REMEDIAL INVESTIGATION REPORT

FORMER BUFFALO CHINA SITE
51 HAYES PLACE
BUFFALO, NEW YORK

BROWNFIELD CLEANUP SITE No. C915209

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1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) was retained by Hodgson Russ, LLP (Hodgson Russ) on behalf of Buffalo China to complete a Remedial Investigation (RI) under the guidelines of the New York State Department of Environmental Conservation's (NYSDEC) Brownfield Program at the Former Buffalo China Site (Site), located at 51 Hayes Place in Buffalo, New York (Figure 1.1). The property is currently owned by Niagara Ceramics. In March 2004, Buffalo China sold the property to Niagara Ceramics but retained liability for environmental impairment, if any, of the Site and adjacent properties that may have been affected by historical Site operations before the sale. Buffalo China has now entered into a Brownfield Cleanup Agreement (BCA) with the NYSDEC to investigate and remediate, as appropriate, potential areas of environmental concern associated with the Site.

Previous investigations at the Site include a Phase I and II Environmental Site Assessment (ESA) prepared by Environmental Audits, Inc. (EA) in 2004 and a Supplemental Site Investigation (SSI) completed by CRA in 2006. The previous investigations identified the presence of inorganic compounds (i.e., metals), volatile organic compounds (VOCs), and semi-volatile organic compounds (SVOCs) at the Site at concentrations exceeding 6 NYCRR Part 375 Soil Cleanup Objectives (SCOs) for restricted use. In addition, VOCs were detected in groundwater samples near the Harrison Street Warehouse at concentrations exceeding 6 NYCRR Part 703.5 Class GA Groundwater standards.

The initial scope of work for this RI is described in the Site Investigation Work Plan (CRA, June 19, 2007) (2007 SIWP). Field activities began in July 2007. Due to delays in obtaining access agreements from owners of off-Site properties, completion of the investigation activities under the initial scope of work was delayed. An Interim Site Investigation Report (ISIR) was prepared and submitted to the NYSDEC in July 2008. The ISIR summarized the field activities that had been completed under the initial scope of work as of June 2008. Because the investigation was not complete, no conclusions or recommendations were presented in the ISIR. Once the activities in the original 2007 SIWP were completed in September 2008, the scope of the investigation was expanded as described in the Supplemental Site Investigation 2008 Work Plan-Bedrock Well Installation (CRA, November 26, 2008) (2008 SSIWP), the Supplemental Site Investigation Work Plan Addendum letter dated April 29, 2009 (2009 SSIWP Addendum), and the Soil Vapor Intrusion Investigation (SVII) Work Plan dated March 27, 2009 (SVII WP).

To provide a complete and cohesive document, this report discusses all work completed under the initial 2007 SIWP and subsequent work completed under the 2008 SSIWP, the 2009 SSIWP Addendum, and the SVIIWP.

1.1 PURPOSE

The purpose of the RI was to characterize the nature and extent of on-Site and off-Site environmental contamination from historical Site operations and activities.

1.2 REPORT ORGANIZATION

This report presents the findings of the RI activities and is organized as follows:

i) Section 1.0 – Introduction: The introduction presents an overview of the project to date.

ii) Section 2.0 – Site Description and History: Descriptions of the Site location, physical condition, current and historic use, and results of previous investigations are presented in Section 2.0.

iii) Section 3.0 – Prior Environmental Investigations: Prior environmental investigations are presented in Section 3.0.

iv) Section 4.0 –Remedial Investigation: A summary of the work conducted during the Remedial Investigation activities is presented in Section 4.0.

v) Section 5.0 – Geology and Hydrogeology: The characterization of Site geology and hydrogeology is presented in Section 5.0.

vi) Section 6.0 – Analytical Results: The analytical data collected during the RI are presented and presented in Section 6.0.

vii) Section 7.0 – Qualitative Human Health Exposure Assessment: A qualitative assessment of the potential for exposure of humans at and in the vicinity of the Site to Site-related contaminants is presented in Section 7.0.

viii) Section 8.0 – Fish and Wildlife Impact Analysis: The results of a Fish and Wildlife Impact Analysis are presented in Section 8.0.

ix) Section 9.0 - Conclusions: A summary of the conclusions of the investigation is presented in Section 9.0.

x) Section 10.0 – References: A list of references materials utilized in the preparation of this RI/FS is presented in Section 10.0.

2.0 SITE DESCRIPTION AND HISTORY

2.1 SITE DESCRIPTION AND HISTORY

The Former Buffalo China Site is located at 51 Hayes Place in Buffalo, Erie County, New York. The Site layout is shown on Figure 2.1. The Site encompasses approximately 10 acres and is bound on the north by Conrail Railroad tracks, on the east by a warehouse currently leased by Robinson Home Products and other commercial/industrial facilities, and on the south and west by commercial, industrial, and residential properties. Interstate I-190 is located nearby to the south of the Site, while the former City of Buffalo School 26 and adjacent playground is located a few hundred feet to the southwest. The nearest body of water is the Buffalo River, located approximately 1/4- to 1/2-mile south and east of the Site. The primary access to the Site is through the east side of the Site, from either Buffalo China Road or Hayes Place.

The Site includes a manufacturing building, a warehouse, outdoor storage silos, a rail spur, roadways, and parking areas. The manufacturing building is a multi-story structure covering approximately 4 acres. The building is connected to the Robinson Home Products Warehouse to the east. Another smaller building referred to as the Harrison Street Warehouse is located at the northwest end of the Site and covers an area of approximately 0.5 acres. The property has been used for the manufacture of china for the past 100 years. During that period, the manufacturing facility expanded to adjacent industrial properties which historically included the Standard Mirror Company and Atlas Wrecking. The Harrison Street Warehouse was once a part of the Standard Mirror Company facility.

2.2 PHYSICAL SETTING

The Site lies within the City of Buffalo corporation limits on a relatively flat parcel of land. The Site is located in a multi-use neighborhood within the City comprised of industrial, commercial, and residential properties.

2.3 GEOLOGY

According to a Phase I report prepared by EA in February 2004, the soils in the area of the Site were deposited by extensive glaciation forming a glacial till deposit underlain by limestone bedrock. The bedrock in the area of the Site, Onondaga Limestone (Nedrow Member), is generally 5 feet or more below ground surface (bgs). The Nedrow Member

is an intermixed light-grey limestone and dark-grey chert bedrock. Bedrock outcrops were not observed on the Site.

Also according to the Phase I report prepared by EA, the soils beneath the Site are classified as urban land (Ud). Urban land is generally covered by asphalt, pavement, concrete, buildings, and other impervious structures. It includes parking lots, shopping and business centers, and industrial parks. These areas generally range from 3 to 500 acres or more and are mostly level to gently sloping. The former Buffalo China Site and the surrounding neighborhood are consistent with this description of urban land.

According to the Phase I and Phase II ESAs completed by EA and the 2006 SSI completed by CRA, the Site is underlain by fill materials ranging in thickness from zero to 4 feet bgs. Fill materials are underlain by clay deposits which range in depth from 4 feet bgs extending to a depth of at least 16.9 feet bgs (the maximum depth penetrated by boreholes). Underlying the clay deposits is bedrock, which for the Buffalo area typically consists of Onondaga Limestone.

2.4 TOPOGRAPHY AND SURFACE WATER DRAINAGE

The USGS 7.5-minute Topographic Quadrangle Map of Buffalo, SE, New York indicates that the Site's ground surface is generally level. Aside from the hilly nature of the on-Site mound of soil, a visual inspection confirmed that the Site is generally flat with some gentle slopes for runoff to Site storm sewers or ditches. The general direction of on-Site surface water drainage appears to be toward a series of storm drains located throughout the paved portions of the Site. The on-Site storm sewers are connected to the City of Buffalo combined sewer system. Under normal conditions the drainage flows to the Buffalo Sewer Authority Bird Island Treatment Plant. Under overflow conditions, the flow would be discharged through the Hamburg Drain, which discharges near the mouth of the Buffalo River.

The nearest natural body of water is the Buffalo River, which is located approximately 0.4 miles south of the Site. The Buffalo River meanders in a westerly direction toward Lake Erie located approximately 2.8 miles west of the Site. The surface elevation for the Site is approximately 590 feet above mean sea level (AMSL).

2.5 REGIONAL HYDROGEOLOGY

The major regional aquifer in the area of the Site is located in the upper bedrock, which consists of the Onondaga Limestone Formation. The Onondaga Formation is primarily a cherty limestone. Recharge to the aquifer occurs through precipitation-induced infiltration into the bedrock. The numerous open joints and bedding planes of the bedrock provide the primary paths for groundwater flow within the rock. Regionally, the groundwater moving through the Onondaga discharges into other bedrock formations or to surface water bodies directly. Based on the EA Phase I report, it appears that both the shallow and regional (deep) groundwater both flow in a westerly-southwesterly direction toward Lake Erie.

Yields of up to several hundred gallons per minute are possible in the Onondaga Limestone Formation. Groundwater is not used as a source of potable water in the portion of Erie County in which the Site is located.

3.0 PRIOR ENVIRONMENTAL INVESTIGATIONS

As indicated in Section 1.0, previous investigations at the Site include a Phase I and Phase II Environmental Site Assessment (ESA), prepared by Environmental Audits, Inc. (EA) in 2004 and a Supplemental Site Investigation (SSI) completed by CRA in 2006. The previous investigations identified the presence of inorganic compounds (i.e., metals), volatile organic compounds (VOCs), and semi-volatile organic compounds (SVOCs) in soils at the Site at concentrations exceeding 6 NYCRR Part 375 Restricted Use Soil Cleanup Objectives (RUSCOs). In addition, VOCs were detected in groundwater samples near the Harrison Street Warehouse at concentrations exceeding 6 NYCRR Part 703.5 Class GA Groundwater standards.

A copy of the Focused Phase II Environmental Assessment: Industrial Property, 51 Hayes Place, Buffalo, New York, report dated March 11, 2004, is provided as Appendix A. The report identifies the "primary conditions of concern" for the Site generally as follows:

- Condition of the shallow surface and subsurface soil profile within the following on-Site locations: 1) paved and dirt/gravel parking areas surrounding the factory; and 2) large perimeter berm.
- Condition of subfloor soil profile within the factory (compressor room, chemical storage vaults, glazemaking area) and inside the warehouse at 151 Harrison Street.

The scope of the Phase II assessment included exterior subsurface borings (to maximum 16 feet below grade), nine building interior subsurface borings (to maximum 10 feet below grade), soil sample collection, screening and analysis. No groundwater samples were collected.

Selected soil samples were submitted for laboratory analysis for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and metals, or a subset thereof. The exterior areas that were assessed include “Former Collision Shop Area,” "Waste Storage and Maintenance Area,” and "Harrison Warehouse and Silo Area." The interior areas that were assessed include "Main Factory Area,” and "Harrison Street Warehouse.” The analytical results were compared to the Technical and Administrative Guidance Memorandum: Determination of Soil Cleanup Objectives and Cleanup Levels (TAGM 4046) recommended soil cleanup objectives and a number of exceedances were noted for various organic and inorganic parameters. The data are summarized in Attachment 3 of the Phase II report (see Appendix A). The results of the assessment, as presented by Environmental Audits, Inc., are summarized as follows:

- Field observations and analytical data identified the presence of significant subsurface concentrations of VOCs inside and near the Harrison Street warehouse. [This included xylenes (up to 11 ppm), ethylbenzene (up to 9.6 ppm) and TCE (up to 250 ppm).] It is suspected that the TCE is related to the former mirror manufacturing facility that occupied the Harrison Street warehouse.
- Field observations and analytical data identified the presence of significant subsurface concentrations of petroleum related VOCs, SVOCs, and metals in the Former Collision Shop Area.
- The subfloor soil sample from the Glazemaking room exhibited an elevated lead concentration (10,000 ppm).

The NYSDEC was notified of the presence of petroleum related contamination identified in the Former Collision Shop Area and Spill Number 0375511 was assigned to the area. Hazard Evaluations. Inc. of Orchard Park, New York, on behalf of Buffalo China, conducted remedial activities to address the petroleum contamination with oversight from the NYSDEC. The spill number was closed November 1, 2005.

Based on the findings of the investigations conducted by EA, CRA developed the scope of work for the 2006 SSI. The investigative results for the Phase II investigation conducted by EA were summarized and presented as Appendix B in the 2006 SSI Report dated June 2006. The results of the SSI conducted by CRA are summarized below.

3.1 2006 SUPPLEMENTAL SITE INVESTIGATION ACTIVITIES

Seventeen soil borings were advanced and six groundwater monitoring wells (MW-4 through MW-9) were installed as part of the 2006 SSI. During the investigation, 32 soil samples were collected from 17 boring locations along with groundwater samples from six new monitoring wells and three existing monitoring wells. The soil samples were analyzed for VOCs, SVOCs, and lead. The groundwater samples were analyzed for VOCs, SVOCs, total lead and dissolved lead.

3.1.1 2006 SSI SOIL RESULTS

Table 3.1 and Figure 3.1 summarize 2006 SSI soil results that are above applicable criteria. The detected lead concentrations were greater than the Part 375 RUSCOs for industrial use criterion of 3,900 milligrams per kilogram (mg/kg) in two of 32 samples, specifically borehole BH-7 (4,980 mg/kg) and BH-9 (9,250 mg/kg). These two soil

samples were collected from the top 2 feet of soil. Specifically, BH-7 was collected from 1.4 to 1.8 feet bgs and BH-9 was collected from 0.5 to 1.0 feet bgs. The lead concentrations in deeper sample intervals at BH-1, BH-5, BH-9, BH-15, and BH-16 were below the Part 375 residential use criterion for lead of 400 mg/kg, indicating that the depth of lead impacts in soil are limited to less than 2 feet bgs.

In general, the highest detected concentrations of lead at the Site were in the area between the Former Buffalo China building and the Harrison Street Warehouse, at locations BH-7 (4,980 mg/kg) and BH-9 (9,250 mg/kg). The highest detected concentration of lead in soil from the north side of the Site was found along the Conrail Railroad tracks at location BH-15 (804 mg/kg). This concentration is less than the applicable Soil cleanup Objective (SCO) for industrial use (3,900 mg/kg). At the borehole sample locations along the south side of the Site (BH-3, BH-4, BH-11, BH-12, BH-13, and BH-14), the detected lead concentrations were less than the Part 375 SCO for industrial use of 3,900 mg/kg.

Detected VOC concentrations in on-Site soil samples included cis-1,2-dichloroethene (cis-1,2-DCE), methylene chloride, tetrachloroethene (PCE), and trichloroethene (TCE). The detected concentrations were less than the RUSCOs for industrial use with the exception of BH-5. At this location, the detected concentration of TCE in the shallow sample interval (1.6 to 2.5 feet) was 670 mg/kg, which is greater than the SCO of 400 mg/kg for industrial use. The detected concentration of TCE in the deeper sample interval (5.5 to 6.5 feet) was 88 mg/kg. Therefore, it was concluded that a surface or near-surface source of VOCs existed in the area of borehole BH-5.

Various SVOCs, primarily polynuclear aromatic hydrocarbons (PAHs), were also detected in Site soil. In general, the detected concentrations were below the industrial use RUSCOs, with the exception of BH-13, located along the south side of the Site where benzo(a)pyrene was detected at a concentration of 1.3 mg/kg, which exceeds the industrial use SCO of 1.1 mg/kg. The detected concentrations of SVOCs in Site soil are generally lower in the deeper sample intervals, indicating that the depth of SVOC impact is also limited to shallow soils.

