201	NR	mg/kg dry	1.00	09/24/09 02:02	AMH	9I23026	6010B
Cadmium	**0.462**		0.201	NR	mg/kg dry	1.00	09/24/09 02:02	AMH	9I23026	6010B
Calcium	**10900**	J	50.3	NR	mg/kg dry	1.00	09/24/09 02:02	AMH	9I23026	6010B
Chromium	**11.0**	J	0.503	NR	mg/kg dry	1.00	09/24/09 02:02	AMH	9I23026	6010B
Cobalt	**4.89**		0.503	NR	mg/kg dry	1.00	09/24/09 02:02	AMH	9I23026	6010B
Copper	**33.2**	J	1.0	NR	mg/kg dry	1.00	09/24/09 02:02	AMH	9I23026	6010B
Iron	**15900**	J B1, B3, B	10.1	NR	mg/kg dry	1.00	09/24/09 02:02	AMH	9I23026	6010B
Lead	**104**	J	1.0	NR	mg/kg dry	1.00	09/24/09 02:02	AMH	9I23026	6010B
Magnesium	**5580**	J	20.1	NR	mg/kg dry	1.00	09/24/09 02:02	AMH	9I23026	6010B
Manganese	**473**	J B1, B	0.2	NR	mg/kg dry	1.00	09/24/09 02:02	AMH	9I23026	6010B
Nickel	**11.7**	J	5.03	NR	mg/kg dry	1.00	09/24/09 02:02	AMH	9I23026	6010B
Potassium	**1130**		30.2	NR	mg/kg dry	1.00	09/24/09 02:02	AMH	9I23026	6010B
Selenium	ND	UJ	4.0	NR	mg/kg dry	1.00	09/24/09 02:02	AMH	9I23026	6010B
Silver	ND		0.503	NR	mg/kg dry	1.00	09/24/09 02:02	AMH	9I23026	6010B
Sodium	ND		141	NR	mg/kg dry	1.00	09/24/09 02:02	AMH	9I23026	6010B
Thallium	ND		6.0	NR	mg/kg dry	1.00	09/24/09 02:02	AMH	9I23026	6010B
Vanadium	**17.0**	J	0.503	NR	mg/kg dry	1.00	09/24/09 02:02	AMH	9I23026	6010B
Zinc	**113**	J	2.0	NR	mg/kg dry	1.00	09/24/09 02:02	AMH	9I23026	6010B
Mercury	**0.167**		0.0223	NR	mg/kg dry	1.00	09/25/09 14:45	MXM	9I24107	7471A
General Chemistry Parameters										
Percent Solids	**91**		0.010	NR	%	1.00	09/20/09 16:30	KMB	9I19015	Dry Weight
Cyanide	ND	UJ	1.0	0.9	mg/kg dry	1.00	09/23/09 09:51	jmm	9I23015	9012A

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: B-8 (0-2) (RSI0741-10 - Solid)						**Sampled: 09/21/09 10:20**		**Recvd: 09/21/09 14:26**		
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016 [2C]	ND	D08	36	7.1	ug/kg dry	2.00	09/23/09 14:32	SCH	9I22042	8082
Aroclor 1221 [2C]	ND	D08	36	7.1	ug/kg dry	2.00	09/23/09 14:32	SCH	9I22042	8082
Aroclor 1232 [2C]	ND	D08	36	7.1	ug/kg dry	2.00	09/23/09 14:32	SCH	9I22042	8082
Aroclor 1242 [2C]	ND	D08	36	7.9	ug/kg dry	2.00	09/23/09 14:32	SCH	9I22042	8082
Aroclor 1248 [2C]	ND	D08	36	7.1	ug/kg dry	2.00	09/23/09 14:32	SCH	9I22042	8082
Aroclor 1254 [2C]	ND	D08	36	7.6	ug/kg dry	2.00	09/23/09 14:32	SCH	9I22042	8082
Aroclor 1260 [2C]	**250**	D08	36	7.6	ug/kg dry	2.00	09/23/09 14:32	SCH	9I22042	8082
Decachlorobiphenyl [2C]	*88 %*	*D08*	*Surr Limits: (34-148%)*				*09/23/09 14:32*	*SCH*	*9I22042*	*8082*
Tetrachloro-m-xylene [2C]	*78 %*	*D08*	*Surr Limits: (35-134%)*				*09/23/09 14:32*	*SCH*	*9I22042*	*8082*
General Chemistry Parameters										
Percent Solids	**91**		0.010	NR	%	1.00	09/22/09 14:59	CJM	9I22026	Dry Weight

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Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: B-8 (2-4) (RSI0741-11 - Solid)						**Sampled: 09/21/09 10:20**		**Recvd: 09/21/09 14:26**		
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016 [2C]	ND		18	3.5	ug/kg dry	1.00	09/23/09 14:50	SCH	9I22042	8082
Aroclor 1221 [2C]	ND		18	3.5	ug/kg dry	1.00	09/23/09 14:50	SCH	9I22042	8082
Aroclor 1232 [2C]	ND		18	3.5	ug/kg dry	1.00	09/23/09 14:50	SCH	9I22042	8082
Aroclor 1242 [2C]	ND		18	3.9	ug/kg dry	1.00	09/23/09 14:50	SCH	9I22042	8082
Aroclor 1248 [2C]	ND		18	3.5	ug/kg dry	1.00	09/23/09 14:50	SCH	9I22042	8082
Aroclor 1254 [2C]	ND		18	3.8	ug/kg dry	1.00	09/23/09 14:50	SCH	9I22042	8082
Aroclor 1260 [2C]	ND		18	3.8	ug/kg dry	1.00	09/23/09 14:50	SCH	9I22042	8082
Decachlorobiphenyl [2C]	*82 %*		*Surr Limits: (34-148%)*				*09/23/09 14:50*	*SCH*	*9I22042*	*8082*
Tetrachloro-m-xylene [2C]	*84 %*		*Surr Limits: (35-134%)*				*09/23/09 14:50*	*SCH*	*9I22042*	*8082*
General Chemistry Parameters										
Percent Solids	**91**		0.010	NR	%	1.00	09/22/09 15:01	CJM	9I22026	Dry Weight

Golder Associates, Inc. - Niagara Falls, NY
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Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Client ID: B-8 (RSI0741-12 - Solid) — Sampled: 09/21/09 10:30 — Recvd: 09/21/09 14:26

Volatile Organic Compounds by EPA 8260B

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
1,1,1-Trichloroethane	ND		5.5	0.40	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
1,1,2,2-Tetrachloroethane	ND		5.5	0.89	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
1,1,2-Trichloroethane	ND		5.5	0.27	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
1,1,2-Trichlorotrifluoroethane	ND		5.5	0.58	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
1,1-Dichloroethane	ND		5.5	0.27	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
1,1-Dichloroethene	ND		5.5	0.67	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
1,2,4-Trichlorobenzene	ND		5.5	0.33	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
1,2-Dibromo-3-chloropropane	ND		5.5	1.1	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
1,2-Dibromoethane (EDB)	ND		5.5	0.21	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
1,2-Dichlorobenzene	ND		5.5	0.82	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
1,2-Dichloroethane	ND		5.5	0.27	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
1,2-Dichloroethene, Total	ND		11	2.9	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
1,2-Dichloropropane	ND		5.5	0.28	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
1,3-Dichlorobenzene	ND		5.5	0.77	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
1,4-Dichlorobenzene	ND		5.5	0.77	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
2-Butanone (MEK)	ND		27	7.4	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
2-Hexanone	ND		27	1.9	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
4-Methyl-2-pentanone (MIBK)	ND		27	1.8	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
Acetone	ND		27	1.2	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
Benzene	ND		5.5	0.27	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
Bromodichloromethane	ND		5.5	0.28	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
Bromoform	ND		5.5	0.50	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
Bromomethane	ND		5.5	0.50	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
Carbon disulfide	ND		5.5	0.47	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
Carbon Tetrachloride	ND		5.5	0.20	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
Chlorobenzene	ND		5.5	0.24	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
Chlorodibromomethane	ND		5.5	0.30	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
Chloroethane	ND		5.5	0.89	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
Chloroform	ND		5.5	0.34	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
Chloromethane	ND		5.5	0.33	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
cis-1,2-Dichloroethene	ND		5.5	0.27	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
cis-1,3-Dichloropropene	ND		5.5	0.31	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
Cyclohexane	ND		5.5	0.25	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
Dichlorodifluoromethane	ND		5.5	0.45	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
Ethylbenzene	ND		5.5	0.38	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
Isopropylbenzene	ND		5.5	0.36	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
Methyl Acetate	ND		5.5	0.30	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
Methyl tert-Butyl Ether	ND		5.5	0.54	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
Methylcyclohexane	ND		5.5	0.35	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
Methylene Chloride	**28**		5.5	0.38	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
Styrene	ND		5.5	0.27	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
Tetrachloroethene	ND		5.5	0.73	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
Toluene	ND	B	5.5	0.93	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
trans-1,2-Dichloroethene	ND		5.5	0.57	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
trans-1,3-Dichloropropene	ND		5.5	0.27	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
Trichloroethene	ND		5.5	0.38	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B

Golder Associates, Inc. - Niagara Falls, NY
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SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Client ID: B-8 (RSI0741-12 - Solid) - cont. **Sampled: 09/21/09 10:30** **Recvd: 09/21/09 14:26**

Volatile Organic Compounds by EPA 8260B - cont.