3.1.2 2006 SSI GROUNDWATER RESULTS

The groundwater samples collected during the 2006 SSI were analyzed for Target Compound List (TCL) VOCs. In addition, a groundwater sample from MW-8 was analyzed for total and dissolved lead. Table 3.2 and Figure 3.2 summarize the groundwater analytical results that exceed applicable criteria from the 2006 SSI.

The detected VOCs in groundwater included 4-methyl-2-pentanone, cis-1,2-DCE, methyl tert butyl ether, TCE, and vinyl chloride. The primary VOCs of interest included TCE and its degradation product cis-1,2-DCE. These chemicals were detected in concentrations exceeding their respective NYS groundwater quality standard at groundwater monitoring wells MW-4, MW-5, and MW-6, all of which are located in the area between the Former Buffalo China building and the Harrison Street Warehouse. The highest VOC concentrations were detected at MW-5. Vinyl chloride was also detected at MW-6. The concentrations of VOCs were generally non-detect at MW-9, which is considered an upgradient well located along the northern boundary of the Site, and at MW-7, located to the south of the Former Buffalo China building. TCE and cis-1,2-DCE were also detected at MW-8, located to the north of the Former Buffalo China building, but at much lower concentrations when compared to VOC concentrations detected at MW-5. The presence of VOCs in the groundwater correlated with the soil sample results, indicating a possible VOC source area near the Harrison Street Warehouse.

Lead was detected in the groundwater sample from monitoring well MW-8. The total concentration of lead reported in the groundwater sample from MW-8 was 46 micrograms per liter (µg/L); however, dissolved lead was not detected at this location at or above 3 µg/L. The turbidity of the groundwater sample collected from MW-8 was approximately 200 nephelometric turbidity units (NTU) indicating the presence of suspended sediment in the samples. Based on the laboratory results for dissolved lead, the elevated concentration of total lead is most likely due to the presence of sediment in the sample and not indicative of groundwater quality.

3.2 2006 SUPPLEMENTAL SITE INVESTIGATION CONCLUSIONS

Based on the results of the SSI and the Qualitative Human Health Exposure Assessment completed for the 2006 SSI, the following conclusions were made:

1. The borehole investigation identified the presence of fill material to depths of up to 4 feet bgs, comprising soil, brick, and slag. The fill material is underlain by fine-grained soil, i.e., clay with silt. Borehole refusal occurred within the fine-grained soils, at depths of up to approximately 17 feet bgs or less.
2. Analytical data for soil samples identified the presence of lead, VOCs, and SVOCs. The chemical impacts are primarily found in the shallow soil/fill material. The chemical concentrations are considerably less in the underlying sample intervals.
3. Groundwater was found within monitoring wells screened within the fill/clay material. The depth to groundwater varied from approximately 1 foot

to 7.5 feet bgs. Water level data indicated that the groundwater hydraulic gradient was southerly.

4. Analytical data for groundwater samples identified the presence of VOCs at on-Site monitoring wells. The most frequently detected VOCs were TCE and cis-1,2-DCE. The greatest VOC concentrations were detected at MW-5, located in the area between the former Buffalo China building and the Harrison Street Warehouse, and at MW-6, located to the south of MW-5 near the property boundary. At MW-8, lead was detected in the unfiltered sample (total lead analysis), but was not detected in the filtered sample (dissolved lead analysis).
5. A qualitative exposure assessment was completed based on the 2006 SSI and 2004 EA Phase II investigation data. The assessment identified media and potential human exposure for on-Site soil (through dermal contact, incidental ingestion, and inhalation of particulate and volatile vapors), and on-Site groundwater (through dermal contact, incidental ingestion, and inhalation of volatile vapors). The potentially exposed receptors included Site workers (industrial workers and construction/utility workers) and persons that may trespass onto the Site. Potential human exposure can be addressed using remedial or other methods to eliminate exposure pathways and/or provide worker protection.
6. Chemicals of potential concern (COPC) were identified by comparison of maximum detected concentrations to conservative screening criteria for soil and groundwater. The identified COPCs for soil included TCE, benzo(a)pyrene, dibenz(a,h)anthracene, arsenic, and lead. Additional volatile compounds are flagged as COPCs for the soil-to-indoor air pathway. The identified COPCs for groundwater included cis-1,2-DCE, TCE, vinyl chloride, and lead.

4.0 BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION

The scope of the RI was initially developed based on the findings of the 2006 SSI and expanded after each successive investigation completed by CRA in 2007, 2008, and 2009. The primary objective of this RI was to gather the data necessary to complete the characterization of chemical presence in on-Site and off-Site soil, groundwater, and other potentially affected media in order to identify and evaluate necessary and appropriate remedial alternatives.

4.1 APPLICABLE REGULATORY STANDARDS

The current regulatory standards applicable to evaluating and characterizing the soil and groundwater quality at the Site are:

i) 6 NYCRR Part 375 Environmental Remediation Programs Restricted Use Soil Cleanup Objectives for Protection of Public Health – Industrial Use for the evaluation of on-Site soils.

ii) 6 NYCRR Part 375 Environmental Remediation Programs Restricted Use Soil Cleanup Objectives for Protection of Public Health – Residential Use for evaluation of off-Site soils.

iii) Water Quality Standards for Toxic and Other Deleterious Substances, 6 NYCRR, Part 703.5 for the evaluation of overburden and bedrock groundwater.

iv) Technical and Operation Guidance Standards (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values dated October 22, 1993 (reissued June 1998).

The current criteria for evaluating soil vapor are the decision matrices in the New York State Department of Health's (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York dated October 2006.

4.2 SCOPE OF WORK

The initial scope of work for RI is described in the 2007 SIWP. Field activities were completed between July 2007 and September 2008. An ISIR was prepared and submitted to the NYSDEC in July 2008. The ISIR summarized the field activities that had been completed under the initial scope of work as of June 2008. Because the investigation was not complete, no conclusions or recommendations were presented in

the ISIR. Once the activities in the original 2007 SIWP were completed in September 2008, the scope of the investigation was expanded as described in the 2008 SSIWP, the 2009 SSIWP Addendum, and the SVIIWP. The following sections discuss the investigation activities completed under each of the work plans.

4.2.1 SI WORK PLAN

Investigation activities completed under the 2007 SIWP included surface soil sampling, soil boring advancement, collection of subsurface soil samples, monitoring well installation, and collection of groundwater samples.

4.2.1.1 2007 SIWP SURFACE SOIL SAMPLING

Surface soil sampling was completed under the scope of the 2007 SI WP in May and August 2008 to evaluate lead concentrations in the on-Site and off-Site surface soils based on the results of the 2006 SSI. Surface soil samples were collected from designated locations using single-use disposable plastic trowels. At each location, a representative soil sample set was collected. Each sample set consisted of one sample from zero to two inches bgs and one sample from two inches to four inches bgs. The samples were placed in pre-cleaned sample containers. Twenty-five locations were sampled (locations SS-1 through SS-25). One sample set was collected from each location for a total of 50 surface soil samples. In addition, two blind field duplicate samples were collected for quality control purposes. Surface soil sample locations are presented on Figure 4.1 and a summary of the surface soil sample locations and analysis is presented in Table 4.1. The surface soil sample locations are as follows:

i) Three sets of surface soil samples were collected on-Site. One sample set was collected near the northeast corner of the Harrison Street Warehouse (location SS-2) (northeast Harrison Street Warehouse), one on the south side of the Harrison Street Warehouse (location SS-11) (south Harrison Street Warehouse), and one from the top of the Soil Mound (location SS-1).

ii) Twelve sample sets were collected from five properties on Harrison Street; (82 Harrison [locations SS-17 and SS-18], 118 Harrison [locations SS-19 through SS-24], 103 Harrison [location SS-10], 127 Harrison front yard [location SS-8], 127 Harrison back yard [location SS-9], and 138 Harrison [location SS-6]).

iii) One sample set was collected from 148 Milton Street (location SS-7).

iv) Six sample sets were collected from six properties on Lester Street (22 Lester Street [location SS-15], 36 Lester Street [location SS-16], 55 Lester Street North

[location SS-3], 55 Lester Street South [location SS-4], 58 Lester Street [location SS-5]), 66 Lester Street [location SS-25]).

v) Three sample sets were collected from three properties on Hayes Place (20 Hayes Place [location SS-14], 34 Hayes Place North [location SS-12], and 34 Hayes Place South[location SS-13]).

Based on the results of the surface soil sampling completed under the 2007 SIWP, it was concluded that no further surface soil investigation activities were necessary. The surface soil sample results are discussed in detail in Section 6.2.

4.2.1.2 SOIL BORING ADVANCEMENT AND SUBSURFACE SOIL SAMPLING

Subsurface soil sampling was completed under the scope of the 2007 SIWP in July 2007 and May 2008 to evaluate soil conditions in the on-Site and off-Site subsurface soils. A total of 24 subsurface soil samples, including three blind field duplicate samples, were collected from 21 locations both on and off Site. Subsurface sample locations are shown on Figure 4.2. A summary of the subsurface samples, the purpose of each sample, and analytical parameters is presented in Table 4.2. Stratigraphic and monitoring well construction logs are presented in Appendix B.

The locations of the subsurface soil samples collected per the 2007 SIWP are as follows:

i) One sample was collected along the access drive north of the ceramics building and south of the CSX Railroad ROW (location SB-1-07).

ii) Six samples, including two blind field duplicates, were collected from the soil mound (Soil Mound) north of the Harrison Street Warehouse. The boreholes were staggered so that there was one borehole advanced in the west, center, and east sections of the Soil Mound, and one advanced in the dog-leg section of the mound (locations SB-2-07, SB-3-07, SB-4-07, and SB-17-07).

iii) Seven samples, including one blind field duplicate, were collected east of the Harrison Street Warehouse (locations SB-5-07, SB-6-07, SB-7-07, SB-8-07, SB-9-07, SB-10-07).

iv) Six samples were collected from beneath the footprint of the Harrison Street Warehouse (locations SB-11-07, SB-12-07, SB-13-07, SB-14-07, SB-15-07, and SB-16-07).

v) One sample was collected south of the Harrison Street Warehouse (location SB-18-07).

vi) One sample was collected at 20 Hayes Place (location SB-18-08).

vii) One sample was collected at 34 Hayes Place (location MW-17).

viii) One soil sample was collected at 103 Harrison Street (location MW-14).

Borehole advancement for geologic logging and sampling of subsurface soils was performed using either hollow stem auger or direct push technique. At locations where a monitoring well was to be installed, the borehole was advanced using four-inch inside diameter (ID) (eight-inch outside diameter [OD]) hollow-stem augers from ground surface to the desired depth of installation. All other boring locations were sampled using direct push technology.

Soil samples were collected continuously during soil boring and/or monitoring well installation. Each soil boring was advanced until bedrock was encountered. Headspace screening of the collected samples was completed utilizing a photoionization detector (PID). Headspace screening samples were placed in zip-lock bags and left at room temperature for 30 minutes prior to monitoring. Visual observations and field screening results were recorded. Samples were selected for analysis based on the results of the headspace screening and other field observations (i.e., color, odor, etc.). The results of the headspace screening are provided on the stratigraphic logs in Appendix B.

Subsurface soil sampling results are discussed in Section 6.3.

4.2.1.3 OVERBURDEN MONITORING WELL INSTALLATION AND GROUNDWATER SAMPLING

Eight new overburden groundwater monitoring wells (MW-10 through MW-17) were installed as part of the scope of the 2007 SIWP to evaluate groundwater conditions both on and off-Site. Monitoring wells were installed in July 2007, May 2008, and August 2008. Monitoring well locations are shown on Figure 4.3. A summary of monitoring well installation and sampling information is provided on Table 4.3. Well diagrams and construction details are provided on the stratigraphic logs presented in Appendix B.

Overburden wells were constructed of two-inch diameter polyvinyl chloride (PVC) riser pipe typically fitted with a five-foot long, 10-slot screen. The annular space between the screen and the borehole wall was backfilled with double ought quartzite sand to approximately one foot above the top of the well screen. The screen and sand pack were

isolated by placing a minimum of two feet of bentonite pellets on top of the sand pack. A cement/bentonite grout was then placed above the bentonite seal to approximately one foot below grade. All wells except MW-12 were completed by installing flush-mount casings for protection. Monitoring well MW-12 was completed as a stick up well with a protective casing.

The following overburden wells were installed per the 2007 SIWP:

- MW-10 (August 2008 – off Site)
- MW-11 (August 2008 – off Site)
- MW-12 (July 2007 – on Site)
- MW-13 (July 2007 – on Site)
- MW-14 (May 2008 – off Site)
- MW-15 (May 2008 – off Site)
- MW-16 (May 2008 – off Site)
- MW-17 (May 2008 – off Site)

Monitoring wells were developed following installation and prior to sampling. Well development logs are presented in Appendix C. Prior to sampling, wells were purged until water quality parameters stabilized. Stabilization was considered achieved when water quality parameters did not deviate more than 10 percent from previous readings. Purging and sample records are provided in Appendix D.

All wells were sampled for TCL VOCs, while a select number of wells were also sampled for TCL SVOCs, total and dissolved TAL Metals, total and dissolved lead, pesticides, herbicides, and PCBs. Table 4.3 provides details of the parameters sampled at each well.

Four overburden monitoring wells (MW-13 through MW-16) were unable to be sampled due to insufficient volume or they were dry during each sample event.

Existing monitoring wells MW-4 through MW-6, MW-8, MW-9, and MW-12 were sampled in August 2007 and May 2008. In May 2008, well MW-17 was added to the sampling program. Monitoring wells MW-10 and MW-11 were installed in August of 2008 and sampled in September 2009.

The results of the groundwater sampling completed under the 2007 SIWP identified the presence of VOCs in the Site overburden groundwater. The highest VOC concentrations were detected in monitoring wells MW-4, MW-5, and MW-12.

Groundwater sampling results are discussed in detail in Section 6.4.

4.2.1.4 SURVEY

All surface soil samples, soil borings, and monitoring wells were surveyed to obtain accurate horizontal location and vertical elevations of ground surface and tops of well casings relative to mean sea level.

Each location was surveyed to the nearest 0.01 foot relative to the Universal Transverse Mercator (UTM) coordinates North American Datum (NAD83). Ground elevations were surveyed at each location to the nearest 0.01 foot relative to the North American Vertical Datum (NAVD88). Survey control points are present throughout the Facility.

4.2.2 2008 SSI WORK PLAN

Based on the findings of the completed 2007 SIWP, the 2008 SSIWP was prepared to evaluate bedrock groundwater conditions and determine if VOCs were present in the bedrock groundwater. Under the 2008 SSIWP, one overburden monitoring well and six bedrock monitoring wells were installed in December 2008. Monitoring well locations are shown on Figure 4.3. The following wells were installed under the 2008 SSIWP:

- MW-18 (on Site overburden well)
- MW-5A (on Site bedrock well)
- MW-7A (on Site bedrock well)
- MW-9A (on Site bedrock well)
- MW-13A (on Site bedrock well)
- MW-14A (off Site bedrock well)
- MW-15A (off Site bedrock well)

Subsurface soil sampling was not included as part of the 2008 SSIWP.

The overburden wells were installed as described in Section 4.2.1. Bedrock monitoring wells were completed as open coreholes. Borings for bedrock wells were advanced to the top of the bedrock using an auger/rollerbit. After bedrock was encountered, a six-inch tri-cone roller bit was used to drill approximately two feet into the bedrock, enabling the placement of a four-inch diameter steel riser sealed into the top of the bedrock unit. The annular space between the borehole and the casing was filled with bentonite grout. The installation of these casings effectively sealed off the overburden

from the bedrock zone, ensuring no transport between the overburden and bedrock units.

The bedrock was cored in five-foot runs. Upon completion of each five feet core run, the water producing characteristics of the open interval were determined by conducting "bail-down" and recovery tests. Coring was terminated when the first interval producing sufficient water recharge for sampling was encountered.

Bedrock cores were logged noting the rock description, the core run, the depth of the run, percent recovery, and the rock quality designation (RQD). Lithologic logs of the cored bedrock are presented in Appendix B.

Wells were surveyed and developed as discussed above in Section 4.2.1. Well development logs are presented in Appendix C. One round of groundwater sampling was completed under the 2008 SSIWP. All wells were purged prior to sampling as discussed in Section 4.2.1. Purging and sample records are provided in Appendix D. Wells MW-4 through MW-7, MW-9 through MW-12, MW-17, MW-18, MW-5A, MW-7A, MW-9A, and MW-13A through MW-15A were sampled in January 2009. Monitoring well MW-8 could not be located due to ice and snow cover in January 2009 and as a result was sampled in March 2009. Groundwater samples collected under the 2008 SSIWP were analyzed for TCL VOCs.

The results of the sampling completed in January 2009 were consistent with the previous sample results and identified the presence of VOCs at concentrations that exceed NYS groundwater standards in the bedrock groundwater both on Site and off Site.

Groundwater sampling results are discussed in detail in Section 6.4.

4.2.2.1 HYDRAULIC CONDUCTIVITY TESTING

The 2008 SSIWP also included hydraulic conductivity testing on all existing monitoring wells. Single well response tests were conducted at all each well. Two rising head and two falling head tests were conducted at each location. The four results for each well were used to calculate give an average hydraulic conductivity for that well. The Site-wide average hydraulic conductivity for the overburden aquifer and the bedrock aquifer were calculated from the individual monitoring well hydraulic conductivity measurements. The slug tests were conducted as follows:

- The water level in the monitoring well was measured.

- A pressure transducer was installed at the monitoring well and set at a one-second recording interval.
- The water level was allowed to equilibrate from the addition of the pressure transducer.
- A slug of a known volume was inserted into the water column of the well.
- Manual water level measurements were collected at 30-second intervals for the first five minutes and then at one-minute intervals for the next 10 minutes. If after 15 minutes the water level had not recovered to within 10 percent of the original water level, manual water levels were recorded at five-minute intervals for one hour or until the water level recovered to within 10 percent of the initial water level.
- After the well recovered to within 10 percent of the initial water level or one hour and 15 minutes had elapsed, the slug was removed from the water column.
- Manual water levels were recorded at the intervals described above.
- After water level recovery to within 10 percent of the initial water level or one hour and 15 minutes had elapsed, the test was completed.
- The pressure transducer data was downloaded.

After the hydraulic conductivity fieldwork was completed, the well response data were analyzed using AQTESOLV™ software to calculate the hydraulic conductivity. The Site average overburden and bedrock hydraulic conductivity were calculated based on the AQTESOLV™ results.

The results of the hydraulic conductivity testing are discussed in Section 5.4.2.

4.2.3 2009 SSI WORK PLAN ADDENDUM

Based on the results of the groundwater sampling completed under the 2008 SSIWP, additional overburden and bedrock monitoring well installation, groundwater sampling, and soil sampling was completed under the 2009 SSIWP Addendum.

Under the 2009 SSIWP Addendum, four overburden and nine bedrock wells were installed at both on Site and off Site locations to delineate further the horizontal extent of VOC presence in the overburden and bedrock groundwater. Subsurface soil samples were also collected during the monitoring well installations to evaluate the presence of VOCs in soils at the monitoring well locations. The monitoring well installation and subsurface soil sampling activities were completed in May and June 2009. Groundwater sampling was completed in July 2009.

The following Monitoring wells were installed under the 2009 SSIWP Addendum:

- MW-6A (on Site bedrock well)
- MW-18A (on Site bedrock well)
- MW-19 (on Site overburden well)
- MW-19A (on Site bedrock well)
- MW-20 (on Site overburden well
- MW-20A (on Site bedrock well)
- MW-21A (on Site bedrock well)
- MW-22 (off Site overburden well)
- MW-22A (off Site bedrock well)
- MW-23A (off Site bedrock well)
- MW-24A (off Site bedrock well)
- MW-25 (off Site overburden well)
- MW-25A (off Site bedrock well)

With the exception of MW-18A, soil samples were collected at each monitoring well location. Soil samples were collected as described in Section 4.2.1 and analyzed for TCL VOCs.

The new monitoring wells were installed, surveyed, and developed as described in Section 4.2.1. Stratigraphic, lithologic, and well construction logs are provided in Appendix B. Development records are provided in Appendix C.

In July 2009, all overburden and bedrock groundwater monitoring wells were sampled for TCL VOC analysis following USEPA Method SW846 8260. Wells were purged and sampled as described in Section 4.2.1. Purging and sample records are provided in Appendix D. A total of 15 overburden monitoring wells (MW-4 through MW-12, MW-17 through MW-20, MW-22, and MW-25) and 15 bedrock monitoring wells (MW-5A through MW-7A, MW-9A, MW-13A through MW-15A, and MW-18A through MW-25A) were sampled under the 2009 SSIWP Addendum.

The results of the sampling completed in July 2009 delineated the limits of the VOC presence in both the overburden and bedrock.

4.2.4 SOIL VAPOR INTRUSION INVESTIGATION

To investigate the potential for contaminants in the subsurface to volatilize from soil and groundwater to soil gas within the unsaturated overburden and then into building

structures at off Site locations, a Soil Vapor Intrusion (SVI) investigation was completed in November 2009. The investigation was completed in accordance with NYSDOH's "Guidance for Evaluating Soil Vapor Intrusion in the State of New York," October 2006 (SVI Guidance).

The SVI investigation included the collection of five sub-slab soil vapor samples, five indoor air samples, and two outdoor air samples. A summary of SVI investigation samples collected and analytical parameters is presented on Table 4.4. SVI investigation sample locations are presented on Figure 4.4.

SVI investigation field activities are summarized in the following sections.

4.2.4.1 SUB-SLAB PROBE INSTALLATION

Four semi-permanent, sub-slab gas probes were installed at the four locations identified on Figure 4.4. One sub-slab sample and one indoor air sample was collected from each of these locations. Each sub-slab gas probe consists of one shallow soil gas probe installed in a central location away from foundation footings.

The sub-slab probe was installed by drilling a 3/8-inch-diameter hole through the slab with a drill and spline bit. After drilling though the slab, the slab thickness was measured and recorded. A 1-inch-diameter hole is then drilled within the 3/8-inch hole to a depth of approximately 1.5 inches into the top of the slab. The sub-slab probe consists of a 1.5-inch-long by 3/8-inch OD brass pipe connected to a 3/4-inch brass coupling and topped off with a 3/8-inch by 1/2-inch stainless steel set screw "cap." The annular space between the fittings and the slab was filled with non-shrink cement grout. A typical sub-slab, soil vapor probe installation is depicted on Figure 4.5.

4.2.4.2 SUB-SLAB PROBE SAMPLING

The sub-slab samples were collected using 6-liter capacity Summa™ canisters fitted with a laboratory calibrated critical orifice flow regulation device sized to allow the collection of the soil vapor samples over a 24-hour period. A typical setup for a soil vapor intrusion canister is depicted in Figure 4.6. Summa™ canisters that were laboratory batch certified clean at the 100 percent level were used so data could be evaluated for assessing potential human health risk. The 24-hour sample collection time for a 6-liter capacity Summa™ canister corresponds to a maximum flow rate of approximately 0.0042 liters per minute (L/min). This soil gas sample collection flow rate is well below

the maximum flow rate of 0.2 L/min recommended by NYSDOH (2006). A maximum flow rate of 0.1 L/min is recommended to limit VOC stripping from soil, prevent the short-circuiting of ambient air from ground surface that would dilute the soil gas sample, and increase confidence regarding the location from which the soil gas sample is obtained. The low flow rate of 0.0042 L/min provides the most representative sample of in-situ conditions.

Prior to sample collection, the soil gas probe was purged at a maximum flow rate of 0.1 L/min. A maximum of three soil gas probe "dead volumes" were purged to remove potentially stagnant air from the internal volume of the soil gas probe and ensure that soil gas representative of the conditions beneath the sub-slab was drawn into the Summa™ canister. The soil gas probe "dead volumes" were calculated based on field measurements of probe construction (i.e., tubing length and tubing inner diameter) and aboveground sampling equipment. A helium blanket over the sample probe was used during sampling activities to evaluate short-circuiting of the sampling train from the ambient air.

4.2.4.3 INDOOR AIR SAMPLING

Indoor air samples were collected concurrently with the sub-slab soil vapor samples. The samples were collected from the breathing zone between three and five feet above the ground/floor surface in the same area as the sub-slab sample. Indoor air samples were collected using six-liter capacity Summa™ canisters fitted with a laboratory-calibrated critical orifice flow regulation device sized to allow the collection of the soil gas samples over a 24-hour period.

4.2.4.4 OUTDOOR AIR SAMPLING

Ambient outdoor air vapor samples were collected upwind of the buildings in which the sub-slab and indoor air samples were collected. One ambient outdoor air sample was collected concurrently with the sub-slab soil vapor and indoor air samples. Outdoor air samples were collected from the breathing zone between three feet and five feet above the ground surface over a 24-hour duration. The 24-hour sample collection time for a six-litre capacity Summa™ canister corresponds to a maximum flow rate of approximately 0.0042 L/min.

All SVI investigation samples were analyzed following the USEPA's TO-15 gas GC/MS methodology and were completed by Test America of Knoxville, Tennessee. SVI investigation results are discussed in Section 6.5.

4.2.5 WASTE HANDLING, STORAGE AND DISPOSAL

Investigation derived wastes (IDW) including soil cuttings, and drilling and decontamination water generated during the investigation, were collected and placed directly into 55-gallon drums. These drums were then labeled and stored on-Site pending waste characterization. All IDW were ultimately disposed off Site at a licensed disposal facility in accordance with applicable regulatory requirements.

5.0 GEOLOGY AND HYDROGEOLOGY

5.1 GEOLOGY

Based on the 2007, 2008, and 2009 investigation activities, the fill encountered at the Site ranged in thickness from 0.5 feet to 16 feet, with the thickest fill encountered along the Soil Mound north of the Harrison Street Warehouse. The Soil Mound is approximately 10 feet higher in elevation than the surrounding Site topography. It should be noted that the borings at these locations began at the top of the Soil Mound, resulting in an increased measured thickness for the fill material. The average thickness of the fill considering both on- and off-Site locations, and disregarding the soil mound thicknesses, is 2.62 feet.

The native soils underlying the fill generally consist of dense clay underlying sand and/or silt; however, the soil stratigraphy is highly variable, and silt and clay generally underlies the fill at the Site. The average clay thickness considering both on- and off-Site locations is 7.34 feet. The bedrock was overlain by clay at all investigation locations.

Bedrock cores were collected and logged at 15 bedrock monitoring well locations. These cores indicate a light to dark gray cherty limestone (the Onondaga Limestone). The limestone is massive and moderately fractured or broken at the top of the formation.

5.3 BEDROCK SURFACE CONTOUR

Based on field observations and the measured depth to the top of bedrock for on-Site and off-Site locations, the average depth to bedrock is 9.72 feet bgs. A top of bedrock surface contour map (Figure 5.1) was prepared based on the field measurements. A review of Figure 5.1 indicates that the top of bedrock surface beneath the Site dips similar to the gentle regional dip, which is to the south with a gradient of approximately 45 feet per mile. The bedrock surface is not flat, but tends to undulate, with localized mounds and depressions. These features could influence local groundwater flow in the overburden and shallow bedrock.

5.4 SITE HYDROGEOLOGY

Groundwater is first encountered at the Site in the low permeability, silty clay. The average depth to groundwater is approximately 6.63 bgs across the Site based on the most comprehensive round of water level measurements obtained in July 2009.

As depicted on Figures 5.2 and 5.3, groundwater flow direction is generally to the west southwest at a gradient of 0.023 foot per foot in the overburden and 0.024 foot per foot in the bedrock. Seasonal variations in groundwater elevations between January 2009 and July 2009 ranged from several tenths of a foot to slightly greater than a foot. From a seasonal perspective, it is anticipated that water levels would rise and fall congruently across the Site. Accordingly, groundwater flow conditions, as depicted on Figures 5.2 and 5.3, would accurately represent groundwater flow at other times of the year.

Results of the in-situ hydraulic conductivity tests performed in the monitoring wells at the Site are shown in Appendix E and are summarized in Table 5.1. The hydraulic conductivity of the overburden ranged from approximately 1.48E-05 cm/sec at monitoring well MW-11 to 5.58E-04 cm/sec at monitoring well MW-7. The geometric mean hydraulic conductivity for the overburden wells is calculated to be 1.95E-04 cm/sec. The hydraulic conductivity of the bedrock ranged from approximately 2.24E-04 cm/sec at monitoring well MW-23A to 1.06E-01 cm/sec at monitoring well MW-25A. The geometric mean hydraulic conductivity for the bedrock wells is calculated to be 2.79E-02 cm/sec.

6.0 ANALYTICAL RESULTS

Samples of environmental media, including surface soil, subsurface soil, groundwater, soil vapor, and indoor air were collected and analyzed during the RI. All samples, with the exception of soil vapor and indoor air, were submitted to Test America in Pittsburgh, Pennsylvania under standard chain of custody (COC) procedures. Soil vapor and indoor air samples were submitted to Test America in Knoxville, Tennessee. The data resulting from the field activities have been reviewed for quality assurance as described in the Quality Assurance Project Plan (QAPP) in Appendix B of the 2007 SIWP.

The following subsections present a discussion of the analytical results for each media sampled. Laboratory analytical reports are contained electronically in Appendix F. Data Validation reports are provided electronically in Appendix G.

6.2 SURFACE SOIL

Fifty-two surface soil samples, including two blind field duplicates, were collected from 25 locations, both on Site and off Site in May and August 2008 as part of this RI. One sample set consisting of one sample from zero inches to two inches bgs and one sample from two inches to four inches bgs was collected at each location. Analytical results are presented in Table 6.1. Refer to Figure 4.1 for sample locations.

Three of the surface soil sampling locations were on Site (locations SS-1, SS-2, and SS-11). The results from those locations were compared to the industrial RUSCO for lead, which is 3,900 mg/kg. Results for the other 22 locations were off-Site and the results from these locations were compared to the RUSCO for residential use for lead, which is 400 mg/kg. Although lead was detected in all 52 surface soil samples, there was one exceedance of the criteria observed. Lead was detected in the surface soil sample collected from the front yard of the residential property located at 127 Harrison Street (location SS-8) from the two-inch to four-inch bgs interval at a concentration of 632 mg/kg, which exceeds the residential RUSCO of 400 mg/kg. Lead was also detected in the zero-inch to two-inch sample from the same location at an estimated concentration of 364 mg/kg, which is below the RUSCO for residential use.

The surface soil samples collected from the residential property located at 103 Harrison Street (location SS-10), the former City of Buffalo School yard located at 82 Harrison Street (locations SS-17 and SS-17), two locations from the adjacent school yard at 118 Harrison Street (SS-20 and SS-24), and a vacant parcel located at 66 Lester Street (SS-25) were analyzed for TAL metals. The results from these locations were compared to the

residential RUSCOs. Although there were detections for every metal, no residential RUSCOs were exceeded.

The results of the surface soil sampling confirm that the two shallow soil sample locations identified in the 2006 SSI (BH-7 and BH-9 on Figure 3.1) are discrete localized areas of elevated concentrations of lead. The two locations are on the Site and public access to the areas where the samples were collected is restricted by the Site's perimeter fence.