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Trichlorofluoromethane	ND		5.5	1.7	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
Vinyl acetate	ND		27	1.1	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
Vinyl chloride	ND		11	0.22	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
Xylenes, total	ND		11	0.92	ug/kg dry	1.00	09/26/09 17:05	PQ	9I26039	8260B
1,2-Dichloroethane-d4	*106 %*		*Surr Limits: (64-126%)*				*09/26/09 17:05*	*PQ*	*9I26039*	*8260B*
4-Bromofluorobenzene	*107 %*		*Surr Limits: (72-126%)*				*09/26/09 17:05*	*PQ*	*9I26039*	*8260B*
Toluene-d8	*113 %*		*Surr Limits: (71-125%)*				*09/26/09 17:05*	*PQ*	*9I26039*	*8260B*

Semivolatile Organics by GC/MS

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
2,4,5-Trichlorophenol	ND	D10	930	200	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
2,4,6-Trichlorophenol	ND	D10	930	61	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
2,4-Dichlorophenol	ND	D10	930	48	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
2,4-Dimethylphenol	ND	D10	930	250	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
2,4-Dinitrophenol	ND	D10	1800	320	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
2,4-Dinitrotoluene	ND	D10	930	140	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
2,6-Dinitrotoluene	ND	D10	930	230	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
2-Chloronaphthalene	ND	D10	930	62	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
2-Chlorophenol	ND	D10	930	47	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
2-Methylnaphthalene	**170**	D10,J	930	11	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
2-Methylphenol	ND	D10	930	28	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
2-Nitroaniline	ND	D10	1800	300	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
2-Nitrophenol	ND	D10	930	42	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
3 & 4 Methylphenol	ND	D10	1800	51	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
3,3'-Dichlorobenzidine	ND	D10	930	810	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
3-Nitroaniline	ND	D10	1800	210	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
4,6-Dinitro-2-methylphenol	ND	D10	1800	320	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
4-Bromophenyl phenyl ether	ND	D10	930	290	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
4-Chloro-3-methylphenol	ND	D10	930	38	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
4-Chloroaniline	ND	D10	930	270	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
4-Chlorophenyl phenyl ether	ND	D10	930	20	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
4-Nitroaniline	ND	D10	1800	100	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
4-Nitrophenol	ND	D10	1800	220	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Acenaphthene	ND	D10	930	11	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Acenaphthylene	**100**	D10,J	930	7.5	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Acetophenone	ND	D10	930	47	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Anthracene	**87**	D10,J	930	24	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Atrazine	ND UJ	D10	930	41	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Benzaldehyde	ND	D10	930	100	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Benzo[a]anthracene	**570**	D10,J	930	16	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Benzo[a]pyrene	**680** J	D10,L, J	930	22	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Benzo[b]fluoranthene	**890**	D10,J	930	18	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Benzo[g,h,i]perylene	**620**	D10,J	930	11	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Benzo[k]fluoranthene	**310**	D10,J	930	10	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Biphenyl	ND	D10	930	57	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Bis(2-chloroethoxy)methane	ND	D10	930	50	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Bis(2-chloroethyl)ether	ND	D10	930	79	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: B-8 (RSI0741-12 - Solid) - cont.						**Sampled: 09/21/09 10:30**		**Recvd: 09/21/09 14:26**		
Semivolatile Organics by GC/MS - cont.										
Bis(2-chloroisopropyl) ether	ND	D10	930	96	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Bis(2-ethylhexyl) phthalate	**420**	D10,J	930	300	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Butyl benzyl phthalate	ND	D10	930	250	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Caprolactam	ND	D10	930	400	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Carbazole	ND	D10	930	11	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Chrysene	**670**	D10,J	930	9.2	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Dibenz[a,h]anthracene	**150**	D10,J	930	11	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Dibenzofuran	**55**	D10,J	930	9.6	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Diethyl phthalate	ND	D10	930	28	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Dimethyl phthalate	ND	D10	930	24	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Di-n-butyl phthalate	ND	D10	930	320	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Di-n-octyl phthalate	ND	D10	930	22	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Fluoranthene	**1200**	D10	930	13	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Fluorene	ND	D10	930	21	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Hexachlorobenzene	ND	D10	930	46	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Hexachlorobutadiene	ND	D10	930	47	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Hexachlorocyclopentadiene	ND	D10	930	280	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Hexachloroethane	ND	D10	930	71	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Indeno[1,2,3-cd]pyrene	**490**	D10,J	930	25	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Isophorone	ND	D10	930	46	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Naphthalene	**120**	D10,J	930	15	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Nitrobenzene	ND	D10	930	41	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
N-Nitrosodi-n-propylamine	ND	D10	930	73	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
N-Nitrosodiphenylamine	ND	D10,L	930	50	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Phenanthrene	**630**	D10,J	930	19	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Phenol	ND	D10	930	97	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
Pyrene	**960**	D10	930	6.0	ug/kg dry	5.00	09/26/09 17:01	ERK	9I22039	8270C
2,4,6-Tribromophenol	*57 %*	*D10*	*Surr Limits: (39-146%)*				*09/26/09 17:01*	*ERK*	*9I22039*	*8270C*
2-Fluorobiphenyl	*70 %*	*D10*	*Surr Limits: (37-120%)*				*09/26/09 17:01*	*ERK*	*9I22039*	*8270C*
2-Fluorophenol	*54 %*	*D10*	*Surr Limits: (18-120%)*				*09/26/09 17:01*	*ERK*	*9I22039*	*8270C*
Nitrobenzene-d5	*62 %*	*D10*	*Surr Limits: (34-132%)*				*09/26/09 17:01*	*ERK*	*9I22039*	*8270C*
Phenol-d5	*63 %*	*D10*	*Surr Limits: (11-120%)*				*09/26/09 17:01*	*ERK*	*9I22039*	*8270C*
p-Terphenyl-d14	*68 %*	*D10*	*Surr Limits: (58-147%)*				*09/26/09 17:01*	*ERK*	*9I22039*	*8270C*
Organochlorine Pesticides by EPA Method 8081A										
4,4'-DDD [2C]	**2.8**	QFL, D04,J	9.0	1.8	ug/kg dry	5.00	09/30/09 04:07	MAN	9I22040	8081A
4,4'-DDE [2C]	ND	QFL, D04	9.0	2.6	ug/kg dry	5.00	09/30/09 04:07	MAN	9I22040	8081A
4,4'-DDT [2C]	ND	QFL, D04	9.0	2.1	ug/kg dry	5.00	09/30/09 04:07	MAN	9I22040	8081A
Aldrin [2C]	ND	QFL, D04	9.0	0.92	ug/kg dry	5.00	09/30/09 04:07	MAN	9I22040	8081A
alpha-BHC [2C]	ND 4.2 U	QFL, D04,J	9.0	1.6	ug/kg dry	5.00	09/30/09 04:07	MAN	9I22040	8081A
alpha-Chlordane [2C]	ND	QFL, D04	9.0	4.5	ug/kg dry	5.00	09/30/09 04:07	MAN	9I22040	8081A
beta-BHC [2C]	ND	QFL, D04	9.0	6.5	ug/kg dry	5.00	09/30/09 04:07	MAN	9I22040	8081A
Chlordane [2C]	ND	QFL, D04	90	20	ug/kg dry	5.00	09/30/09 04:07	MAN	9I22040	8081A
delta-BHC [2C]	ND	QFL, D04	9.0	1.2	ug/kg dry	5.00	09/30/09 04:07	MAN	9I22040	8081A
Dieldrin [2C]	**3.2** J	QFL, D04,J	9.0	2.2	ug/kg dry	5.00	09/30/09 04:07	MAN	9I22040	8081A
Endosulfan I [2C]	ND	QFL, D04	9.0	1.9	ug/kg dry	5.00	09/30/09 04:07	MAN	9I22040	8081A
Endosulfan II [2C]	ND	QFL, D04	9.0	1.6	ug/kg dry	5.00	09/30/09 04:07	MAN	9I22040	8081A

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SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Client ID: B-8 (RSI0741-12 - Solid) - cont. **Sampled: 09/21/09 10:30** **Recvd: 09/21/09 14:26**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Organochlorine Pesticides by EPA Method 8081A - cont.										
Endosulfan sulfate [2C]	ND	QFL, D04	9.0	1.7	ug/kg dry	5.00	09/30/09 04:07	MAN	9I22040	8081A
Endrin [2C]	**3.4**	QFL, D04,J	9.0	2.9	ug/kg dry	5.00	09/30/09 04:07	MAN	9I22040	8081A
Endrin aldehyde [2C]	ND	QFL, D04	9.0	2.3	ug/kg dry	5.00	09/30/09 04:07	MAN	9I22040	8081A
Endrin ketone [2C]	ND	QFL, D04	9.0	2.2	ug/kg dry	5.00	09/30/09 04:07	MAN	9I22040	8081A
gamma-BHC (Lindane) [2C]	ND	QFL, D04	9.0	1.6	ug/kg dry	5.00	09/30/09 04:07	MAN	9I22040	8081A
gamma-Chlordane [2C]	**1.3**	QFL, D04,J	9.0	1.2	ug/kg dry	5.00	09/30/09 04:07	MAN	9I22040	8081A
Heptachlor [2C]	**1.6**	QFL, D04,J	9.0	1.4	ug/kg dry	5.00	09/30/09 04:07	MAN	9I22040	8081A
Heptachlor epoxide [2C]	ND	QFL, D04	9.0	2.3	ug/kg dry	5.00	09/30/09 04:07	MAN	9I22040	8081A
Methoxychlor [2C]	ND	QFL, D04	9.0	2.4	ug/kg dry	5.00	09/30/09 04:07	MAN	9I22040	8081A
Toxaphene [2C]	ND	QFL, D04	90	52	ug/kg dry	5.00	09/30/09 04:07	MAN	9I22040	8081A
Decachlorobiphenyl [2C]	*163 %*	*QFL, D04,Z5*	*Surr Limits: (42-146%)*				*09/30/09 04:07*	*MAN*	*9I22040*	*8081A*
Tetrachloro-m-xylene [2C]	*89 %*	*QFL, D04*	*Surr Limits: (37-136%)*				*09/30/09 04:07*	*MAN*	*9I22040*	*8081A*
Total Metals by SW 846 Series Methods										
Aluminum	**5950**		11.5	NR	mg/kg dry	1.00	09/25/09 04:01	LMH	9I23026	6010B
Antimony	ND		17.2	NR	mg/kg dry	1.00	09/24/09 02:21	AMH	9I23026	6010B
Arsenic	**9.7**		2.3	NR	mg/kg dry	1.00	09/24/09 02:21	AMH	9I23026	6010B
Barium	**102**		0.574	NR	mg/kg dry	1.00	09/24/09 02:21	AMH	9I23026	6010B
Beryllium	**0.369**		0.229	NR	mg/kg dry	1.00	09/24/09 02:21	AMH	9I23026	6010B
Cadmium	**1.63**		0.229	NR	mg/kg dry	1.00	09/24/09 02:21	AMH	9I23026	6010B
Calcium	**4630**		57.4	NR	mg/kg dry	1.00	09/24/09 02:21	AMH	9I23026	6010B
Chromium	**18.6**		0.574	NR	mg/kg dry	1.00	09/24/09 02:21	AMH	9I23026	6010B
Cobalt	**7.76**		0.574	NR	mg/kg dry	1.00	09/24/09 02:21	AMH	9I23026	6010B
Copper	**124**		1.1	NR	mg/kg dry	1.00	09/24/09 02:21	AMH	9I23026	6010B
Iron	**66600**	D08, B	57.4	NR	mg/kg dry	5.00	09/26/09 10:41	LMH	9I23026	6010B
Lead	**322**		1.1	NR	mg/kg dry	1.00	09/24/09 02:21	AMH	9I23026	6010B
Magnesium	**2280**		22.9	NR	mg/kg dry	1.00	09/24/09 02:21	AMH	9I23026	6010B
Manganese	**521**	B1, B	0.2	NR	mg/kg dry	1.00	09/24/09 02:21	AMH	9I23026	6010B
Nickel	**25.0**		5.74	NR	mg/kg dry	1.00	09/24/09 02:21	AMH	9I23026	6010B
Potassium	**783**		34.4	NR	mg/kg dry	1.00	09/24/09 02:21	AMH	9I23026	6010B
Selenium	ND		4.6	NR	mg/kg dry	1.00	09/24/09 02:21	AMH	9I23026	6010B
Silver	ND		0.574	NR	mg/kg dry	1.00	09/24/09 02:21	AMH	9I23026	6010B
Sodium	ND		161	NR	mg/kg dry	1.00	09/24/09 02:21	AMH	9I23026	6010B
Thallium	ND		6.9	NR	mg/kg dry	1.00	09/24/09 02:21	AMH	9I23026	6010B
Vanadium	**16.0**		0.574	NR	mg/kg dry	1.00	09/24/09 02:21	AMH	9I23026	6010B
Zinc	**635**		2.3	NR	mg/kg dry	1.00	09/24/09 02:21	AMH	9I23026	6010B
Mercury	**1.02**	D08	0.102	NR	mg/kg dry	5.00	09/29/09 17:58	MXM	9I25041	7471A
General Chemistry Parameters										
Percent Solids	**91**		0.010	NR	%	1.00	09/22/09 15:03	CJM	9I22026	Dry Weight
Cyanide	ND		1.1	0.9	mg/kg dry	1.00	09/24/09 08:10	jmm	9I23064	9012A