6.3 SUBSURFACE SOIL

Thirty-seven subsurface soil samples, including four blind field duplicates, were collected as part of this RI. Table 4.2 presents a summary of the samples and the associated analysis completed for each sample. All subsurface soils were analyzed for TCL VOCs. Twenty-four of the subsurface soil samples were also analyzed for TCL SVOCs. Fifteen samples were analyzed for TCL VOCs and SVOCs as well as lead. Nine of the samples were analyzed for an expanded parameter list which included the TCL VOCs, TCL SVOCs, as well as target analyte list (TAL) metals, cyanide, polychlorinated biphenyls (PCBs), pesticides, and herbicides. Results for samples collected from on-Site locations were compared to the Part 375 industrial RUSCOs. Results for samples collected from off-Site locations were compared to residential RUSCO. Although soil samples were collected from 20 Hayes Place and 34 Hayes Place to identify off-Site impacts, the results were compared to the Part 375 industrial RUSCOs because these two addresses are zoned as industrial, vacant land according to the Erie County Geographic Information Systems (GIS) Land Use database.

The results for the subsurface soil sampling are discussed below. Subsurface soil data are summarized and shown on Figure 6.1.

6.3.1 HERBICIDES AND PESTICIDES AND POLYCHLORINATED BIPHENYLS

Herbicides, pesticides, and PCBs were analyzed in nine of the 21 subsurface soil samples. The results are presented on Table 6.2. With the exception of 2,4,5-TP (Silvex), Part 375 does not have specific criteria to evaluate the detection of herbicides; however, no herbicides were detected in any of the samples.

A review of the pesticides data indicates that 4,4'dichlorodiphenyldichloroethylene (DDE) and 4,4'-dichlorodiphenyltrichloroethane (DDT) were detected in the sample collected from the 0 foot- to 2 foot- interval of the soil boring associated with monitoring well MW-14 located at 103 Harrison Street. The detected concentrations (0.0046 mg/kg DDE and 0.0035 mg/kg DDT) are below the Part 375 residential RUSCOs of 1.8 mg/kg DDE and 1.7 mg/kg DDT. This address is an occupied residential property. The detections of pesticides are most likely the result of a past use of pesticides by the owner/occupant. The same two compounds were also detected in the samples collected from the 0 foot- to 2 foot-interval at soil boring SB-18-08 installed at the vacant property located at 20 Hayes Place (0.0039 mg/kg DDE and 0.0038 mg/kg DDT). Since the property at 20 Hayes Place is zoned industrial, the pesticides results were compared to and found to be less than the Part 375 industrial RUSCOs of 120 mg/kg DDE and 94 mg/kg DDT. This property is currently used as a parking area. Since pesticides were not detected in any of the on-Site soil borings, the detections of pesticides at 20 Hayes Place and 103 Harrison Street are not the result of historic Site use or operations by Buffalo China.

PCBs were detected at SB-1-07 at a concentration of 0.03 mg/kg for Aroclor 1254, which is below the Part 375 industrial RUSCO of one mg/kg for total PCBs. None of the remaining eight subsurface soil samples analyzed for PCBs had detectable concentrations. SB-1-07 is located on the north side of the former Buffalo China facility near monitoring well MW-8. Since PCBs were not detected in any other location and SB-1-07 is adjacent to CSX railroad tracks, the detection of PCBs in the soil at this location was concluded to be a historical artifact associated with past railroad activities.

6.3.2 METALS

Twenty-four subsurface soil samples were analyzed either for lead only or for TAL metals (including lead) and cyanide. Metals were detected in all 24 subsurface soil samples. One exceedance of Part 375 industrial RUSCO for metals was observed for the sample collected from SB-8-07 located east of the Harrison Street Warehouse. Arsenic was detected in the soil sample from SB-8-07 at a concentration of 21.4 mg/kg, which exceeds the Part 375 industrial RUSCO of 16 mg/kg. Lead was detected in all of the samples; however, the lead concentrations were all below the applicable Part 375 RUSCOs. Metals results are presented on Table 6.3.

6.3.3 ORGANIC CHEMICAL COMPOUNDS

Analytical results for VOCs and SVOCs are presented on Tables 6.4 and 6.5, respectively. No VOCs were detected at concentrations exceeding applicable Part 375 RUSCOs in any of the subsurface soil samples. The primary VOC identified in the 2006 investigation was TCE at BH-5/MW-5 located near the northeast corner of the Harrison Street Warehouse. The concentration of TCE in soil at BH-5/MW-5 during the 2006 SSI was 670 mg/kg at 1.6 to 2.5 feet bgs (see Figure 3.1).

During this RI, TCE was detected at 14 soil boring locations, with concentrations ranging from 0.0017 mg/kg (estimated) to 9.7 mg/kg, all of which are all below the Part 375 industrial RUSCO for TCE of 400 mg/kg.

These 14 soil boring locations are all situated within 150 feet of BH-5/MW-5. The depths of these samples ranged from two feet to 10.4 feet bgs. Based on the shallow depth of the 2006 SSI detections, the absence of VOCs at concentrations that exceed the Part 375 industrial RUSCO, and the location of the boreholes relative to BH-5/MW-5, the TCE impacts within the overburden soil are present over a relatively small area surrounding BH-5/MW-5.

Other VOCs detected in the subsurface soil locations discussed above include cis-1,2-DCE, trans-1,2-dichloroethene (trans-1,2-DCE), 1,1-dichloroethene (1,1-DCE), ethylbenzene, toluene, vinyl chloride, and xylenes. There were no exceedances of Part 375 industrial RUSCOs for any of these compounds.

Several SVOCs were also detected in 11 of the 24 soil samples collected. Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenze(a,h)anthracene were detected above the Part 375 industrial RUSCO at boring SB-7-07 at concentrations that marginally exceed the Part 375 industrial RUSCOs. In addition, benzo(a)pyrene was also detected above the Part 375 industrial RUSOC at boring location SB-2-07 and in the soil sample collected during installation of MW-17. All other SVOC detections were less than the Part 375 industrial RUSCOs.

6.4 GROUNDWATER

Thirteen overburden monitoring wells and 15 bedrock monitoring wells were installed throughout the investigation. Four rounds of groundwater monitoring were completed. Sixty-nine groundwater samples have been collected and analyzed for the RI. Analytical results were compared to the standards listed in the NYSDEC Division of Technical and

Operational Guidance Series (TOGS) 1.1.1 "Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations" (June 1998). The results of the groundwater sampling are discussed in the following sections.

6.4.1 OVERBURDEN GROUNDWATER

6.4.1.1 HERBICIDES AND PESTICIDES AND POLYCHLORINATED BIPHENYLS

As part of the RI, two monitoring wells were recommended for sampling and analysis for herbicides, pesticides, and PCBs. As a result, monitoring wells MW-4 and MW-9 were sampled and analyzed for herbicides, pesticides, and PCBs. The sample results are presented on Table 6.6. No herbicides were detected in either sample. One pesticide, alpha-BHC, was detected at monitoring well MW-4 at a concentration of 0.021 µg/L, which is slightly greater than the NYSDEC Water Quality Standard of 0.01 µg/L. However, this concentration was qualified as an estimated value, and the results for the 2008 sampling round were non-detect.

PCBs were not detected in groundwater samples collected from MW-4 and MW-9.

6.4.1.2 METALS

Analytical results for metals are presented on Table 6.7. For the RI, groundwater samples were collected in 2007 and 2008 from monitoring wells MW-4 and MW-9 and analyzed for total and dissolved TAL metals. Concentrations of total iron, magnesium, manganese, and sodium were detected in both wells at concentrations that exceeded applicable groundwater quality standards or guidance values. Although there were exceedances for these specific metals, the concentrations were considered to be consistent with regional background groundwater concentrations for these parameters.

During the 2007 sampling event, antimony was detected at a concentration exceeding the groundwater quality standard of 3.0 µg/L in both wells. However, these detections were qualified as estimated concentrations. During the 2008 sampling event, antimony was not detected at both wells.

Thallium was also detected in 2007 at a concentration exceeding the groundwater guidance value of 0.5 µg/L for monitoring well MW-4. The concentration was qualified as estimated and, similar to antimony, thallium was not detected at MW-4 in the 2008 sampling round. Thallium was not detected at MW-9 in 2007; however, in 2008 it was

detected at an estimated concentration of 3.7 µg/L, which exceeds the groundwater guidance value of 0.5 µg/L.

Concentrations of dissolved magnesium and dissolved sodium were detected in wells MW-4 and MW-9 that exceeded applicable groundwater quality standards or guidance values for the 2007 and 2008 sampling events.

Dissolved manganese was detected at MW-4 at concentrations exceeding the groundwater quality standard for both rounds of sampling. Dissolved manganese was also detected at MW-9 for both rounds; however, the concentrations were less than the groundwater quality standard.

In addition to sampling monitoring wells MW-4 and MW-9 for TAL metals, seven other overburden wells (MW-5, MW-6, MW-8, MW-10, MW-11, MW-12, and MW-17) were also sampled and analyzed for total and dissolved lead.

During the 2007 sampling event, total lead was detected in groundwater samples collected form monitoring wells MW-4, MW-8, and MW-9 at concentrations exceeding the groundwater quality standard of 25 µg/L . In 2008, total lead was either not detected or was less than the groundwater quality standard at these wells. Between August 2007 and May 2008, the groundwater sampling techniques were improved by changing from purging with a pump and sampling with a bailer to low-flow purging and sampling techniques. The use of low-flow sampling techniques greatly reduces the agitation of groundwater samples and the resuspension of sediments that may be in the bottom of the well. Based on the reduced total lead results in 2008 and dissolved lead results which were non-detect for these three wells, it was concluded that the 2007 total lead groundwater results were biased high due to suspended solids.

The dissolved lead results were non-detect for all wells sampled for both rounds of sampling completed in August 2007 and May 2008.

Cyanide was analyzed in groundwater samples collected from MW-4 and MW-9. The NYSDEC groundwater quality standard for cyanide is 200 µg/L. Cyanide was detected at MW-4 and MW-9 at concentrations ranging from 2.4J µg/L to 6.4J µg/L; however, all detections were qualified as estimated values, and were less than the groundwater quality standard.

6.4.1.3 ORGANIC CHEMICAL COMPOUNDS

Analytical results for VOCs in overburden groundwater are presented on Table 6.8. Figure 6.2 summarizes VOC results that exceed applicable groundwater criteria for overburden groundwater monitoring wells. The most recent and comprehensive data set for VOCs in groundwater is from the July 2009 event. Although VOC results from all rounds are presented on Table 6.8, the results discussion focuses on the July 2009 data.

The results of the RI identified a VOC contaminant plume extending from MW-5 on the south side of the Harrison Street Warehouse south to MW-22 located at 82 Harrison Street. Exceedances of the standards for organic chemical compounds in groundwater were limited to eight VOCs: TCE, cis-1,2-DCE, trans-1,2-DCE, 1,1,2-trichloroethane, 1,2,4-trichlorbenzene, vinyl chloride, PCE, and toluene. The most frequent and consistent VOCs detected are TCE and TCE degradation compounds, most notably cis-1,2-DCE.

The TCE concentrations ranged from non-detect to 410,000 µg/L at MW-5 for the 2009 sampling event. Historically, TCE concentrations have ranged from non-detect to a high of 650,000 µg/L at MW-5. Cis-1,2-DCE concentrations range from non-detect to 310,000 µg/L at MW-5. Historically, cis-1,2-DCE concentrations have ranged from non-detect to 320,000 µg/L. Over the history of the RI, monitoring wells MW-5, MW-4, and MW-19 have exhibited the highest concentrations of these two compounds.

Consistent with the findings of the 2006 SSI groundwater sampling results, monitoring well MW-5 on the south side of the Harrison Street Warehouse had the highest concentrations of TCE and cis-1,2-DCE for all sampling rounds. Monitoring well MW-5 is considered to be within the source area for the groundwater plume. Overburden groundwater flow at the Site is to the west southwest towards and along Harrison Street. VOC concentrations in monitoring wells decrease moving away from MW-5 as shown on Figure 6.2. TCE and associated compounds were detected in wells MW-4, MW-6, MW-11, MW-12, MW-18, MW-19, MW-20, and MW-22. These wells are considered to be within the overburden groundwater plume. Figure 6.3 depicts the overburden groundwater plume based on the July 2009 TCE data.

In 2006, TCE and cis-1,2-DCE were detected at MW-8, which is located cross gradient to the east of the plume, at concentrations (31 µg/L and 8.5 µg/L respectively) above the groundwater quality standards of 5 µg/L. Subsequent sample results for both compounds were either non-detect or less than the groundwater quality criteria. TCE was also detected at MW-17 in May of 2008 at a concentration of 5.1 µg/L, which is

slightly above the groundwater quality standard of 5µg/L. Subsequent TCE results at MW-17 were less than the standard or non-detect.

There were no groundwater quality exceedances for any VOC parameters at monitoring well MW-9, which is upgradient of the plume, MW-10 which is cross gradient to the west of the plume, or MW-7, which is cross gradient to the south of the plume.

There were two SVOCs, specifically benzo(a)anthracene and benzo(b)fluoranthene that were detected in exceedance of the water quality standards. The exceedances occurred in a field duplicate groundwater sample collected from MW-4 during the 2007 sampling event. Benzo(a)anthracene and benzo(b)fluoranthene were both detected at values slightly above the guidance values of 0.002 µg/L; however, both results were qualified as estimated concentrations and the results from the 2007 original sample and the 2008 sample were non-detect. No other exceedances for SVOCs were observed in the groundwater samples. Sample results for SVOCs in overburden groundwater are presented on Table 6.9.

6.4.2 BEDROCK GROUNDWATER

Based on the findings of the overburden groundwater sampling, 15 bedrock monitoring wells were installed between December 2008 and June 2009 and were sampled as part of the July 2009 sampling event. The bedrock wells were sampled for analysis of TCL VOCs. Bedrock groundwater results are presented on Table 6.10 and summarized on Figure 6.4.

6.4.2.1 ORGANIC CHEMICAL COMPOUNDS

Similar to the overburden results, the bedrock sampling results indicate the presence of a contaminant plume. VOC impacts were identified at concentrations exceeding NYS groundwater standards at 8 of the 15 bedrock monitoring wells. These wells include MW-5A, MW-6A, MW-13A, MW-14A, MW-18A, MW-19A, MW-20A, and MW-21A. Eight VOCs: TCE, cis-1,2-DCE, trans-1,2-DCE, 1,1-DCE, 1,2-dichloroethane, vinyl chloride, PCE, and toluene were detected at concentrations exceeding NYS groundwater standards. The most frequent and consistent VOCs detected are TCE and TCE degradation compounds, most notably cis-1,2-DCE.

TCE was detected at monitoring wells MW-5A, MW-13A, MW-14A and MW-18A through MW-21A at concentrations ranging from 190 µg/L at MW-14A to 39,000 µg/L

at MW-13A during the July 2009 monitoring event. Cis-1,2-DCE was detected at the same wells and monitoring well MW-6A at concentrations ranging from 30 µg/L at MW-6A to 42,000 µg/L at MW-13A. Figure 6.5 depicts the bedrock groundwater plume based on the July 2009 TCE data.

6.5 SOIL VAPOR INTRUSION INVESTIGATION EVALUATION

The purpose of the soil vapor intrusion investigation was to evaluate the potential for risks to human health due to the presence of chlorinated VOCs in groundwater at the Site, which have the potential to impact indoor air and sub-slab soil vapor at the adjacent and downgradient properties. The sample locations were chosen based on groundwater concentrations and groundwater flow direction.

Analytical data collected during the SVI investigation were validated to demonstrate the usability of the data to support the conclusions of the RI. The sub-slab soil vapor, indoor air, and outdoor air data are presented on Table 6.11.

The NYSDOH SVI Guidance document provides general guidelines for the collection of vapor samples and for the evaluation of the resulting laboratory data. The NYSDOH guidelines focus on seven primary chemicals when evaluating the laboratory data and the application of the laboratory results of those chemicals to two decision matrices provided in the guideline. Of the seven primary chemicals, six were detected in the subsurface soils at the Site and are presented in the table below along with the corresponding NYSDOH decision matrix.

Chemical	*Soil Vapor & Indoor Air Matrix*
• Trichloroethene	• Matrix 1
• 1,1,1-Trichloroethane	• Matrix 2
• Tetrachloroethene	• Matrix 2
• cis-1,2-Dichloroethene	• Matrix 2
• Carbon tetrachloride	• Matrix 1
• Vinyl Chloride	• Matrix 1
• 1,1-Dichloroethene	• Matrix 2

The concentrations of the above chemicals in both sub-slab soil vapor and indoor air are applied to the matrix to determine the appropriate response action. The possible response scenarios are: 1) No further action; 2) Take reasonable and practical actions to

identify sources(s) and reduce exposures; 3) Monitor; 4) Mitigate; and 5) Monitor/mitigate.

SVI investigation samples were analyzed for a wide range of parameters, which included the seven chemicals listed above. The laboratory results for these chemicals were applied to the decision matrices to determine the appropriate action.

The results of the comparisons to the NYSDOH matrices are presented in the following table:

	Address Along Harrison Street			
	82	***103***	***127***	***138***
Trichloroethene	●	●	**x**	●
1,1,1-Trichloroethane	○	○	○	○
Tetrachloroethene	○	○	**x**	○
cis-1,2-Dichloroethene	○	○	**x**	○
Carbon tetrachloride	●	●	●	●
Vinyl Chloride	○	○	○	○
1,1-Dichloroethene	○	○	□	○

Notes:

○: No further action

●: Take reasonable and practical actions to identify source(s) and reduce exposures

□: Monitor

■: Monitor/mitigate

x: Mitigate

Based on the evaluation of the data against the NYSDOH decision matrices, it was concluded that no further action such as monitoring or mitigation is warranted at 82, 103, and 138 Harrison Street.

However, an evaluation of the soil vapor data collected from 127 Harrison Street against the NYSDOH decision matrices indicated that mitigation is necessary to address the presence of elevated VOC vapors beneath the building's basement sub-slab.

7.0 QUALITATIVE HUMAN HEALTH EXPOSURE ASSESSMENT

7.1 GENERAL

A qualitative human health exposure assessment for the former Buffalo China Site has been prepared in accordance with the requirements of Draft DER-10 Technical Guidance for Site Investigation and Remediation, Appendix 3B, December 2002, and U.S. EPA risk assessment guidance, and is presented in the following subsections.

7.2 SITE CHARACTERIZATION

7.2.1 SITE DESCRIPTION

A description of the Site and history is presented in Section 2.1 and Figures 1.2 and 2.1 present the Site location and layout, respectively.

Briefly, the Site is located at 51 Hayes Place in Buffalo, New York. The Site comprises approximately 10 acres and is bounded on the north by Conrail railroad tracks, on the east by the adjoining Robinson Home Products Warehouse and other commercial/industrial facilities, and on the south and west by commercial, industrial, and residential properties. Interstate Highway I-190 is located nearby to the south of the Site, while the former City of Buffalo School 26 and adjacent playground is located a few hundred feet to the southwest. The nearest water body is the Buffalo River, located approximately 1/4 to 1/2 mile south and east of the Site.

7.2.2 GENERAL SITE USE

The Site includes a manufacturing building, a warehouse, outdoor storage silos, a rail spur, roadways, and parking areas. The manufacturing building is a multi-story structure covering approximately 4 acres. This building is connected to the Robinson Home Products Warehouse to the east. Another smaller building referred to as the Harrison Street warehouse is located on the northwest end of the Site, and covers an area of approximately 0.5 acres. The property has been used for the manufacture of china for the past 100 plus years.

7.2.3 PREVIOUS INVESTIGATIONS

Previous environmental investigations conducted at the Site are discussed in Section 3.0. A brief summary of the Supplemental Site Investigation (SSI) (CRA, 2006), which is discussed in Sections 3.1 and 3.2, follows.

Seventeen soil borings were advanced and six groundwater monitoring wells (MW-4 through MW-9) were installed as part of the SSI. During the investigation, a total of 32 soil samples were collected from the 17 boring locations along with groundwater samples from three existing and six new monitoring wells. The soil samples were analyzed for VOCs, SVOCs, and lead. The groundwater samples were analyzed for VOCs, SVOCs, total lead and dissolved lead. In the 2006 SSI, analytical test results for soils were compared to the proposed Soil Cleanup Objectives (SCO) in the draft 6 NYCRR Part 375 dated November 2005. Groundwater concentrations were compared to drinking water standards and guidance values.

The SSI report documented that surface and subsurface soils contained concentrations of lead, VOCs, and SVOCs at certain sample locations greater than the unrestricted Site use criteria presented as part of the proposed Soil Cleanup Objectives (SCO) in the draft 6 NYCRR Part 375 dated November 2005.

The SSI report also documented that groundwater contained TCE, cis-1,2-DCE, and vinyl chloride at concentrations exceeding groundwater standards in the area between the former Buffalo China manufacturing building and the Harrison Street warehouse. These groundwater impacts appeared to extend from the vicinity of MW-5, toward the Site boundary at MW-6. Based on the direction of groundwater flow, the impacted groundwater at MW-6 was thought to extend off-Site in a southerly direction. Groundwater sampling results at MW-8, located on the northern side of the former Buffalo China manufacturing building indicated the presence of TCE and cis-1,2-DCE at concentrations exceeding groundwater standards. Lead (total) was detected at MW-8, but was not detected in the dissolved sample analysis.

7.2.4 BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION

As described in Sections 4.0 and 6.0, additional environmental investigation activities were conducted at the Site to future characterize chemical impacts attributable to former Buffalo China operations in on-Site and off-Site soil, groundwater, and other potentially affected media. The investigation focused on areas identified in the 2006 SSI with chemical concentrations that exceeded applicable criteria. Besides additional

characterization of potential impacts, the intent of the investigations was also to identify and evaluate necessary and appropriate remedial alternatives. A discussion of the investigation and results is presented in Sections 4.0 through 6.0. A summary is included in the following sections.

7.2.4.1 SURFACE SOIL SAMPLING

Fifty-two surface soil samples were collected at 25 locations in May 2008 and August 2008 as part of the RI to evaluate lead concentrations in on-Site and off-Site surface soils. Samples were collected at two sampling depths, 0 to 2-inches bgs and 2 to 4-inches bgs. All samples were tested for lead while samples from locations SS-10, SS-17, SS-18, SS-20, SS-24, and SS-25 were also analyzed for TAL metals. Sample results were compared to the Part 375 RUSCOs. On-Site samples were compared to RUSCOs for industrial use and off-Site samples were compared to RUSCOs for residential use unless otherwise noted. Surface soil sample locations are presented in Figure 4.1.

The maximum detected concentration of lead in on-Site samples from either the 0-2 inch or 2-4 inch depths was 2,090 mg/kg. This concentration, which was detected in the 2-4 inch samples at location SS-1, is below the industrial RUSCO for lead of 3,900 mg/kg. In addition, surface soil samples collected off-Site at 20 Hayes Place (location SS-14) and 34 Hayes Place (locations SS-12 and SS-13) were also compared to RUSCOs for industrial use because these two addresses are zoned as industrial vacant land according to the Erie County GIS Land Use database. The maximum concentration of lead detected in surface soil samples from either 20 or 34 Hayes Place was 148 mg/kg, which is below the RUSCO for industrial use of 3,900 mg/kg.

The maximum detected concentration of lead at off-Site residential or recreational locations from either the 0-2 inch or 2-4 inch depths was 632 mg/kg. This concentration was detected in the front yard at a residential property located at location SS-8 from 2 to 4 inches bgs, and it exceeds the residential RUSCO for lead of 400 mg/kg. However, the lead concentration in three of the four surface soil samples collected from the property was below the residential RUSCO for lead. The concentration of lead from either 0-2 in or 2-4 in depths in the remaining off-Site samples were all below the residential RUSCO for lead of 400 mg/kg. With the concurrence of the NYSDOH and NYSDEC, the property owners were notified of the results, and no further action is warranted or proposed with regards to off-Site surface soils.

Concentrations of remaining analytes were all below available restricted use residential RUSCOs.

7.2.4.2 SUBSURFACE SOIL SAMPLING

A total of 37 subsurface soil samples, including four blind field duplicates, were collected from 33 locations both on-Site and off-Site to further characterize subsurface impacts identified during the 2006 SSI. Soil borings and subsurface soil sample collection activities were completed between July 2007 and June 2009. Subsurface sample locations are shown on Figure 4.2.

All samples were analyzed for TCL VOCs, 24 samples were analyzed for TCL SVOCs and lead, and nine samples were also analyzed for an expanded parameter list including TAL metals and cyanide, PCBs, pesticides and herbicides. Results for subsurface soil samples collected on-Site were compared to RUSCOs for industrial use as were results for samples collected from 20 Hayes Place and 34 Hayes Place. As noted previously, these latter two addresses are zoned as industrial vacant land according to the Erie County GIS Land Use database. Results for subsurface soil samples collected from 82 Harrison Street, 103 Harrison Street and 141 Milton Street were compared to RUSCOs for restricted residential use.

The maximum detected concentration of arsenic and four PAHs (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenz(a,h)anthracene) in on-Site subsurface soils exceeded their respective industrial RUSCO. These concentrations and locations were as follows:

Constituent	*6 NYCRR Part 375-6.8(b): Industrial RSCO (mg/kg)*	*Max. Detected Conc. (mg/kg)*	*Sample*	*Location*
Benzo(a)anthracene	11	15	*SB-7-07*	East of Harrison St. Warehouse
Benzo(a)pyrene	1.1	14	*SB-7-07*	East of Harrison St. Warehouse
Benzo(b)fluoranthene	11	17	*SB-7-07*	East of Harrison St. Warehouse
Dibenz(a,h)anthracene	1.1	2.4	*SB-7-07*	East of Harrison St. Warehouse
Arsenic	16	21.4	*SB-8-07*	East of Harrison St. Warehouse

In addition, as noted above, a subsurface soil sample was also collected from the core of MW-17, which was installed at 34 Hayes Place. Analytical test results for this sample were also compared to RUSCOs for industrial use. The maximum concentration of benzo(a)pyrene from the core of MW-17 (2.8 mg/kg) slightly exceeded the SCO for restricted industrial use of 1.1 mg/kg. However, it should be noted that 34 Hayes Place is a vacant parcel partially covered by grass and partially covered by gravel. Portions of 34 Hayes Place and the adjoining property are used as parking areas. As such, it is

likely that the exceedance is due to impacts from automobiles rather than historical plant operations. No other exceedances were noted.

With respect to off-Site subsurface soil samples collected at 82 Harrison Street, 103 Harrison Street, and 141 Milton Street, maximum detected concentrations of VOCs, SVOCs, PCBs, pesticides, herbicides and metals were all below their respective restricted use residential RUSCOs.

7.2.4.3 GROUNDWATER SAMPLING

A total of 13 new overburden and 15 bedrock groundwater monitoring wells were installed as part of the RI to evaluate groundwater conditions both on- and off-Site. Monitoring wells were installed between July 2007 and June 2009. Monitoring well locations are shown on Figure 4.3.

Analytical results were compared to the New York State groundwater standards.

With respect to on-Site monitoring wells, maximum concentrations for 12 VOCs, two SVOCs, one pesticide, and seven metals exceeded NYS groundwater standards or guidance values in either overburden wells, bedrock wells or both. The following table presents these constituents.

Constituent	*NYS Water Quality Standard or Guidance Value (µg/L)*	*Max. Detected Concentration (µg/L)*	*Monitoring Well*
Volatile Organic Compounds			
1,1,2-Trichloroethane	1	9800	***MW-5***
1,1-Dichloroethene	5	40	***MW-5A***
1,2,4-Trichlorobenzene	5	15	***MW-6***
1,2-Dichloroethane	1	320	***MW-5A***
Acetone	50	280	***MW-5A***
cis-1,2-Dichloroethene	5	320000	***MW-5***
Methylene chloride	5	240	***MW-5A***
Tetrachloroethene	5	710	***MW-12***
Toluene	5	96000	***MW-5***
trans-1,2-Dichloroethene	5	350	***MW-13A***
Trichloroethene	5	560000	***MW-5***
Vinyl chloride	2	910	***MW-12***
Semivolatile Organic Compounds			
Benzo(a)anthracene	0.002	0.84	***MW-4***
Benzo(b)fluoranthene	0.002	0.81	***MW-4***
Pesticides			
alpha-BHC	0.01	0.021	***MW-4***
Metals			
Antimony	3	7.50	***MW-9***
Iron	300	14300	***MW-9***
Lead	25	57	***MW-4***
Magnesium	35000	58500	***MW-9***
Manganese	300	915	***MW-4***
Sodium	20000	173000	***MW-4***
Thallium	0.5	5.0	***MW-4***
Metals (Dissolved)			
Antimony (Dissolved)	3	3.3	***MW-9***
Iron (Dissolved)	300	620	***MW-9***
Magnesium (Dissolved)	35000	44700	***MW-9***
Manganese (Dissolved)	300	799	***MW-4***
Sodium (Dissolved)	20000	193000	***MW-4***

It should be noted, however, that a number of these concentrations reflect estimated values, and results in subsequent sampling rounds were non-detect. These include benzo(a)anthracene, benzo(b)fluoranthene, alpha-BHC, antimony, and antimony (dissolved). As such, these analytes were not considered further in this assessment.

A total of 14 monitoring wells, eight overburden, and six bedrock were installed at off-Site locations to determine if VOC impacts were migrating off-Site. Monitoring well locations are shown on Figure 4.3. Maximum detected concentrations of cis-1,2-dichloroethene and TCE exceeded the groundwater standard of 5 µg/L for each constituent at MW-11, MW-14A, and MW-22. Maximum concentrations of both analytes were observed in MW-11 (3,500 µg/L for cis-1,2-dichloroethene and 1,700 µg/L for TCE). The concentration of TCE in MW-17 (5.1 µg/L) and MW-22 (30 µg/L) also exceeded the groundwater standard of 5.0 µg/L

7.2.4.4 SOIL VAPOR INTRUSION INVESTIGATION

To investigate the potential for intrusion of vapors from subsurface sources into building structures at off-Site locations, a Soil Vapor Intrusion (SVI) investigation was completed in November 2009. The investigation was conducted in accordance with NYSDOH's SVI Guidance.

The SVI investigation included the collection of five sub-slab soil vapor samples, five indoor air samples, and two outdoor air samples. SVI investigation sample locations are presented in Figure 4.4.

Indoor air concentrations were compared to ambient (upwind) concentrations and exceedances were compared to the soil vapor/indoor air decision matrices presented in NSDOH (2006). Currently, matrices are available for the following constituents:

Volatile Chemical	*Matrix*
Carbon tetrachloride	Matrix 1
1,1-Dichloroethene	Matrix 2
cis-1,2-Dichloroethene	Matrix 2
Tetrachloroethene	Matrix 2
1,1,1-Trichloroethane	Matrix 2
Trichloroethene	Matrix 1
Vinyl chloride	Matrix 1

In addition to indoor air samples, sub-slab air samples were also collected. Sub-slab samples are used to determine whether subsurface impacts are the potential source of indoor air concentrations.