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SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: B-9 (0-2) (RSI0741-13 - Solid)						**Sampled: 09/21/09 10:50**		**Recvd: 09/21/09 14:26**		
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016 [2C]	ND	D08	950	180	ug/kg dry	50.0	09/23/09 15:09	SCH	9I22042	8082
Aroclor 1221 [2C]	ND	D08	950	180	ug/kg dry	50.0	09/23/09 15:09	SCH	9I22042	8082
Aroclor 1232 [2C]	ND	D08	950	180	ug/kg dry	50.0	09/23/09 15:09	SCH	9I22042	8082
Aroclor 1242 [2C]	ND	D08	950	210	ug/kg dry	50.0	09/23/09 15:09	SCH	9I22042	8082
Aroclor 1248 [2C]	ND	D08	950	190	ug/kg dry	50.0	09/23/09 15:09	SCH	9I22042	8082
Aroclor 1254 [2C]	ND	D08	950	200	ug/kg dry	50.0	09/23/09 15:09	SCH	9I22042	8082
Aroclor 1260 [2C]	**22000**	D08	950	200	ug/kg dry	50.0	09/23/09 15:09	SCH	9I22042	8082
Decachlorobiphenyl [2C]	*	*D08,Z3*	*Surr Limits: (34-148%)*				*09/23/09 15:09*	*SCH*	*9I22042*	*8082*
Tetrachloro-m-xylene [2C]	*	*D08,Z3*	*Surr Limits: (35-134%)*				*09/23/09 15:09*	*SCH*	*9I22042*	*8082*
General Chemistry Parameters										
Percent Solids	**88**		0.010	NR	%	1.00	09/22/09 15:05	CJM	9I22026	Dry Weight

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SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: B-9 (2-4) (RSI0741-14 - Solid)						**Sampled: 09/21/09 10:50**		**Recvd: 09/21/09 14:26**		
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016 [2C]	ND		18	3.6	ug/kg dry	1.00	09/23/09 15:27	SCH	9I22042	8082
Aroclor 1221 [2C]	ND		18	3.6	ug/kg dry	1.00	09/23/09 15:27	SCH	9I22042	8082
Aroclor 1232 [2C]	ND		18	3.6	ug/kg dry	1.00	09/23/09 15:27	SCH	9I22042	8082
Aroclor 1242 [2C]	ND		18	4.0	ug/kg dry	1.00	09/23/09 15:27	SCH	9I22042	8082
Aroclor 1248 [2C]	ND		18	3.6	ug/kg dry	1.00	09/23/09 15:27	SCH	9I22042	8082
Aroclor 1254 [2C]	ND		18	3.9	ug/kg dry	1.00	09/23/09 15:27	SCH	9I22042	8082
Aroclor 1260 [2C]	**220**		18	3.9	ug/kg dry	1.00	09/23/09 15:27	SCH	9I22042	8082
Decachlorobiphenyl [2C]	*87 %*		*Surr Limits: (34-148%)*				*09/23/09 15:27*	*SCH*	*9I22042*	*8082*
Tetrachloro-m-xylene [2C]	*89 %*		*Surr Limits: (35-134%)*				*09/23/09 15:27*	*SCH*	*9I22042*	*8082*
General Chemistry Parameters										
Percent Solids	**90**		0.010	NR	%	1.00	09/22/09 15:07	CJM	9I22026	Dry Weight

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SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Client ID: B-9 (RSI0643-02 - Solid) — **Sampled: 09/17/09 11:50** — **Recvd: 09/17/09 16:47**

Volatile Organic Compounds by EPA 8260B

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
1,1,1-Trichloroethane	ND		5.1	0.37	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
1,1,2,2-Tetrachloroethane	ND		5.1	0.83	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
1,1,2-Trichloroethane	ND		5.1	0.26	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
1,1,2-Trichlorotrifluoroethane	ND		5.1	0.54	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
1,1-Dichloroethane	ND		5.1	0.25	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
1,1-Dichloroethene	ND		5.1	0.62	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
1,2,4-Trichlorobenzene	ND		5.1	0.31	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
1,2-Dibromo-3-chloropropane	ND		5.1	1.0	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
1,2-Dibromoethane (EDB)	ND		5.1	0.19	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
1,2-Dichlorobenzene	ND		5.1	0.77	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
1,2-Dichloroethane	ND		5.1	0.26	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
1,2-Dichloroethene, Total	ND		10	2.7	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
1,2-Dichloropropane	ND		5.1	0.26	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
1,3-Dichlorobenzene	ND		5.1	0.72	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
1,4-Dichlorobenzene	ND		5.1	0.71	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
2-Butanone (MEK)	ND		25	6.9	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
2-Hexanone	ND		25	1.8	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
4-Methyl-2-pentanone (MIBK)	ND		25	1.7	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
Acetone	**5.4**	J	25	1.1	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
Benzene	ND		5.1	0.25	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
Bromodichloromethane	ND		5.1	0.26	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
Bromoform	ND		5.1	0.47	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
Bromomethane	ND		5.1	0.47	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
Carbon disulfide	ND		5.1	0.44	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
Carbon Tetrachloride	ND		5.1	0.18	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
Chlorobenzene	ND		5.1	0.22	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
Chlorodibromomethane	ND		5.1	0.28	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
Chloroethane	ND	L	5.1	0.83	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
Chloroform	ND		5.1	0.32	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
Chloromethane	ND		5.1	0.31	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
cis-1,2-Dichloroethene	ND		5.1	0.25	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
cis-1,3-Dichloropropene	ND		5.1	0.29	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
Cyclohexane	ND		5.1	0.23	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
Dichlorodifluoromethane	ND		5.1	0.42	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
Ethylbenzene	ND		5.1	0.35	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
Isopropylbenzene	ND		5.1	0.33	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
Methyl Acetate	ND		5.1	0.28	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
Methyl tert-Butyl Ether	ND		5.1	0.50	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
Methylcyclohexane	ND		5.1	0.33	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
Methylene Chloride	~~ND~~ ~~5.6~~	U B	~~5.1~~ 5.6	0.36	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
Styrene	ND		5.1	0.25	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
Tetrachloroethene	ND		5.1	0.68	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
Toluene	ND		5.1	0.86	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
trans-1,2-Dichloroethene	ND		5.1	0.53	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
trans-1,3-Dichloropropene	ND		5.1	0.25	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
Trichloroethene	ND		5.1	0.35	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B

Golder Associates, Inc. - Niagara Falls, NY
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SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Client ID: B-9 (RSI0643-02 - Solid) - cont. **Sampled: 09/17/09 11:50** **Recvd: 09/17/09 16:47**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Volatile Organic Compounds by EPA 8260B - cont.										
Trichlorofluoromethane	ND		5.1	1.6	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
Vinyl acetate	ND		25	1.1	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
Vinyl chloride	ND		10	0.21	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
Xylenes, total	ND		10	0.86	ug/kg dry	1.00	09/23/09 20:45	PQ	9I23060	8260B
1,2-Dichloroethane-d4	*105 %*		*Surr Limits: (64-126%)*				*09/23/09 20:45*	*PQ*	*9I23060*	*8260B*
4-Bromofluorobenzene	*107 %*		*Surr Limits: (72-126%)*				*09/23/09 20:45*	*PQ*	*9I23060*	*8260B*
Toluene-d8	*117 %*		*Surr Limits: (71-125%)*				*09/23/09 20:45*	*PQ*	*9I23060*	*8260B*
Semivolatile Organics by GC/MS										
2,4,5-Trichlorophenol	ND	D10	1800	390	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
2,4,6-Trichlorophenol	ND	D10	1800	120	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
2,4-Dichlorophenol	ND	D10	1800	94	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
2,4-Dimethylphenol	ND	D10	1800	480	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
2,4-Dinitrophenol	ND	D10	3500	630	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
2,4-Dinitrotoluene	ND	D10	1800	280	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
2,6-Dinitrotoluene	ND	D10	1800	440	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
2-Chloronaphthalene	ND	D10	1800	120	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
2-Chlorophenol	ND	D10	1800	91	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
2-Methylnaphthalene	ND	D10	1800	22	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
2-Methylphenol	ND	D10	1800	55	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
2-Nitroaniline	ND	D10	3500	580	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
2-Nitrophenol	ND	D10	1800	82	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
3 & 4 Methylphenol	ND	D10	3500	100	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
3,3'-Dichlorobenzidine	ND	D10	1800	1600	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
3-Nitroaniline	ND	D10	3500	410	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
4,6-Dinitro-2-methylphenol	ND	D10	3500	620	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
4-Bromophenyl phenyl ether	ND	D10	1800	570	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
4-Chloro-3-methylphenol	ND	D10	1800	74	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
4-Chloroaniline	ND	D10	1800	530	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
4-Chlorophenyl phenyl ether	ND	D10	1800	38	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
4-Nitroaniline	ND	D10	3500	200	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
4-Nitrophenol	ND	D10	3500	430	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Acenaphthene	ND	D10	1800	21	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Acenaphthylene	ND	D10	1800	15	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Acetophenone	ND	D10	1800	92	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Anthracene	**120**	D10,J	1800	46	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Atrazine	ND	D10,N1	1800	80	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Benzaldehyde	ND UJ	D10	1800	200	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Benzo[a]anthracene	**530**	D10,J	1800	31	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Benzo[a]pyrene	**620**	D10,J	1800	43	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Benzo[b]fluoranthene	**800**	D10,J	1800	35	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Benzo[g,h,i]perylene	**510**	D10,J	1800	22	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Benzo[k]fluoranthene	**400**	D10,J	1800	20	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Biphenyl	ND	D10	1800	110	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Bis(2-chloroethoxy)methane	ND	D10	1800	98	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Bis(2-chloroethyl)ether	ND	D10	1800	150	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C

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Reported: 10/05/09 15:28

Analytical Report

Client ID: B-9 (RSI0643-02 - Solid) - cont. **Sampled: 09/17/09 11:50** **Recvd: 09/17/09 16:47**

Semivolatile Organics by GC/MS - cont.

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Bis(2-chloroisopropyl) ether	ND	D10	1800	190	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Bis(2-ethylhexyl) phthalate	**1100**	D10,J	1800	580	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Butyl benzyl phthalate	ND	D10	1800	480	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Caprolactam	ND	D10	1800	780	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Carbazole	ND	D10	1800	21	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Chrysene	**620**	D10,J	1800	18	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Dibenz[a,h]anthracene	**150**	D10,J	1800	21	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Dibenzofuran	ND	D10	1800	19	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Diethyl phthalate	ND	D10	1800	54	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Dimethyl phthalate	ND	D10	1800	47	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Di-n-butyl phthalate	ND	D10	1800	620	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Di-n-octyl phthalate	ND	D10	1800	42	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Fluoranthene	**1100**	D10,J	1800	26	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Fluorene	ND	D10	1800	41	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Hexachlorobenzene	ND	D10	1800	89	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Hexachlorobutadiene	ND	D10	1800	92	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Hexachlorocyclopentadiene	ND	D10	1800	540	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Hexachloroethane	ND	D10	1800	140	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Indeno[1,2,3-cd]pyrene	**380**	D10,J	1800	50	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Isophorone	ND	D10	1800	90	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Naphthalene	ND	D10	1800	30	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Nitrobenzene	ND	D10	1800	79	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
N-Nitrosodi-n-propylamine	ND	D10	1800	140	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
N-Nitrosodiphenylamine	ND	D10,L	1800	98	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Phenanthrene	**720**	D10,J	1800	38	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Phenol	ND	D10	1800	190	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
Pyrene	**930**	D10,J	1800	12	ug/kg dry	10.0	09/23/09 20:25	JLG	9I18138	8270C
2,4,6-Tribromophenol	*81 %*	*D10*	*Surr Limits: (39-146%)*				*09/23/09 20:25*	*JLG*	*9I18138*	*8270C*
2-Fluorobiphenyl	*90 %*	*D10*	*Surr Limits: (37-120%)*				*09/23/09 20:25*	*JLG*	*9I18138*	*8270C*
2-Fluorophenol	*72 %*	*D10*	*Surr Limits: (18-120%)*				*09/23/09 20:25*	*JLG*	*9I18138*	*8270C*
Nitrobenzene-d5	*77 %*	*D10*	*Surr Limits: (34-132%)*				*09/23/09 20:25*	*JLG*	*9I18138*	*8270C*
Phenol-d5	*82 %*	*D10*	*Surr Limits: (11-120%)*				*09/23/09 20:25*	*JLG*	*9I18138*	*8270C*
p-Terphenyl-d14	*92 %*	*D10*	*Surr Limits: (58-147%)*				*09/23/09 20:25*	*JLG*	*9I18138*	*8270C*

Organochlorine Pesticides by EPA Method 8081A

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
4,4'-DDD	~~13~~ 5.6	QFL	~~3.6~~ ~~13~~ 5.6	0.70	ug/kg dry	2.00	09/28/09 22:20	MAN	9I20007	8081A
4,4'-DDE	~~8.8~~ 8.8	QFL	~~3.6~~ 8.8	1.0	ug/kg dry	2.00	09/28/09 22:20	MAN	9I20007	8081A
4,4'-DDT	ND	QFL	3.6	0.82	ug/kg dry	2.00	09/28/09 22:20	MAN	9I20007	8081A
Aldrin	ND	QFL	3.6	0.37	ug/kg dry	2.00	09/28/09 22:20	MAN	9I20007	8081A
alpha-BHC	ND	QFL	3.6	0.65	ug/kg dry	2.00	09/28/09 22:20	MAN	9I20007	8081A
alpha-Chlordane	ND	QFL	3.6	1.8	ug/kg dry	2.00	09/28/09 22:20	MAN	9I20007	8081A
beta-BHC	ND	QFL	3.6	2.6	ug/kg dry	2.00	09/28/09 22:20	MAN	9I20007	8081A
Chlordane	ND	QFL	36	8.0	ug/kg dry	2.00	09/28/09 22:20	MAN	9I20007	8081A
delta-BHC	**1.5**	QFL,J	3.6	0.47	ug/kg dry	2.00	09/28/09 22:20	MAN	9I20007	8081A
Dieldrin	**8.6**	QFL	3.6	0.86	ug/kg dry	2.00	09/28/09 22:20	MAN	9I20007	8081A
Endosulfan I	ND	QFL	3.6	0.76	ug/kg dry	2.00	09/28/09 22:20	MAN	9I20007	8081A
Endosulfan II	ND	QFL	3.6	0.65	ug/kg dry	2.00	09/28/09 22:20	MAN	9I20007	8081A

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Analytical Report

Client ID: B-9 (RSI0643-02 - Solid) - cont. **Sampled: 09/17/09 11:50** **Recvd: 09/17/09 16:47**

Organochlorine Pesticides by EPA Method 8081A - cont.

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Endosulfan sulfate	ND	QFL	3.6	0.67	ug/kg dry	2.00	09/28/09 22:20	MAN	9I20007	8081A
Endrin	ND 4.4 U	QFL	3.6 4.4	1.2	ug/kg dry	2.00	09/28/09 22:20	MAN	9I20007	8081A
Endrin aldehyde	ND	QFL	3.6	0.92	ug/kg dry	2.00	09/28/09 22:20	MAN	9I20007	8081A
Endrin ketone	ND	QFL	3.6	0.88	ug/kg dry	2.00	09/28/09 22:20	MAN	9I20007	8081A
gamma-BHC (Lindane)	ND	QFL	3.6	0.62	ug/kg dry	2.00	09/28/09 22:20	MAN	9I20007	8081A
gamma-Chlordane	**2.3** J	QFL,J	3.6	0.49	ug/kg dry	2.00	09/28/09 22:20	MAN	9I20007	8081A
Heptachlor	ND	QFL	3.6	0.56	ug/kg dry	2.00	09/28/09 22:20	MAN	9I20007	8081A
Heptachlor epoxide	**1.8** J	QFL,J	3.6	0.93	ug/kg dry	2.00	09/28/09 22:20	MAN	9I20007	8081A
Methoxychlor	ND	QFL	3.6	0.96	ug/kg dry	2.00	09/28/09 22:20	MAN	9I20007	8081A
Toxaphene	ND	QFL	36	21	ug/kg dry	2.00	09/28/09 22:20	MAN	9I20007	8081A
Decachlorobiphenyl	*156 %*	*QFL,Z1*	*Surr Limits: (42-146%)*				*09/28/09 22:20*	*MAN*	*9I20007*	*8081A*
Tetrachloro-m-xylene	*95 %*	*QFL*	*Surr Limits: (37-136%)*				*09/28/09 22:20*	*MAN*	*9I20007*	*8081A*

Polychlorinated Biphenyls by EPA Method 8082

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Aroclor 1016	ND	QSU	18	3.5	ug/kg dry	1.00	09/22/09 10:31	SCH	9I20006	8082
Aroclor 1221	ND	QSU	18	3.5	ug/kg dry	1.00	09/22/09 10:31	SCH	9I20006	8082
Aroclor 1232	ND	QSU	18	3.5	ug/kg dry	1.00	09/22/09 10:31	SCH	9I20006	8082
Aroclor 1242	ND	QSU	18	3.9	ug/kg dry	1.00	09/22/09 10:31	SCH	9I20006	8082
Aroclor 1248	ND	QSU	18	3.5	ug/kg dry	1.00	09/22/09 10:31	SCH	9I20006	8082
Aroclor 1254	ND	QSU	18	3.8	ug/kg dry	1.00	09/22/09 10:31	SCH	9I20006	8082
Aroclor 1260	**330** J	QSU	18	3.8	ug/kg dry	1.00	09/22/09 10:31	SCH	9I20006	8082
Decachlorobiphenyl	*122 %*	*QSU*	*Surr Limits: (34-148%)*				*09/22/09 10:31*	*SCH*	*9I20006*	*8082*
Tetrachloro-m-xylene	*87 %*	*QSU*	*Surr Limits: (35-134%)*				*09/22/09 10:31*	*SCH*	*9I20006*	*8082*