Test results at one location, specifically 127 Harrison Street, identified elevated concentrations of VOCs in the sub-slab soil vapor sample and the indoor air sample. The NYSDOH decision matrices dictate that mitigation measures are necessary to address the measured VOC concentrations at 127 Harrison Street.

While the indoor air concentration of TCE exceeds the NYSDOH indoor air concentration at 103 Harrison Street, the subslab concentration is approximately two orders of magnitude lower, indicating that the subsurface is not the source of the indoor air impact. Although methylene chloride is not included in the NYSDOH decision matrices, the NYSDOH has developed an indoor air guideline concentration of 60 $\mu g/m^3$. The indoor air concentration for methylene chloride (150 $\mu g/m^3$) at 103 Harrison Street exceeds this guideline. However, the subslab concentration was only 0.69 $\mu g/m^3$ indicating the subsurface was not the source of the indoor air impact. A review of the building inventory records indicates that the owner stores paint and paint-related products in the basement area which were present during the collection of indoor air sample. Therefore, although elevated VOCs were identified in the indoor air sample, but not in the sub-slab sample, it was concluded that the results were related to household items within the building and that no further action was warranted at the location.

The test results for 82 and 138 Harrison Street indicated non-detect to low-level detections of VOCs beneath the sub-slab and indoor air. The results were consistent with the VOCs detected in the ambient upwind sample. A comparison of the data for 82 and 138 Harrison Street to the NYSDOH decision matrices indicated that no further actions were warranted.

7.3 CONCEPTUAL SITE MODEL

In order to evaluate the significance of the impacted media at the Site, the potential pathways by which individuals may come in contact with these media must be determined. The combination of factors (chemical source, media of concern, release mechanisms, and potential receptors) that could produce a complete exposure pathway and lead to human uptake of chemicals is assessed in what is defined as the Conceptual Site Model (CSM).

Based on the current land use and the anticipated future land use of the Site the following potential receptors, as summarized in the CSM presented in Table 7.1, may be exposed to on-Site media:

- Trespasser (current/future)
- Industrial Worker (current/future)
- Construction Worker (future)

Impacted media at the Site include surface soil, subsurface soil, and groundwater. Air is also considered an impacted medium due to the potential release of vapors from soil and groundwater to ambient and/or indoor air. Groundwater beneath the Site is not currently used as potable drinking water source. The potable water for the Site and the surrounding area is currently supplied by a municipal source and this is expected to continue. However, groundwater may be encountered by a construction/utility worker during ground intrusive activities. Ingestion, dermal contact, and inhalation are the potential routes of exposure. All of these factors are evaluated in the CSM.

In addition, off-Site receptors may be exposed to contaminants that have migrated. Potential receptors, which are summarized in the CSM presented in Table 7.2, include the following:

- Adult resident (current/future)
- Child resident (current/future)
- Trespasser (current/future)
- Industrial Worker (current/future)
- Construction Worker (future)

Impacted media at specific off-Site locations, i.e., 127 Harrison Street includes indoor air. Groundwater at MW-11 and MW-14A is impacted with cis-1,2-dichloroethene and TCE. Although groundwater immediately off-Site is not currently used as potable drinking water source, groundwater may be encountered by a construction/utility worker during ground intrusive activities. Ingestion, dermal contact, and inhalation are the potential routes of exposure. All of these factors are evaluated in the CSM.

7.3.1 SELECTION OF CHEMICAL OF POTENTIAL CONCERN (COPC)

This section presents the process for establishing chemicals of potential concern (COPCs) for the Site. COPCs are chemicals related to the Site, which pose the potential for public health risk. In general, detected chemicals are identified as COPCs based upon their concentrations and known toxicity characteristics.

The selection of COPCs for each medium was completed using a screening process involving a comparison of the maximum detected concentration of each contaminant in a specific medium to a risk-based concentration associated with target risks and conservative default exposure assumptions.

Soil Cleanup Objectives (SCO) for restricted residential use and industrial use presented in the 6 NYCRR Part 375, effective December 14, 2006, were used to identify COPCs in soil. As stated in Part 375-1.1, the RUSCOs are intended to be applicable to all remedial programs for inactive hazardous waste disposal sites, remedial programs for brownfield sites, and/or remedial programs for environmental restoration projects.

COPCs in groundwater were identified based on a comparison to Ambient Water Quality Standards and Groundwater Effluent Limitations from NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1.

In addition, COPCs in indoor air were identified based on a comparison to NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York dated October 2006.

On-Site Surface Soil

The on-Site surface soil screening criteria were RUSCOs for restricted industrial use from the 6 NYCRR Part 375, effective December 14, 2006 (based on the ingestion, dermal contact, and inhalation exposure pathways). There were no exceedances of RUSCOs for industrial use involving samples collected from 2007 through 2009.

On-Site Subsurface Soil

The on-Site subsurface soil screening criteria were RUSCOs for industrial use from 6 NYCRR Part 375 (based on the ingestion, dermal contact, and inhalation exposure pathways). As indicated in Section 7.2.4.2, maximum detected concentrations of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene dibenz(a,h)anthracene, and arsenic exceeded RUSCOs for restricted industrial use. Samples from a total of 18 on-Site locations were analyzed for SVOCs. These maximum detections were at one location. Benzo(a)pyrene was also detected at one location on the Soil Mound and at 34 Hayes Place. All other SVOC results were below applicable criteria.

On-Site Soil-to-Indoor Air

Currently, no NYSDOH screening criteria are available for migration of vapors from soil-to-indoor air. However, few VOCs were detected in surface or subsurface soils. Moreover, detected concentrations were all quite low, i.e., below restricted residential use RUSCOs. Nevertheless, all detected VOCs in the vicinity of the Harrison Street Warehouse were identified as COPCs for the on-Site soil-to-indoor air pathway. These

VOCs were acetone, cis-and trans-1,2-dichloroethene, methyl ethyl ketone, tetrachloroethene, toluene, trichloroethene and vinyl chloride.

On-Site Groundwater

The on-Site groundwater screening criteria were the NYSDOH maximum contaminant levels (MCLs) for public water systems (based on the ingestion exposure pathway); Ambient Water Quality Standards and Groundwater Effluent Limitations from NYSDEC Division of Water Technical and Operational Guidance Series. As presented in Section 7.2.4.3, the maximum detected concentration of 27 constituents exceeded screening criteria including 12 VOCs, 2 SVOCs, one pesticide, and seven metals. As noted previously, a number of these concentrations were estimated values, and results in subsequent sampling rounds were non-detect. Included were benzo(a)anthracene, benzo(b)fluoranthene, alpha-BHC, antimony, and antimony (dissolved). As such, these analytes were not considered COPCs. The remaining 12 VOCs and six metals discussed in section 7.2.4.3 are identified as on-Site groundwater COPCs. However, since the Site groundwater is not used for potable supply this comparison to drinking water criteria is very conservative.

On-Site Groundwater –to-Indoor Air

Currently, no NYSDOH screening criteria are available for migration of vapors from groundwater-to-indoor air. Therefore, overburden groundwater VOCs with maximum detected concentrations that exceeded groundwater screening criteria were identified as on-Site groundwater –to-indoor air COPCs because these maximum concentrations were located in the vicinity of the Harrison Street Warehouse. These COPCs were cis- and trans-1,2-dichloroethene, tetrachloroethene, toluene, 1,2,4-trichlorobenzene, 1,1,2-trichloroethane, trichloroethene and vinyl chloride.

Off-Site Surface Soil

No COPCs in off-Site subsurface soils were identified because the maximum detected concentrations of VOCs, SVOCs, PCBs, pesticides, herbicides and metals were all below their respective restricted use residential RUSCOs except for lead. The maximum detected concentration of lead at off-Site residential or recreational surface soils of 632 mg/kg in one sample from 127 Harrison Street exceeded the restricted use residential SCO for lead of 400 mg/kg. However, the lead concentration in three other surface soil samples collected from 127 Harrison Street was below the restricted use residential SCO for lead. The concentration of lead from either 0-2 in or 2-4 in depths in the remaining off-Site samples were all below the restricted use residential SCO for lead of 400 mg/kg.

With the concurrence of the NYSDOH and NYSDEC, no further action is contemplated with regards to off-Site surface soils.

Thus, lead in off-Site surface soils was not identified as a COPC.

Off-Site Subsurface Soil

No COPCs in off-Site subsurface soils were identified because the maximum detected concentrations of VOCs, SVOCs, PCBs, pesticides, herbicides and metals were all below their respective restricted use residential RUSCOs.

Off-Site Groundwater

The off-Site groundwater screening criteria were the NYSDOH maximum contaminant levels (MCLs) for public water systems (based on the ingestion exposure pathway); Ambient Water Quality Standards and Groundwater Effluent Limitations from NYSDEC Division of Water Technical and Operational Guidance Series.

The maximum detected concentrations of cis-1,2-dichloroethene and TCE in off-Site monitoring wells exceeded the residential groundwater screening value of 5 µg/L for each constituent. Maximum concentrations of both analytes were observed in MW-14A and were 140 µg/L for cis-1,2-dichloroethene and 190 µg/L for TCE. The concentration of TCE in MW-17 (5.1 µg/L) and MW-22 (30 µg/L) also exceeded the groundwater standard of 5.0 µg/L. Therefore, cis-1,2-dichloroethene and TCE are considered off-Site groundwater COPCs.

Off-Site Indoor Air

Indoor air and subslab vapor concentrations collected at off-Site locations were evaluated according to matrices included in the NYSDOH (2006).

Test results at one location (127 Harrison Street) identified elevated concentrations of VOCs in the subslab soil vapor sample and the indoor air sample. The matrices dictate that mitigation measures are necessary to address the measured VOC concentrations at 127 Harrison Street.

7.3.2 EXPOSURE ASSESSMENT

Exposure is defined as the contact of a receptor (i.e., person) with a chemical or physical agent. The exposure assessment is an estimate of the magnitude, frequency, and duration of exposure for each potential exposure route. An exposure assessment provides a systematic analysis of the potential exposure mechanisms by which a receptor may be exposed to chemical or physical agents at or originating from a study area. The objectives of an exposure assessment are as follows:

1. Characterization of exposure setting
2. Identification of potential exposure pathways
3. Quantification of exposure

The qualitative human health exposure assessment addresses the first two objectives. The quantification of exposure is addressed in subsequent stages of the Human Health Risk Assessment (HHRA), as required.

7.3.3 CHARACTERIZATION OF EXPOSURE SETTING

As part of the assessment process, potential exposure pathways are determined through an evaluation of the physical setting of the Site and the potentially exposed populations. A brief description of the physical setting of the Site is presented in Section 7.2.1. The consideration of Site-specific factors related to land usage is important in the development of realistic exposure scenarios and quantification of risks and hazards. The current and future potential land uses that are reasonably expected for the Site determine which populations may potentially be exposed. The Site land uses are discussed below.

Current Land Use

The Site is currently occupied by Niagara Ceramics and is used for manufacture of ceramic products. The current potentially exposed population includes Site (industrial) workers, and persons who may trespass onto the Site.

The Site is bounded on the south and west by commercial, industrial, residential and recreational properties, on the north by Conrail railroad tracks, and on the east by the adjoining Robinson Home Products Warehouse and other commercial/industrial facilities. The current potentially exposed populations include residents, industrial workers, and persons who may trespass onto off-Site commercial/industrial properties.

Future Land Use

It is reasonable to assume that the Site will remain under the current land use for the foreseeable future. Future maintenance or construction activities on the Site may necessitate some below-grade excavation. The future potentially exposed populations include Site (industrial) workers, construction/utility workers, and persons who may trespass onto the Site.

It is also reasonable to assume that properties adjoining the Site will remain under the current land use for the foreseeable future. Future off-Site maintenance or construction activities may necessitate some below-grade excavation. The future potentially exposed populations include residents, industrial workers, construction/utility workers, and persons who may trespass onto off-Site commercial/industrial properties.

7.3.4 IDENTIFICATION OF POTENTIAL EXPOSURE PATHWAYS

An exposure pathway describes the means by which an individual may be exposed to contaminants originating from a site[1]. An exposure pathway is complete (i.e., it could result in a receptor contacting a COPC) if the following elements are present:

1. A source or a release from a source (e.g., COPCs released to soil due to historical releases during plant operations).
2. A probable environmental migration route of a Site-related COPC (e.g., leaching or partitioning from one medium to another).
3. An exposure point where a receptor may come in contact with a Site-related COPC (e.g., surface and subsurface soil).
4. A route by which a Site-related COPC may enter a potential receptor's body (e.g., ingestion, dermal contact, or inhalation).
5. A receptor population which is potentially exposed.

If any of these elements are not present, the exposure pathway is considered incomplete and does not contribute to the total exposure from the Site.

[1] As described in Draft DER-10, Appendix 3B, an exposure pathway has five elements: (1) a contaminant source; (2) contaminant release and transport mechanisms; (3) a point of exposure; (4) a route of exposure; and (5) a receptor population.

The first element, a source or release from a source, is satisfied at the Site, as previously indicated in Section 7.2. The remaining elements are described in the following subsections.

7.3.4.1 FATE AND TRANSPORT IN RECEIVING MEDIA

Many complex factors control the partitioning of a COPC in the environment, thus measured concentrations only represent Site conditions at a discrete point in time. An understanding of the general fate and transport characteristics of the COPCs is important when predicting future exposure, linking sources with currently contaminated media, and identifying potentially complete exposure pathways to Site media. Therefore, the fate and transport analysis conducted at this stage of the exposure assessment is not intended to provide a quantitative evaluation of media-specific COPC concentrations; it is meant to identify media that are likely to receive Site-related COPCs.

The concentration and distribution of COPCs in the environment are constantly subject to change due to dispersal by wind and water, and chemical and biological degradation by microorganisms. Once released to the environment, COPCs can partition between air, water, sediment, soil, and biota, and be subsequently subjected to one or more of the following processes:

1. Transportation (e.g., convection by wind or water).
2. Physical transformation (e.g., volatilization, precipitation).
3. Chemical transformation (e.g., photolysis, hydrolysis, oxidation, reduction).
4. Biological transformation (e.g., biodegradation, metabolization by plants or animals).
5. Accumulation in one or more media.

Several transport mechanisms, such as advection and dispersion, are controlled primarily by the physical characteristics of the Site, and thus are essentially the same for all COPCs. However, other transport and transformation processes, such as volatilization, sorption, and biodegradation, depend on certain physical and chemical properties and, therefore, vary for each COPC.

The following section provides a fate and transport evaluation to determine the relative significance of the release sources and mechanisms.

7.3.4.1.1 POTENTIAL MIGRATION OF SOIL OR GROUNDWATER COPCs TO AIR

During ground intrusive activity, such as excavating soil for utility trenching or general construction, volatile COPCs could volatilize into ambient air and be inhaled by a construction/utility worker. Also, COPCs that adhere to soil particles, such as metals, may become suspended in the air column and could also be inhaled by the construction/utility worker. During potential future excavation activities, groundwater may accumulate or pool in the bottom of the excavation, therefore direct contact with groundwater by a construction/utility worker would be considered to be a complete exposure pathway both on-Site and off-Site.

COPCs present in surface soil can volatilize or adhere to soil particles and could be inhaled. Potential on-Site receptors would include a trespasser and an industrial worker, and potential off-Site receptors would include adult and child residents, a trespasser and an industrial worker.

Volatile COPCs in soil and groundwater may volatilize and migrate into the indoor air of a building constructed over impacted soil and groundwater. Thus, exposure to indoor air concentrations resulting from soil and groundwater impacts is a potentially complete on-Site exposure pathway for the industrial worker, and off-Site for adult and child residents and industrial workers.

7.3.4.2 POTENTIAL EXPOSURE POINTS

After contaminated or potentially contaminated media have been identified, the exposure points are determined by identifying whether or not the potentially exposed population can contact these media.