Total Metals by SW 846 Series Methods

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Aluminum	**4960**		11.0	NR	mg/kg dry	1.00	09/25/09 02:33	LMH	9I23026	6010B
Antimony	ND UJ		16.5	NR	mg/kg dry	1.00	09/24/09 01:15	AMH	9I23026	6010B
Arsenic	**8.2** J		2.2	NR	mg/kg dry	1.00	09/24/09 01:15	AMH	9I23026	6010B
Barium	**108** J		0.549	NR	mg/kg dry	1.00	09/24/09 01:15	AMH	9I23026	6010B
Beryllium	**0.404**		0.220	NR	mg/kg dry	1.00	09/24/09 01:15	AMH	9I23026	6010B
Cadmium	**1.05**		0.220	NR	mg/kg dry	1.00	09/24/09 01:15	AMH	9I23026	6010B
Calcium	**113000** J	D08	275	NR	mg/kg dry	5.00	09/26/09 10:31	LMH	9I23026	6010B
Chromium	**26.1** J		0.549	NR	mg/kg dry	1.00	09/24/09 01:15	AMH	9I23026	6010B
Cobalt	**4.72** J		0.549	NR	mg/kg dry	1.00	09/24/09 01:15	AMH	9I23026	6010B
Copper	**60.1** J		1.1	NR	mg/kg dry	1.00	09/24/09 01:15	AMH	9I23026	6010B
Iron	**25300** J	B1, B3, B	11.0	NR	mg/kg dry	1.00	09/24/09 01:15	AMH	9I23026	6010B
Lead	**192** J		1.1	NR	mg/kg dry	1.00	09/24/09 01:15	AMH	9I23026	6010B
Magnesium	**5150** J		22.0	NR	mg/kg dry	1.00	09/24/09 01:15	AMH	9I23026	6010B
Manganese	**1080** J	B1, B	0.2	NR	mg/kg dry	1.00	09/24/09 01:15	AMH	9I23026	6010B
Nickel	**17.1** J		5.49	NR	mg/kg dry	1.00	09/24/09 01:15	AMH	9I23026	6010B
Potassium	**674**		32.9	NR	mg/kg dry	1.00	09/24/09 01:15	AMH	9I23026	6010B
Selenium	ND UJ		4.4	NR	mg/kg dry	1.00	09/24/09 01:15	AMH	9I23026	6010B
Silver	ND		0.549	NR	mg/kg dry	1.00	09/24/09 01:15	AMH	9I23026	6010B
Sodium	ND		154	NR	mg/kg dry	1.00	09/24/09 01:15	AMH	9I23026	6010B
Thallium	ND		6.6	NR	mg/kg dry	1.00	09/24/09 01:15	AMH	9I23026	6010B
Vanadium	**16.3** J		0.549	NR	mg/kg dry	1.00	09/24/09 01:15	AMH	9I23026	6010B
Zinc	**475** J		2.2	NR	mg/kg dry	1.00	09/24/09 01:15	AMH	9I23026	6010B
Mercury	**0.976**	D08	0.115	NR	mg/kg dry	5.00	09/25/09 14:55	MXM	9I24107	7471A

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: B-9 (RSI0643-02 - Solid) - cont.						**Sampled: 09/17/09 11:50**		**Recvd: 09/17/09 16:47**		
General Chemistry Parameters										
Percent Solids	**93**		0.010	NR	%	1.00	09/20/09 14:40	KMB	9I19015	Dry Weight
Cyanide	ND	UJ	1.0	0.9	mg/kg dry	1.00	09/23/09 09:46	jmm	9I23015	9012A

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: B-9 (RSI0741-15 - Solid)						**Sampled: 09/21/09 10:55**		**Recvd: 09/21/09 14:26**		
Volatile Organic Compounds by EPA 8260B										
1,1,1-Trichloroethane	ND		5.5	0.40	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
1,1,2,2-Tetrachloroethane	ND		5.5	0.88	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
1,1,2-Trichloroethane	ND		5.5	0.27	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
1,1,2-Trichlorotrifluoroethane	ND		5.5	0.58	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
1,1-Dichloroethane	ND		5.5	0.27	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
1,1-Dichloroethene	ND		5.5	0.67	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
1,2,4-Trichlorobenzene	ND		5.5	0.33	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
1,2-Dibromo-3-chloropropane	ND		5.5	1.1	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
1,2-Dibromoethane (EDB)	ND		5.5	0.21	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
1,2-Dichlorobenzene	ND		5.5	0.82	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
1,2-Dichloroethane	ND		5.5	0.27	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
1,2-Dichloroethene, Total	ND		11	2.9	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
1,2-Dichloropropane	ND		5.5	0.28	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
1,3-Dichlorobenzene	ND		5.5	0.77	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
1,4-Dichlorobenzene	ND		5.5	0.76	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
2-Butanone (MEK)	ND		27	7.4	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
2-Hexanone	ND		27	1.9	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
4-Methyl-2-pentanone (MIBK)	ND		27	1.8	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Acetone	ND		27	1.2	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Benzene	ND		5.5	0.27	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Bromodichloromethane	ND		5.5	0.28	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Bromoform	ND		5.5	0.50	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Bromomethane	ND		5.5	0.50	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Carbon disulfide	ND		5.5	0.47	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Carbon Tetrachloride	ND		5.5	0.20	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Chlorobenzene	**1.8**	B, J	5.5	0.24	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Chlorodibromomethane	ND		5.5	0.30	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Chloroethane	ND		5.5	0.88	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Chloroform	ND		5.5	0.34	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Chloromethane	ND		5.5	0.33	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
cis-1,2-Dichloroethene	ND		5.5	0.27	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
cis-1,3-Dichloropropene	ND		5.5	0.31	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Cyclohexane	ND		5.5	0.25	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Dichlorodifluoromethane	ND		5.5	0.45	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Ethylbenzene	ND		5.5	0.38	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Isopropylbenzene	ND		5.5	0.36	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Methyl Acetate	ND		5.5	0.30	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Methyl tert-Butyl Ether	ND		5.5	0.54	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Methylcyclohexane	ND		5.5	0.35	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Methylene Chloride	**15**		5.5	0.38	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Styrene	ND		5.5	0.27	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Tetrachloroethene	ND		5.5	0.73	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Toluene	ND	B	5.5	0.92	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
trans-1,2-Dichloroethene	ND		5.5	0.56	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
trans-1,3-Dichloropropene	ND		5.5	0.27	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Trichloroethene	ND		5.5	0.38	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 11/30/09 18:14

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: B-7 (0-2) (RSI0741-13 - Solid)						**Sampled: 09/21/09 10:50**		**Recvd: 09/21/09 14:26**		
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016 [2C]	ND	D08	950	180	ug/kg dry	50.0	09/23/09 15:09	SCH	9I22042	8082
Aroclor 1221 [2C]	ND	D08	950	180	ug/kg dry	50.0	09/23/09 15:09	SCH	9I22042	8082
Aroclor 1232 [2C]	ND	D08	950	180	ug/kg dry	50.0	09/23/09 15:09	SCH	9I22042	8082
Aroclor 1242 [2C]	ND	D08	950	210	ug/kg dry	50.0	09/23/09 15:09	SCH	9I22042	8082
Aroclor 1248 [2C]	ND	D08	950	190	ug/kg dry	50.0	09/23/09 15:09	SCH	9I22042	8082
Aroclor 1254 [2C]	ND	D08	950	200	ug/kg dry	50.0	09/23/09 15:09	SCH	9I22042	8082
Aroclor 1260 [2C]	**22000**	D08	950	200	ug/kg dry	50.0	09/23/09 15:09	SCH	9I22042	8082
Decachlorobiphenyl [2C]	*	*D08,Z3*	*Surr Limits: (34-148%)*				*09/23/09 15:09*	*SCH*	*9I22042*	*8082*
Tetrachloro-m-xylene [2C]	*	*D08,Z3*	*Surr Limits: (35-134%)*				*09/23/09 15:09*	*SCH*	*9I22042*	*8082*
General Chemistry Parameters										
Percent Solids	**88**		0.010	NR	%	1.00	09/22/09 15:05	CJM	9I22026	Dry Weight

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 11/30/09 18:14

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: B-7 (2-4) (RSI0741-14 - Solid)						**Sampled: 09/21/09 10:50**		**Recvd: 09/21/09 14:26**		
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016 [2C]	ND		18	3.6	ug/kg dry	1.00	09/23/09 15:27	SCH	9I22042	8082
Aroclor 1221 [2C]	ND		18	3.6	ug/kg dry	1.00	09/23/09 15:27	SCH	9I22042	8082
Aroclor 1232 [2C]	ND		18	3.6	ug/kg dry	1.00	09/23/09 15:27	SCH	9I22042	8082
Aroclor 1242 [2C]	ND		18	4.0	ug/kg dry	1.00	09/23/09 15:27	SCH	9I22042	8082
Aroclor 1248 [2C]	ND		18	3.6	ug/kg dry	1.00	09/23/09 15:27	SCH	9I22042	8082
Aroclor 1254 [2C]	ND		18	3.9	ug/kg dry	1.00	09/23/09 15:27	SCH	9I22042	8082
Aroclor 1260 [2C]	**220**		18	3.9	ug/kg dry	1.00	09/23/09 15:27	SCH	9I22042	8082
Decachlorobiphenyl [2C]	*87 %*		*Surr Limits: (34-148%)*				*09/23/09 15:27*	*SCH*	*9I22042*	*8082*
Tetrachloro-m-xylene [2C]	*89 %*		*Surr Limits: (35-134%)*				*09/23/09 15:27*	*SCH*	*9I22042*	*8082*
General Chemistry Parameters										
Percent Solids	**90**		0.010	NR	%	1.00	09/22/09 15:07	CJM	9I22026	Dry Weight

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 11/30/09 18:14

Analytical Report

Client ID: B-7 (RSI0741-15 - Solid) — **Sampled: 09/21/09 10:55** — **Recvd: 09/21/09 14:26**

Volatile Organic Compounds by EPA 8260B

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
1,1,1-Trichloroethane	ND		5.5	0.40	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
1,1,2,2-Tetrachloroethane	ND		5.5	0.88	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
1,1,2-Trichloroethane	ND		5.5	0.27	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
1,1,2-Trichlorotrifluoroethane	ND		5.5	0.58	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
1,1-Dichloroethane	ND		5.5	0.27	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
1,1-Dichloroethene	ND		5.5	0.67	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
1,2,4-Trichlorobenzene	ND		5.5	0.33	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
1,2-Dibromo-3-chloropropane	ND		5.5	1.1	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
1,2-Dibromoethane (EDB)	ND		5.5	0.21	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
1,2-Dichlorobenzene	ND		5.5	0.82	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
1,2-Dichloroethane	ND		5.5	0.27	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
1,2-Dichloroethene, Total	ND		11	2.9	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
1,2-Dichloropropane	ND		5.5	0.28	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
1,3-Dichlorobenzene	ND		5.5	0.77	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
1,4-Dichlorobenzene	ND		5.5	0.76	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
2-Butanone (MEK)	ND		27	7.4	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
2-Hexanone	ND		27	1.9	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
4-Methyl-2-pentanone (MIBK)	ND		27	1.8	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Acetone	ND		27	1.2	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Benzene	ND		5.5	0.27	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Bromodichloromethane	ND		5.5	0.28	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Bromoform	ND		5.5	0.50	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Bromomethane	ND		5.5	0.50	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Carbon disulfide	ND		5.5	0.47	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Carbon Tetrachloride	ND		5.5	0.20	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Chlorobenzene	~~1.8~~ ND U	B, J	5.5	0.24	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Chlorodibromomethane	ND		5.5	0.30	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Chloroethane	ND		5.5	0.88	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Chloroform	ND		5.5	0.34	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Chloromethane	ND		5.5	0.33	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
cis-1,2-Dichloroethene	ND		5.5	0.27	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
cis-1,3-Dichloropropene	ND		5.5	0.31	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Cyclohexane	ND		5.5	0.25	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Dichlorodifluoromethane	ND		5.5	0.45	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Ethylbenzene	ND		5.5	0.38	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Isopropylbenzene	ND		5.5	0.36	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Methyl Acetate	ND		5.5	0.30	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Methyl tert-Butyl Ether	ND		5.5	0.54	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Methylcyclohexane	ND		5.5	0.35	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Methylene Chloride	15		5.5	0.38	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Styrene	ND		5.5	0.27	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Tetrachloroethene	ND		5.5	0.73	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Toluene	ND	B	5.5	0.92	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
trans-1,2-Dichloroethene	ND		5.5	0.56	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
trans-1,3-Dichloropropene	ND		5.5	0.27	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Trichloroethene	ND		5.5	0.38	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 11/30/09 18:14

Analytical Report

Client ID: B-7 (RSI0741-15 - Solid) - cont. **Sampled: 09/21/09 10:55** **Recvd: 09/21/09 14:26**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Volatile Organic Compounds by EPA 8260B - cont.										
Trichlorofluoromethane	ND		5.5	1.7	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Vinyl acetate	ND		27	1.1	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Vinyl chloride	ND		11	0.22	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
Xylenes, total	ND		11	0.92	ug/kg dry	1.00	09/25/09 03:39	CDC	9I24113	8260B
1,2-Dichloroethane-d4	*105 %*		*Surr Limits: (64-126%)*				*09/25/09 03:39*	*CDC*	*9I24113*	*8260B*
4-Bromofluorobenzene	*106 %*		*Surr Limits: (72-126%)*				*09/25/09 03:39*	*CDC*	*9I24113*	*8260B*
Toluene-d8	*113 %*		*Surr Limits: (71-125%)*				*09/25/09 03:39*	*CDC*	*9I24113*	*8260B*
Semivolatile Organics by GC/MS										
2,4,5-Trichlorophenol	ND	D10	940	200	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
2,4,6-Trichlorophenol	ND	D10	940	62	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
2,4-Dichlorophenol	ND	D10	940	49	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
2,4-Dimethylphenol	ND	D10	940	250	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
2,4-Dinitrophenol	ND	D10	1800	330	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
2,4-Dinitrotoluene	ND	D10	940	140	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
2,6-Dinitrotoluene	ND	D10	940	230	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
2-Chloronaphthalene	ND	D10	940	63	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
2-Chlorophenol	ND	D10	940	48	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
2-Methylnaphthalene	**110**	D10,J	940	11	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
2-Methylphenol	ND	D10	940	29	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
2-Nitroaniline	ND	D10	1800	300	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
2-Nitrophenol	ND	D10	940	43	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
3 & 4 Methylphenol	ND	D10	1800	52	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
3,3'-Dichlorobenzidine	ND	D10	940	820	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
3-Nitroaniline	ND	D10	1800	220	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
4,6-Dinitro-2-methylphenol	ND	D10	1800	320	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
4-Bromophenyl phenyl ether	ND	D10	940	300	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
4-Chloro-3-methylphenol	ND	D10	940	38	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
4-Chloroaniline	ND	D10	940	270	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
4-Chlorophenyl phenyl ether	ND	D10	940	20	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
4-Nitroaniline	ND	D10	1800	100	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
4-Nitrophenol	ND	D10	1800	230	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Acenaphthene	**390**	D10,J	940	11	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Acenaphthylene	ND	D10	940	7.7	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Acetophenone	ND	D10	940	48	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Anthracene	**1100**	D10	940	24	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Atrazine	ND UJ	D10	940	42	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Benzaldehyde	ND	D10	940	100	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Benzo[a]anthracene	**2100**	D10	940	16	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Benzo[a]pyrene	**1900** J	D10,L1	940	23	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Benzo[b]fluoranthene	**2200**	D10	940	18	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Benzo[g,h,i]perylene	**1300**	D10	940	11	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Benzo[k]fluoranthene	**910**	D10,J	940	10	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Biphenyl	ND	D10	940	58	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Bis(2-chloroethoxy)methane	ND	D10	940	51	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Bis(2-chloroethyl)ether	ND	D10	940	81	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 11/30/09 18:14

Analytical Report

Client ID: B-7 (RSI0741-15 - Solid) - cont. **Sampled: 09/21/09 10:55** **Recvd: 09/21/09 14:26**

Semivolatile Organics by GC/MS - cont.

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Bis(2-chloroisopropyl) ether	ND	D10	940	98	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Bis(2-ethylhexyl) phthalate	**500**	D10,J	940	300	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Butyl benzyl phthalate	ND	D10	940	250	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Caprolactam	ND	D10	940	400	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Carbazole	**600**	D10,J	940	11	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Chrysene	**2000**	D10	940	9.4	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Dibenz[a,h]anthracene	**360**	D10,J	940	11	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Dibenzofuran	**330**	D10,J	940	9.7	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Diethyl phthalate	ND	D10	940	28	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Dimethyl phthalate	ND	D10	940	24	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Di-n-butyl phthalate	ND	D10	940	320	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Di-n-octyl phthalate	ND	D10	940	22	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Fluoranthene	**5000**	D10	940	14	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Fluorene	**510**	D10,J	940	22	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Hexachlorobenzene	ND	D10	940	46	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Hexachlorobutadiene	ND	D10	940	48	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Hexachlorocyclopentadiene	ND	D10	940	280	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Hexachloroethane	ND	D10	940	72	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Indeno[1,2,3-cd]pyrene	**1200**	D10	940	26	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Isophorone	ND	D10	940	47	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Naphthalene	ND	D10	940	16	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Nitrobenzene	ND	D10	940	41	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
N-Nitrosodi-n-propylamine	ND	D10	940	74	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
N-Nitrosodiphenylamine	ND	D10,L	940	51	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Phenanthrene	**4700**	D10	940	20	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Phenol	ND	D10	940	98	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
Pyrene	**3900**	D10	940	6.1	ug/kg dry	5.00	09/26/09 17:26	ERK	9I22039	8270C
2,4,6-Tribromophenol	*67 %*	*D10*	*Surr Limits: (39-146%)*				*09/26/09 17:26*	*ERK*	*9I22039*	*8270C*
2-Fluorobiphenyl	*80 %*	*D10*	*Surr Limits: (37-120%)*				*09/26/09 17:26*	*ERK*	*9I22039*	*8270C*
2-Fluorophenol	*61 %*	*D10*	*Surr Limits: (18-120%)*				*09/26/09 17:26*	*ERK*	*9I22039*	*8270C*
Nitrobenzene-d5	*67 %*	*D10*	*Surr Limits: (34-132%)*				*09/26/09 17:26*	*ERK*	*9I22039*	*8270C*
Phenol-d5	*72 %*	*D10*	*Surr Limits: (11-120%)*				*09/26/09 17:26*	*ERK*	*9I22039*	*8270C*
p-Terphenyl-d14	*76 %*	*D10*	*Surr Limits: (58-147%)*				*09/26/09 17:26*	*ERK*	*9I22039*	*8270C*

Organochlorine Pesticides by EPA Method 8081A

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
4,4'-DDD [2C]	ND	QFL, D04	93	18	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
4,4'-DDE [2C]	ND	QFL, D04	93	27	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
4,4'-DDT [2C]	ND	QFL, D04	93	21	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
Aldrin [2C]	ND	QFL, D04	93	9.4	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
alpha-BHC [2C]	ND	QFL, D04	93	17	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
alpha-Chlordane [2C]	ND	QFL, D04	93	46	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
beta-BHC [2C]	ND	QFL, D04	93	67	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
Chlordane [2C]	ND	QFL, D04	930	210	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
delta-BHC [2C]	ND	QFL, D04	93	12	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
Dieldrin [2C]	ND ~~290~~ U	QFL, D04	~~93~~ 290	22	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
Endosulfan I [2C]	ND	QFL, D04	93	20	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
Endosulfan II [2C]	ND ~~1000~~ U	QFL, D04	93	17	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 11/30/09 18:14

Analytical Report

Client ID: B-7 (RSI0741-15 - Solid) - cont. **Sampled: 09/21/09 10:55** **Recvd: 09/21/09 14:26**

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Organochlorine Pesticides by EPA Method 8081A - cont.										
Endosulfan sulfate [2C]	ND	QFL, D04	93	17	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
Endrin [2C]	**210** J	QFL, D04	93	30	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
Endrin aldehyde [2C]	ND	QFL, D04	93	24	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
Endrin ketone [2C]	ND	QFL, D04	93	23	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
gamma-BHC (Lindane) [2C]	ND	QFL, D04	93	16	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
gamma-Chlordane [2C]	ND **240** U	QFL, D04	93	13	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
Heptachlor [2C]	ND	QFL, D04	93	14	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
Heptachlor epoxide [2C]	ND **200** U	QFL, D04	93	24	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
Methoxychlor [2C]	ND	QFL, D04	93	25	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
Toxaphene [2C]	ND	QFL, D04	930	540	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
Decachlorobiphenyl [2C]	*	*QFL, D04,Z3*	*Surr Limits: (42-146%)*				*09/30/09 12:55*	*MAN*	*9I22040*	*8081A*
Tetrachloro-m-xylene [2C]	*	*QFL, D04,Z3*	*Surr Limits: (37-136%)*				*09/30/09 12:55*	*MAN*	*9I22040*	*8081A*
Total Metals by SW 846 Series Methods										
Aluminum	**7680**		11.3	NR	mg/kg dry	1.00	09/25/09 04:06	LMH	9I23026	6010B
Antimony	ND UJ		16.9	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Arsenic	**6.8** J		2.3	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Barium	**107** J		0.563	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Beryllium	**0.449**		0.225	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Cadmium	**1.02**		0.225	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Calcium	**47400** J		56.3	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Chromium	**17.1** J		0.563	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Cobalt	**6.40**		0.563	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Copper	**58.1** J		1.1	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Iron	**33500** J	B1, B3, B	11.3	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Lead	**206** J		1.1	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Magnesium	**6790** J		22.5	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Manganese	**514** J	B1, B	0.2	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Nickel	**22.9** J		5.63	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Potassium	**1060**		33.8	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Selenium	ND UJ		4.5	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Silver	ND		0.563	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Sodium	ND		158	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Thallium	ND		6.8	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Vanadium	**17.4** J		0.563	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Zinc	**348** J		2.3	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Mercury	**0.393**		0.0226	NR	mg/kg dry	1.00	09/29/09 17:16	MXM	9I25041	7471A
General Chemistry Parameters										
Percent Solids	**90**		0.010	NR	%	1.00	09/22/09 15:09	CJM	9I22026	Dry Weight
Cyanide	ND UJ		1.1	0.9	mg/kg dry	1.00	09/24/09 08:11	jmm	9I23064	9012A

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: SS-1 (RSI0695-01 - Solid)						**Sampled: 09/18/09 12:50**		**Recvd: 09/18/09 18:43**		
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016 [2C]	ND		17	3.3	ug/kg dry	1.00	09/23/09 09:00	SCH	9I22042	8082
Aroclor 1221 [2C]	ND		17	3.3	ug/kg dry	1.00	09/23/09 09:00	SCH	9I22042	8082
Aroclor 1232 [2C]	ND		17	3.3	ug/kg dry	1.00	09/23/09 09:00	SCH	9I22042	8082
Aroclor 1242 [2C]	ND		17	3.7	ug/kg dry	1.00	09/23/09 09:00	SCH	9I22042	8082
Aroclor 1248 [2C]	ND		17	3.3	ug/kg dry	1.00	09/23/09 09:00	SCH	9I22042	8082
Aroclor 1254 [2C]	ND		17	3.6	ug/kg dry	1.00	09/23/09 09:00	SCH	9I22042	8082
Aroclor 1260 [2C]	**150**		17	3.6	ug/kg dry	1.00	09/23/09 09:00	SCH	9I22042	8082
Decachlorobiphenyl [2C]	*76 %*		*Surr Limits: (34-148%)*				*09/23/09 09:00*	*SCH*	*9I22042*	*8082*
Tetrachloro-m-xylene [2C]	*82 %*		*Surr Limits: (35-134%)*				*09/23/09 09:00*	*SCH*	*9I22042*	*8082*
General Chemistry Parameters										
Percent Solids	**97**		0.010	NR	%	1.00	09/20/09 16:12	KMB	9I19015	Dry Weight

Golder Associates, Inc. - Niagara Falls, NY
2221 Niagara Falls Blvd., Ste 9
Niagara Falls, NY 14304

SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: B-9 (RSI0741-15 - Solid) - cont.						**Sampled: 09/21/09 10:55**		**Recvd: 09/21/09 14:26**		
Organochlorine Pesticides by EPA Method 8081A - cont.										
Endosulfan sulfate [2C]	ND	QFL, D04	93	17	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
Endrin [2C]	**210**	QFL, D04	93	30	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
Endrin aldehyde [2C]	ND	QFL, D04	93	24	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
Endrin ketone [2C]	ND	QFL, D04	93	23	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
gamma-BHC (Lindane) [2C]	ND	QFL, D04	93	16	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
gamma-Chlordane [2C]	**240**	QFL, D04	93	13	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
Heptachlor [2C]	ND	QFL, D04	93	14	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
Heptachlor epoxide [2C]	**200**	QFL, D04	93	24	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
Methoxychlor [2C]	ND	QFL, D04	93	25	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
Toxaphene [2C]	ND	QFL, D04	930	540	ug/kg dry	50.0	09/30/09 12:55	MAN	9I22040	8081A
Decachlorobiphenyl [2C]	*	*QFL, D04,Z3*	*Surr Limits: (42-146%)*				*09/30/09 12:55*	*MAN*	*9I22040*	*8081A*
Tetrachloro-m-xylene [2C]	*	*QFL, D04,Z3*	*Surr Limits: (37-136%)*				*09/30/09 12:55*	*MAN*	*9I22040*	*8081A*
Total Metals by SW 846 Series Methods										
Aluminum	**7680**		11.3	NR	mg/kg dry	1.00	09/25/09 04:06	LMH	9I23026	6010B
Antimony	ND		16.9	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Arsenic	**6.8**		2.3	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Barium	**107**		0.563	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Beryllium	**0.449**		0.225	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Cadmium	**1.02**		0.225	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Calcium	**47400**		56.3	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Chromium	**17.1**		0.563	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Cobalt	**6.40**		0.563	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Copper	**58.1**		1.1	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Iron	**33500**	B1, B3, B	11.3	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Lead	**206**		1.1	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Magnesium	**6790**		22.5	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Manganese	**514**	B1, B	0.2	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Nickel	**22.9**		5.63	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Potassium	**1060**		33.8	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Selenium	ND		4.5	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Silver	ND		0.563	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Sodium	ND		158	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Thallium	ND		6.8	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Vanadium	**17.4**		0.563	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Zinc	**348**		2.3	NR	mg/kg dry	1.00	09/24/09 02:26	AMH	9I23026	6010B
Mercury	**0.393**		0.0226	NR	mg/kg dry	1.00	09/29/09 17:16	MXM	9I25041	7471A
General Chemistry Parameters										
Percent Solids	**90**		0.010	NR	%	1.00	09/22/09 15:09	CJM	9I22026	Dry Weight
Cyanide	ND		1.1	0.9	mg/kg dry	1.00	09/24/09 08:11	jmm	9I23064	9012A

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SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: SS-2 (RSI0695-02 - Solid)						**Sampled: 09/18/09 10:15**		**Recvd: 09/18/09 18:43**		
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016 [2C]	ND		19	3.7	ug/kg dry	1.00	09/23/09 09:19	SCH	9I22042	8082
Aroclor 1221 [2C]	ND		19	3.7	ug/kg dry	1.00	09/23/09 09:19	SCH	9I22042	8082
Aroclor 1232 [2C]	ND		19	3.7	ug/kg dry	1.00	09/23/09 09:19	SCH	9I22042	8082
Aroclor 1242 [2C]	ND		19	4.1	ug/kg dry	1.00	09/23/09 09:19	SCH	9I22042	8082
Aroclor 1248 [2C]	ND		19	3.7	ug/kg dry	1.00	09/23/09 09:19	SCH	9I22042	8082
Aroclor 1254 [2C]	ND		19	4.0	ug/kg dry	1.00	09/23/09 09:19	SCH	9I22042	8082
Aroclor 1260 [2C]	**250**		19	4.0	ug/kg dry	1.00	09/23/09 09:19	SCH	9I22042	8082
Decachlorobiphenyl [2C]	*74 %*		*Surr Limits: (34-148%)*				*09/23/09 09:19*	*SCH*	*9I22042*	*8082*
Tetrachloro-m-xylene [2C]	*86 %*		*Surr Limits: (35-134%)*				*09/23/09 09:19*	*SCH*	*9I22042*	*8082*
General Chemistry Parameters										
Percent Solids	**88**		0.010	NR	%	1.00	09/20/09 16:14	KMB	9I19015	Dry Weight

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SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: SS-3 (RSI0695-03 - Solid)						**Sampled: 09/18/09 12:15**		**Recvd: 09/18/09 18:43**		
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016 [2C]	ND	D08	170	32	ug/kg dry	10.0	09/23/09 09:37	SCH	9I22042	8082
Aroclor 1221 [2C]	ND	D08	170	32	ug/kg dry	10.0	09/23/09 09:37	SCH	9I22042	8082
Aroclor 1232 [2C]	ND	D08	170	32	ug/kg dry	10.0	09/23/09 09:37	SCH	9I22042	8082
Aroclor 1242 [2C]	ND	D08	170	36	ug/kg dry	10.0	09/23/09 09:37	SCH	9I22042	8082
Aroclor 1248 [2C]	ND	D08	170	33	ug/kg dry	10.0	09/23/09 09:37	SCH	9I22042	8082
Aroclor 1254 [2C]	ND	D08	170	35	ug/kg dry	10.0	09/23/09 09:37	SCH	9I22042	8082
Aroclor 1260 [2C]	**4500**	D08	170	35	ug/kg dry	10.0	09/23/09 09:37	SCH	9I22042	8082
Decachlorobiphenyl [2C]	*98 %*	*D08*	*Surr Limits: (34-148%)*				*09/23/09 09:37*	*SCH*	*9I22042*	*8082*
Tetrachloro-m-xylene [2C]	*87 %*	*D08*	*Surr Limits: (35-134%)*				*09/23/09 09:37*	*SCH*	*9I22042*	*8082*
General Chemistry Parameters										
Percent Solids	**98**		0.010	NR	%	1.00	09/20/09 16:16	KMB	9I19015	Dry Weight

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SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

Analytical Report

Analyte	Sample Result	Data Qualifiers	RL	MDL	Units	Dil Fac	Date Analyzed	Lab Tech	Batch	Method
Client ID: SS-4 (RSI0695-04 - Solid)						**Sampled: 09/18/09 12:00**		**Recvd: 09/18/09 18:43**		
Polychlorinated Biphenyls by EPA Method 8082										
Aroclor 1016 [2C]	ND	D08	84	16	ug/kg dry	5.00	09/23/09 10:32	SCH	9I22042	8082
Aroclor 1221 [2C]	ND	D08	84	16	ug/kg dry	5.00	09/23/09 10:32	SCH	9I22042	8082
Aroclor 1232 [2C]	ND	D08	84	16	ug/kg dry	5.00	09/23/09 10:32	SCH	9I22042	8082
Aroclor 1242 [2C]	ND	D08	84	18	ug/kg dry	5.00	09/23/09 10:32	SCH	9I22042	8082
Aroclor 1248 [2C]	ND	D08	84	16	ug/kg dry	5.00	09/23/09 10:32	SCH	9I22042	8082
Aroclor 1254 [2C]	ND	D08	84	18	ug/kg dry	5.00	09/23/09 10:32	SCH	9I22042	8082
Aroclor 1260 [2C]	**690**	D08	84	18	ug/kg dry	5.00	09/23/09 10:32	SCH	9I22042	8082
Decachlorobiphenyl [2C]	*91 %*	*D08*	*Surr Limits: (34-148%)*				*09/23/09 10:32*	*SCH*	*9I22042*	*8082*
Tetrachloro-m-xylene [2C]	*83 %*	*D08*	*Surr Limits: (35-134%)*				*09/23/09 10:32*	*SCH*	*9I22042*	*8082*
General Chemistry Parameters										
Percent Solids	**99**		0.010	NR	%	1.00	09/20/09 16:18	KMB	9I19015	Dry Weight

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SDG Number: RSI0643

Project: Golder - Niagara Transformer site (Level IV)
Project Number: [none]

Received: 09/17/09-09/21/09
Reported: 10/05/09 15:28

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
General Chemistry Parameters									
9012A	9I23015	RSI0643-01	0.51	g	50.00	mL	09/23/09 03:08	JFR	Cn Digestion
9012A	9I23015	RSI0643-02	0.54	g	50.00	mL	09/23/09 03:08	JFR	Cn Digestion
9012A	9I23015	RSI0643-03	0.58	g	50.00	mL	09/23/09 03:08	JFR	Cn Digestion
Dry Weight	9I19015	RSI0643-01	10.00	g	10.00	g	09/19/09 10:30	CJM	Dry Weight
Dry Weight	9I19015	RSI0643-02	10.00	g	10.00	g	09/19/09 10:30	CJM	Dry Weight
Dry Weight	9I19015	RSI0643-03	10.00	g	10.00	g	09/19/09 10:30	CJM	Dry Weight
Dry Weight	9I19015	RSI0643-06	10.00	g	10.00	g	09/19/09 10:30	CJM	Dry Weight
Organochlorine Pesticides by EPA Method 8081A									
8081A	9I20007	RSI0643-02	30.02	g	10.00	mL	09/21/09 08:00	CXM	3550B GC
8081A	9I20007	RSI0643-03	30.11	g	10.00	mL	09/21/09 08:00	CXM	3550B GC
8081A	9I20007	RSI0643-01	30.48	g	10.00	mL	09/21/09 08:00	CXM	3550B GC
Polychlorinated Biphenyls by EPA Method 8082									
8082	9I20006	RSI0643-02	30.02	g	10.00	mL	09/21/09 08:00	CXM	3550B GC
8082	9I20006	RSI0643-03	30.11	g	10.00	mL	09/21/09 08:00	CXM	3550B GC
8082	9I20006	RSI0643-06	30.32	g	10.00	mL	09/21/09 08:00	CXM	3550B GC
8082	9I20006	RSI0643-01	30.48	g	10.00	mL	09/21/09 08:00	CXM	3550B GC
Semivolatile Organics by GC/MS									
8270C	9I18138	RSI0643-01	30.37	g	1.00	mL	09/18/09 20:00	EKD	3550B MB
8270C	9I18138	RSI0643-02	30.42	g	1.00	mL	09/18/09 20:00	EKD	3550B MB
8270C	9I18138	RSI0643-03	30.85	g	1.00	mL	09/18/09 20:00	EKD	3550B MB
Total Metals by SW 846 Series Methods									
6010B	9I23026	RSI0643-03	0.47	g	50.00	mL	09/23/09 09:20	KCW	3050B
6010B	9I23026	RSI0643-02	0.49	g	50.00	mL	09/23/09 09:20	KCW	3050B
6010B	9I23026	RSI0643-01	0.49	g	50.00	mL	09/23/09 09:20	KCW	3050B
7471A	9I24107	RSI0643-03	0.56	g	50.00	mL	09/24/09 10:00	MLD	7471A_
7471A	9I24107	RSI0643-02	0.56	g	50.00	mL	09/24/09 10:00	MLD	7471A_
7471A	9I24107	RSI0643-01	0.62	g	50.00	mL	09/24/09 10:00	MLD	7471A_
Volatile Organic Compounds by EPA 8260B									
8260B	9I23060	RSI0643-03	5.20	g	5.00	mL	09/23/09 11:19	PJQ	5030B MS
8260B	9I23060	RSI0643-01	5.27	g	5.00	mL	09/23/09 11:19	PJQ	5030B MS
8260B	9I23060	RSI0643-02	5.28	g	5.00	mL	09/23/09 11:19	PJQ	5030B MS

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracte	Units	Extract Volume	Units	Date Prepared	Lab Tech	Extraction Method
General Chemistry Parameters									
9012A	9I23015	RSI0695-07	0.54	g	50.00	mL	09/23/09 03:08	JFR	Cn Digestion
9012A	9I23015	RSI0695-10	0.54	g	50.00	mL	09/23/09 03:08	JFR	Cn Digestion

APPENDIX E

IRM PHOTO LOG

Photograph 1: 2/4/10: Looking south, Installation of access road

Photograph 2: 2/4/10: Looking southwest, supplemental lead sampling in Grid 13

Photograph 3: 2/4/10: Looking east, drums found on southeastern portion of the site

Photograph 4: 2/8/10: Looking southwest, Grid 13 trees marked for removal

Photograph 5: 2/8/10: Looking southwest, Grid 13 hay bales/silt fence being placed

Photograph 6: 2/11/10: Looking southwest, Grid 13 excavation

Photograph 7: 2/11/10: Transfer of soil from Grid 13

Photograph 8: 2/12/10: Looking southeast, Grid 13 excavation progress

Photograph 9: 2/12/10: Downwind (east) particulate air monitoring station

Photograph 10: 2/12/10: Looking South, Western excavation boundary

Photograph 11: 2/15/10: Looking southeast, Grid 11 excavation

Photograph 12: 2/15/10: Truck loading operations

Photograph 13: 2/15/10: Looking west, Grid 11 verification sampling

Photograph 14: 2/16/10: PCB field screening testing station

Photograph 15: 2/16/10: Contents of drums from Photograph 3

Photograph 16: 2/16/10: Looking southeast, Excavation progress (multiple grids)

Photograph 17: 2/17/10: Looking north, Grid 6 excavation

Photograph 18: 2/17/10: looking west, Grid 8 excavation

Photograph 19: 2/18/10: Looking southwest, additional excavation of Grid 13 south wall

Photograph 20: 2/18/10: Looking north, Grid 1 excavation

Photograph 21: 2/19/10: Looking south, west wall, site excavation progress

Photograph 22: 2/19/10: Looking east, Grids 3, 4, 5, & 7 covered excavated soils

Photograph 23: 2/23/10: Looking east, Additional excavation in Grid 6

Photograph 24: 2/23/10: Looking southeast, Grid 6

Photograph 25: 3/1/10: Looking east, additional excavation of the south wall in Grid 13

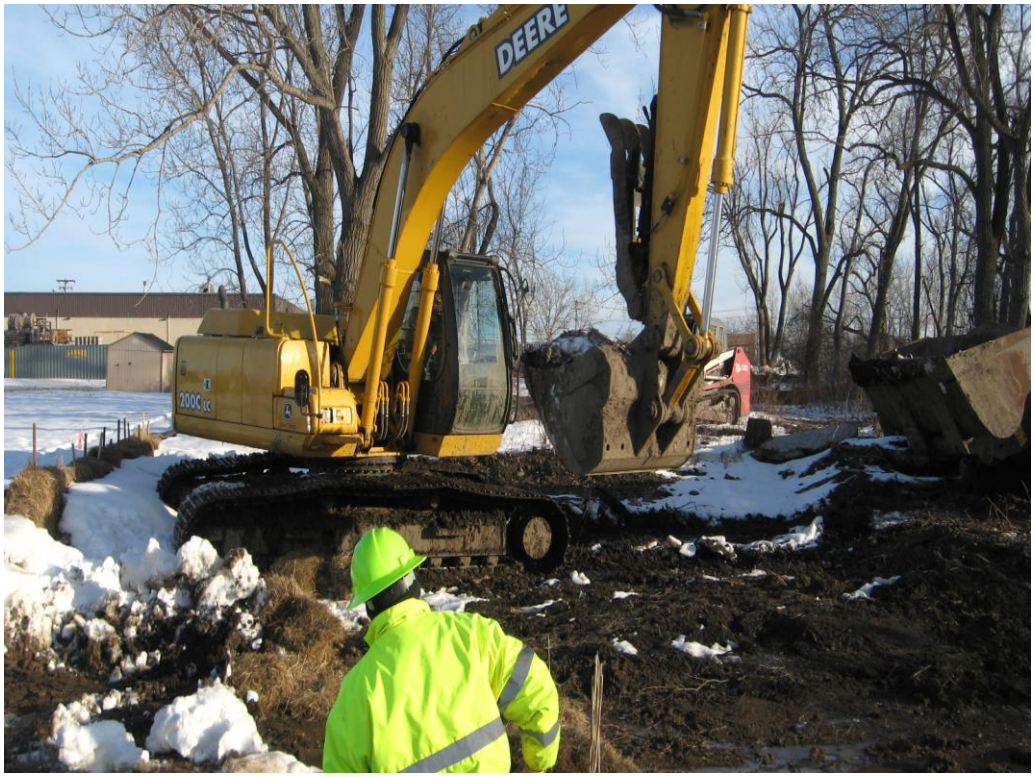
Photograph 26: 3/2/10: Looking south, Excavated site

Photograph 27: 3/2/10: Loading of covered piles

Photograph 28: 3/3/10: Looking east, additional excavation in Grid 7

Photograph 29: 3/3/10: Looking west, saturated soils from Grid 7

Photograph 30: 3/4/10: Looking north, additional Grid 13 excavation



Photograph 31: 3/5/10: Looking north, West wall, site excavation progress

Photograph 32: 3/8/10: Looking east, South wall of Grid 13

Photograph 33: 3/8/10: Looking east, Loading piled soils from Grid 13

Photograph 34: 3/9/10: Looking south, Excavated site

Photograph 35: 3/11/10: Additional excavation in Grid 13

Photograph 36: 3/11/10: Looking southwest, Covered Grid 13 soils

Photograph 37: 3/12/10: Looking northeast, Final Grid 13 excavation level

Photograph 38: 3/12/10: Looking east, Grid 13 south wall

Photograph 39: 4/20/10: Looking southeast, Additional Grid 3 excavation

Photograph 40: 4/21/10: Looking southeast, Additional Grid 3 excavation