Exposure pathways for COPCs present in undisturbed soils are potentially complete, where soils are not under pavement. For construction workers, exposure pathways to COPCs in both soils and groundwater are potentially complete.

The indoor air exposure pathway for COPCs present in groundwater and soils are potentially complete where these impacts occur in close proximity to existing buildings.

The exposure pathway for ambient air inhalation of volatile chemicals from impacted groundwater is potentially complete. However, groundwater-to-ambient air exposures

are generally considered *de minimis* as volatile chemicals are significantly diluted upon release to ambient air.

7.3.4.3 POTENTIAL EXPOSURE ROUTES

Potential exposure routes are identified by: i) determining the COPC sources and receiving media, ii) analyzing the movement of the COPCs from the source, and iii) determining the possible exposure points.

Humans can be exposed to a variety of contaminated media, including soil, groundwater, surface water, sediment, air, and biota that has contact with other contaminated media. Based on the physical conditions of the Site and off-Site locations, potential exposure routes associated with soil include incidental ingestion, direct dermal contact, and inhalation (airborne particulate and/or vapors). Potential exposure routes associated with groundwater include incidental ingestion, direct dermal contact, and inhalation (vapors).

7.3.4.4 EXPOSURE SCENARIOS AND COMPLETED EXPOSURE PATHWAYS

Based on an understanding of the components of an exposure pathway and the current/future conditions of the Site, potential human exposure pathways were identified in the assessment. The potential human populations considered relevant to the assessment include the following:

On-Site: industrial workers, workers involved in general construction activities or utility excavations, and trespassers, and

Off-Site: child and adult residents, industrial workers, workers involved in general construction activities or utility excavations, and trespassers.

Based on these assumptions and the results of the media-specific screening presented in Section 7.2, the identified exposure scenarios and pathways are summarized in the Conceptual Site Model (CSM) shown in Tables 7.1 and 7.2. The CSM presents a summary of the exposure media, exposure pathways, exposure routes, and exposed receptors considered in this assessment. The following media and potential human exposures (i.e., complete pathways) have been identified:

On-Site Exposure Pathways:

1. On-Site Surface Soil – Current/Future Condition:
    - Dermal contact with surface soil by trespassers and industrial workers
    - Incidental ingestion of surface soil by trespassers and industrial workers
    - Inhalation of airborne particulate and vapors originating from surface soil by trespassers and industrial worker
2. On-Site Soil – Current/Future Condition:
    - Inhalation of vapors in indoor air originating from soil by industrial workers
3. On-Site Soil – Future Condition:
    - Dermal contact with soil by construction/utility workers
    - Incidental ingestion of soil by construction/utility workers
    - Inhalation of airborne particulate and vapors originating from soil by construction/utility workers
4. On-Site Groundwater – Current/Future Condition:
    - Inhalation of vapors in indoor air originating from groundwater by industrial workers
5. On-Site Groundwater – Future Condition:
    - Dermal contact with groundwater by construction/utility workers
    - Incidental ingestion of groundwater by construction/utility workers
    - Inhalation of volatile vapors by construction/utility workers

Off-Site Exposure Pathways:

1. Off-Site Surface Soil – Current/Future Condition:
    - Dermal contact with surface soil by adult and child residents, trespassers and industrial workers
    - Incidental ingestion of surface soil by adult and child residents, trespassers and industrial workers
    - Inhalation of airborne particulate originating from surface soil by adult and child residents, trespassers and industrial workers
2. Off-Site Sub-Surface Soil – Future Condition:
    - Dermal contact with soil by construction/utility workers
    - Incidental ingestion of soil by construction/utility workers

- Inhalation of airborne particulate and vapors originating from soil by construction/utility workers

3. Off-Site Groundwater – Current/Future Condition:
   - Inhalation of vapors in indoor air originating from groundwater by adult and child residents, and industrial workers
4. Off-Site Groundwater – Future Condition:
   - Dermal contact with groundwater by construction/utility workers
   - Incidental ingestion of groundwater by construction/utility workers
   - Inhalation of volatile vapors by construction/utility workers

7.4 SUMMARY

As discussed in the preceding sections, the qualitative exposure assessment identified media and potential human exposure to soil (through dermal contact, incidental ingestion, and inhalation of particulate and vapors), and groundwater (through dermal contact, incidental ingestion, and inhalation of vapors). The potentially exposed on-Site receptors include workers (industrial workers and construction/utility workers) and persons that may trespass onto the Site. The potentially exposed off-Site receptors include adult and child residents, workers (industrial workers and construction/utility workers) and persons that may trespass onto off-Site commercial/industrial properties.

As discussed in Section 7.2, COPCs were identified by comparison of maximum detected concentrations to 6 NYCRR Part 375 restricted use criteria for soil and NYS groundwater standards for groundwater. The COPCs identified in on-Site groundwater include a number of VOCs and metals. Additional volatile compounds were flagged as COPCs for the soil-to-indoor air pathway.

No COPCs were identified in off-Site soils. The COPCs identified in off-Site groundwater include cis-1,2-dichloroethene and TCE. These two analytes were also identified as COPCs in off-Site indoor air at one location.

8.0 FISH AND WILDLIFE IMPACT ANALYSIS

As part of the RI, CRA completed a Fish and Wild Life Impact Analysis (FWIA). The FWIA was completed in accordance with the NYSDEC guidance document entitled "Fish and Wildlife Impact Analysis for Inactive Hazardous Waste Sites (FWIA)" dated October 1994. A copy of the FWIA was presented as Appendix E to the Interim Site Investigation Report prepared by CRA dated July 8, 2008.

The objectives of the FWIA were to identify fish and wildlife resources that presently exist and that existed before contamination introduction at the Site, and to provide information for the design of a remedial investigation. The July 2008 FWIA was re-evaluated to include the data generated in late 2008 and 2009. The results of the re-evaluation are presented as an addendum to the FWIA and are provided as Appendix H to this report. To summarize, the FWIA concluded there is no impact to fish and wildlife on or near the Site due to dense urbanization and lack of natural habitats surrounding the Site. However, to be conservative CRA completed the additional relevant steps of the FWIA. Based on the results of the FWIA, it was also concluded that future remedial actions will not harm fish or wildlife and will result in the removal or isolation of Site-related contaminants, thus preventing future off-Site migration of Site-related contaminants and impacts to natural resources.

9.0 CONCLUSIONS AND RECOMMENDATIONS

9.1 NATURE AND EXTENT OF CONTAMINATION

Based on the results of the investigation and the Qualitative Human Health Exposure Assessment, the following conclusions were made:

1. Fill material ranges in thickness across the Site from less than one foot bgs to 10 feet bgs at both on and off Site locations. Not considering the artificial fill thickness measured at the soil mound locations, the fill thickness increased moving from northwest to southeast. The fill materials typically were comprised of soil, brick, and slag. The fill material is underlain by fine-grained soil, specifically, clay with silt. Borehole refusal occurred within the fine-grained soils at depths of up to approximately 19 feet bgs or less.
2. Analyte concentrations for surface soil (i.e. 0 to 2 inches bgs) samples collected from both on and off Site locations were below applicable RUSCOs.
3. Analyte concentrations for subsruface soil samples collected by EA in March 2004 identified the presence of lead at one location beneath the manufacturing facility at a concentration exceeding the industrial RUSCO.
4. Analyte concentrations for subsurface soil samples collected in 2006 identified the presence of lead, VOCs, and SVOCs at concentrations above industrial RUSCOs. These constituents were primarily found in the shallow (i.e. less than 2 feet bgs) soil/fill material. The concentrations of these constituents were considerably less in the underlying sample intervals.
5. Analyte concentrations for subsurface soil samples collected from July 2007 to June 2009 identified the presence of SVOCs and arsenic at two on-Site locations at concentrations that exceed the industrial RUSCOs.
6. Groundwater was present within monitoring wells that were installed within the fill/clay unit and in the upper bedrock unit. The depth to groundwater varied from approximately 1.77 feet to 10 feet bgs in overburden wells and from approximately 2.86 feet to 15.12 feet bgs in the bedrock wells. Water level data indicates that the groundwater hydraulic gradient in both the overburden and bedrock groundwater zones is to the west-southwest. The fine-grained soil conditions present an impediment to overburden groundwater flow horizontally.
7. Analytical data for groundwater samples identified the presence of VOCs at both on-Site and off-Site monitoring wells. The most frequently detected VOCs were TCE and cis-1,2-DCE. The greatest VOC concentrations were detected in the presumed source area at on Site monitoring wells MW-5 and MW-5A.

8. VOCs were either not detected at or were detected at concentrations below the NYS groundwater standards at up gradient wells MW-9 and MW-9A, cross gradient wells MW-7 and MW-7A, MW-10 and MW-25A and down gradient wells, MW-15A, MW-22A, and MW-23A. These locations are considered the limits of the VOC groundwater plume.
9. The qualitative exposure assessment identified media and potential human exposure to soil through dermal contact, incidental ingestion, and inhalation of particulate and vapors, and groundwater through dermal contact, incidental ingestion, and inhalation of vapors. The potentially exposed on-Site receptors include workers (industrial workers and construction/utility workers) and persons that may trespass onto the Site. The potentially exposed off-Site receptors include adult and child residents, workers (industrial workers and construction/utility workers) and persons that may trespass onto off-Site commercial/industrial properties. Potential human exposure can be addressed using remedial or other methods to eliminate exposure pathways and/or provide worker protection. COPCs were identified by comparison of maximum detected concentrations to 6 NYCRR Part 375 restricted use criteria for soil and NYS groundwater standards for groundwater. The COPCs identified in on-Site groundwater include a number of VOCs and metals. However, since the Site groundwater is not used for potable supply, this comparison to drinking water criteria is very conservative.
10. Additional volatile compounds were flagged as COPCs for the soil-to-indoor air pathway.
11. No COPCs were identified in off-Site soils. The COPCs identified in off-Site groundwater include cis-1,2-DCE and TCE. These two analytes were also identified as COPCs in on-Site groundwater and in off-Site indoor air at one location.

9.2 INTERIM REMEDIAL MEASURES

The results of the RI identified the presence of VOCs in the on-Site and off-Site overburden and bedrock groundwater at concentrations that exceed the NYS Groundwater Standards. VOCs were also detected in off-Site soil vapor samples at levels that, based on the NYSDOH Soil Vapor Intrusion Guidance, require mitigation.

Based on these findings, it is recommended that an Interim Remedial Measure (IRM) be implemented to address the soil vapor intrusion at the affected off-Site property. Based on a comparison of the results of the soil vapor sampling at 127 Harrison Street to the decision matrices in the NYSDOH Guidance document, mitigation is required to address potential exposures to VOCs in indoor air resulting from soil vapor intrusion. Buffalo China has contacted the property owner/resident to request permission and access to

conduct an IRM at this residence. As of the date of this report, the owner/resident had denied access.

Once access is granted, the building structure will be accessed and an appropriate mitigation plan will be developed. The mitigation plan will be submitted to NYSDEC and NYSDOH for approval. Once the approved mitigation plan is implemented it is expected to be the final remedy to address soil vapor intrusion at this off-Site property.

9.3 ALTERNATIVES ANALYSIS REPORT

An Alternatives Analysis Report (AAR) is being prepared to scope and formulate remedial alternatives to address the presence of lead, arsenic, SVOCs, and VOCs in on-Site soils and the presence of VOCs in both on and off Site groundwater. The AAR will evaluate applicable remedial alternatives in order to select the most appropriate remedial alternatives.

10.0 REFERENCES

Environmental Audits, Inc., Phase I Environmental Site Assessment, Industrial Property, Hayes Place, Buffalo, New York, February 2004.

Environmental Audits, Inc., Focused Phase II Environmental Assessment: Industrial Property, 51 Hayes Place Buffalo, New York, March 2004.

Conestoga-Rovers & Associates, Inc., Supplemental Site Investigation Report and Qualitative Human Health Exposure Assessment, Niagara Ceramics 51 Hayes Place, Buffalo, New York, June 2006.

Conestoga-Rovers & Associates, Inc., Fish and Wildlife Impact Assessment for the Former Buffalo China Site, April, 2008.

6 NYCRR Part 701, "Classifications-Surface Waters and Groundwaters."

New York State Department of Environmental Conservation Division of Environmental Remediation Draft Technical Guidance for Site Investigation and Remediation, December 2002.

New York State Department of Health, "Guidance for Evaluating Soil Vapor Intrusion in the State of New York," October 2006.

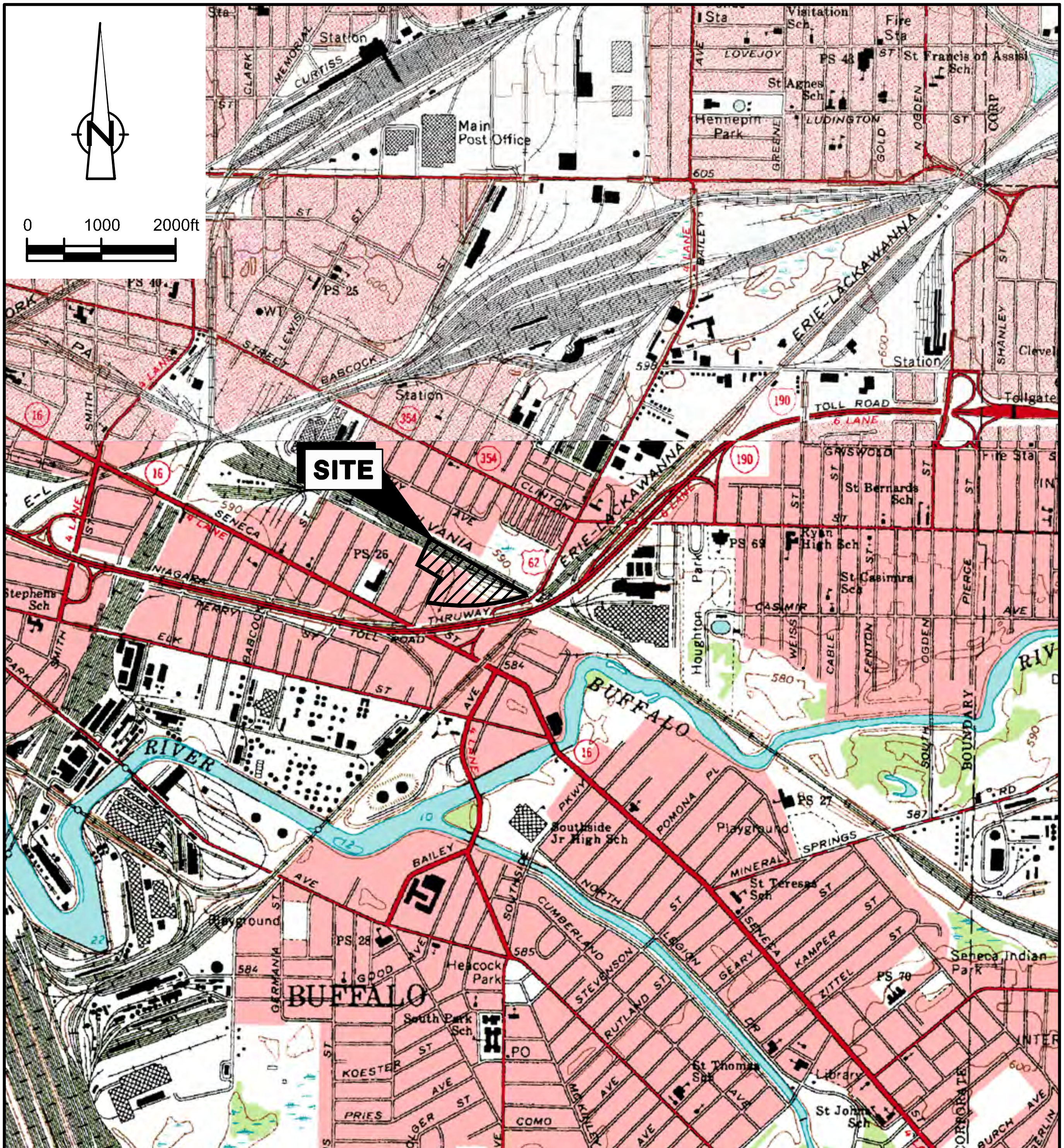
6 NYCRR Part 375 Environmental Remediation Programs, Effective December 14, 2006.

Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations, Reissued June 1998 [TOGS 1.1.1].

USEPA, 2008. Procedures for the Derivation of Equilibrium Partitioning Sediment Benchmarks (ESBs) for the Protection of Benthic Organisms: Compendium of Tier 2 Values for Nonionic Organics. EPA-600-R-02-016. Office of Research and Development. Washington, DC 20460.

LaSala, A.M., 1968. “Groundwater Resources of the Erie-Niagara Basin, New York,” State of New York Conservation Department Water Resources Commission Basin Planning Report ENB-3.

FIGURES



REFERENCE:

UNITED STATES GEOLOGIC SURVEY BUFFALO NE, BUFFALO SE QUADRANGLE, NY
TOPOGRAPHIC, 7.5 MINUTES SERIES 1965
SCALE: 1:24,000

figure 1.1

SITE LOCATION MAP
REMEDIAL INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
Buffalo, New York

CRA

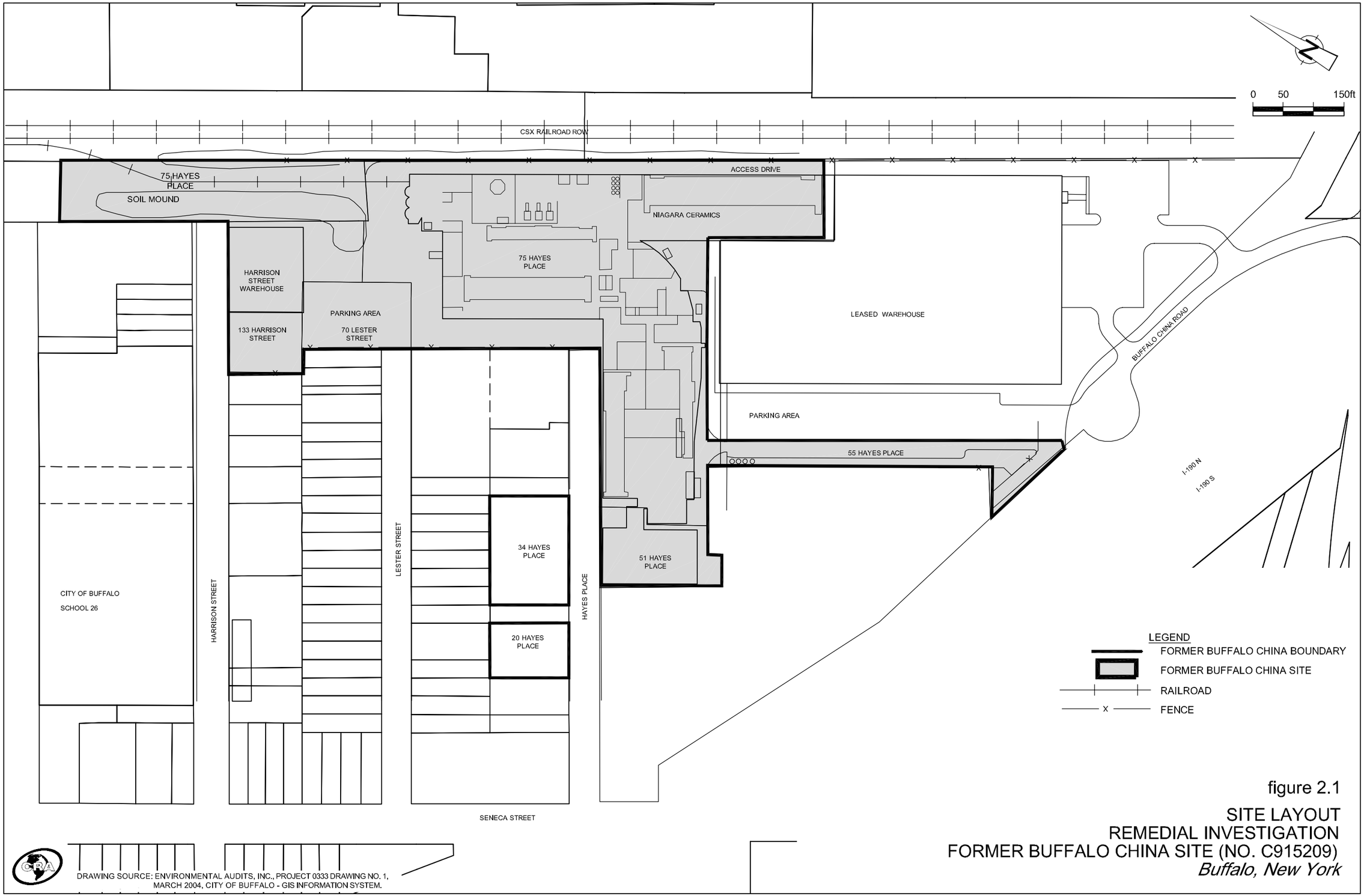


figure 2.1

SITE LAYOUT
REMEDIAL INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
Buffalo, New York

DRAWING SOURCE: ENVIRONMENTAL AUDITS, INC., PROJECT 0333 DRAWING NO. 1, MARCH 2004, CITY OF BUFFALO - GIS INFORMATION SYSTEM.

37191-00(008)GN-BU013 FEB 26/2010

BH-7 S2	5/2/2006 1.4-1.8 ft BGS mg/kg	PART 375 CRITERIA*
Lead	4980	3900

BH-5 S2	5/2/2006 1.6-2.5 ft BGS mg/kg	PART 375 CRITERIA*
Trichloroethene	670	400

BH-9 S1	5/2/2006 0.5-1 ft BGS mg/kg	PART 375 CRITERIA*
Lead	9250	3900

BH-13 S2	5/3/2006 1.5-2.5 ft BGS mg/kg	PART 375 CRITERIA*
Benzo(a)pyrene	1.3	1.1

BH-1/ MW-9
BH-16
BH-17
BH-15/ MW-8
ACCESS DRIVE
MW-2
MW-3
BH-6
NIAGARA CERAMICS
BH-7
SB-37
BH-5/ MW-5
HARRISON STREET WAREHOUSE
BH-2/ MW-4
BH-8
BH-9
PARKING AREA
BH-10
LEASED WAREHOUSE
BH-11
BH-3/ MW-6
BH-12
BH-13
BH-14/ MW-7
BH-4
BAILEY AVENUE
BUFFALO CHINA ROAD
PARKING AREA
MW-1
HARRISON STREET
LESTER STREET
HAYES PLACE
34 HAYES PLACE
20 HAYES PLACE
N
0 50 150ft

LEGEND
- FORMER BUFFALO CHINA BOUNDARY
- FORMER BUFFALO CHINA SITE
- RAILROAD
- FENCE
- EXISTING BOREHOLE LOCATION
- EXISTING MONITORING WELL LOCATION

figure 3.1

2006 SUPPLEMENTAL SITE INVESTIGATION SOIL EXCEEDANCES REMEDIAL INVESTIGATION FORMER BUFFALO CHINA SITE (NO. C915209)

Buffalo, New York

*CRITERIA USED TO EVALUATE ANALYTICAL RESULTS: RESTRICTED USE SOIL CLEAN UP OBJECTIVES 6 NYCRR PART 375, EFFECTIVE DECEMBER 14,2006.

DRAWING SOURCE: ENVIRONMENTAL AUDITS, INC., PROJECT 0333 DRAWING NO. 1, MARCH 2004.

MW-8	5/11/2006 ug/L	NYS GROUNDWATER CRITERIA*
cis-1,2-Dichloroethene	8.5	5
Lead	46.0	25
Trichloroethene	31	5

MW-5	5/11/2006 ug/L	NYS GROUNDWATER CRITERIA*
cis-1,2-Dichloroethene	130000	5
Trichloroethene	540000	5

MW-4	5/11/2006 ug/L	NYS GROUNDWATER CRITERIA*
cis-1,2-Dichloroethene	960	5
Trichloroethene	1600	5

MW-6	5/11/2006 ug/L	NYS GROUNDWATER CRITERIA*
cis-1,2-Dichloroethene	24000	5
Trichloroethene	12000	5
Vinyl chloride	570 J	5

BH-16
BH-17
BH-1/ MW-9
BH-15/ MW-8
ACCESS DRIVE
MW-2
MW-3
BH-6
NIAGARA CERAMICS
BH-7
BH-5/ MW-5
SB-37
HARRISON STREET WAREHOUSE
BH-2/ MW-4
BH-8
BH-9
PARKING AREA
BH-10
LEASED WAREHOUSE
BAILEY AVENUE
BUFFALO CHINA ROAD
BH-11
BH-3/ MW-6
BH-12
BH-13
BH-14/ MW-7
BH-4
PARKING AREA
MW-1
HARRISON STREET
LESTER STREET
HAYES PLACE
34 HAYES PLACE
20 HAYES PLACE

0 50 150ft

LEGEND

- FORMER BUFFALO CHINA BOUNDARY
- FORMER BUFFALO CHINA SITE
- RAILROAD
- FENCE
- EXISTING BOREHOLE LOCATION
- EXISTING MONITORING WELL LOCATION

figure 3.2

2006 SUPPLEMENTAL SITE INVESTIGATION GROUNDWATER EXCEEDANCES REMEDIAL INVESTIGATION FORMER BUFFALO CHINA SITE (NO. C915209)

Buffalo, New York

* CRITERIA USED FOR EVALUATION OF ANAYTICAL RESULTS - NEW YORK STATE AMBIENT WATER QUALITY STANDARDS AND GUIDANCE SERIES (TOGs) 1.1.1 DATED JUNE 1998.

DRAWING SOURCE: ENVIRONMENTAL AUDITS, INC., PROJECT 0333 DRAWING NO. 1, MARCH 2004.

0 50 150ft

SS-7
SS-1
SS-2
SS-11
SS-6
SS-22
SS-23
SS-24
BACK STOP
SS-8
SS-9
SS-25
SS-3
SS-4
SS-5
SS-19
SS-21
SS-20
PLAYGROUND
TENNIS COURT
SS-18
SS-10
SS-16
SS-15
SS-17
SS-12
SS-13
SS-14
CITY OF BUFFALO
SCHOOL 26
HARRISON STREET
LESTER STREET
HAYES PLACE
SENECA STREET
75 HAYES PLACE
NIAGARA CERAMICS
LEASED WAREHOUSE
PARKING AREA
55 HAYES PLACE
51 HAYES PLACE
34 HAYES PLACE
20 HAYES PLACE
BUFFALO CHINA ROAD

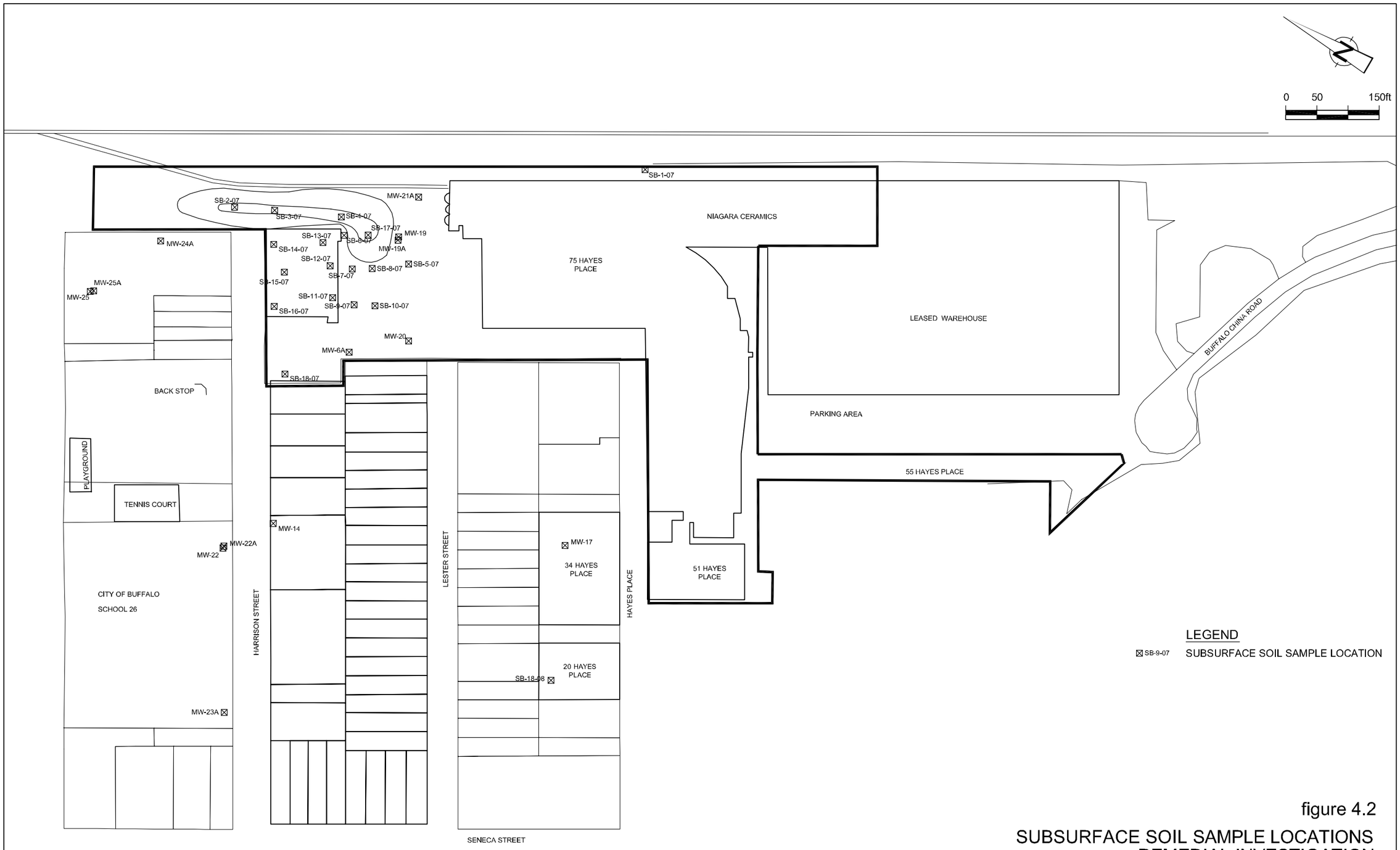
LEGEND

SS-11 SURFACE SOIL SAMPLE

figure 4.1

SURFACE SOIL SAMPLE LOCATIONS
REMEDIAL INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
Buffalo, New York

37191-00(008)GN-BU010 FEB 26/2010



SOIL CRITERIA USED FOR EVALUATION OF ANALYTICAL RESULTS - 6 NYCRR PART 375 RESTRICTED USE SOIL CLEANUP OBJECTIVES - PROTECTION OF PUBLIC HEALTH. INDUSTRIAL CRITERIA USED FOR ON-SITE LOCATIONS. RESIDENTIAL CRITERIA USED FOR OFF-SITE LOCATIONS.

figure 4.2

SUBSURFACE SOIL SAMPLE LOCATIONS
REMEDIAL INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
Buffalo, New York

37191-00(008)GN-BU019 FEB 26/2010

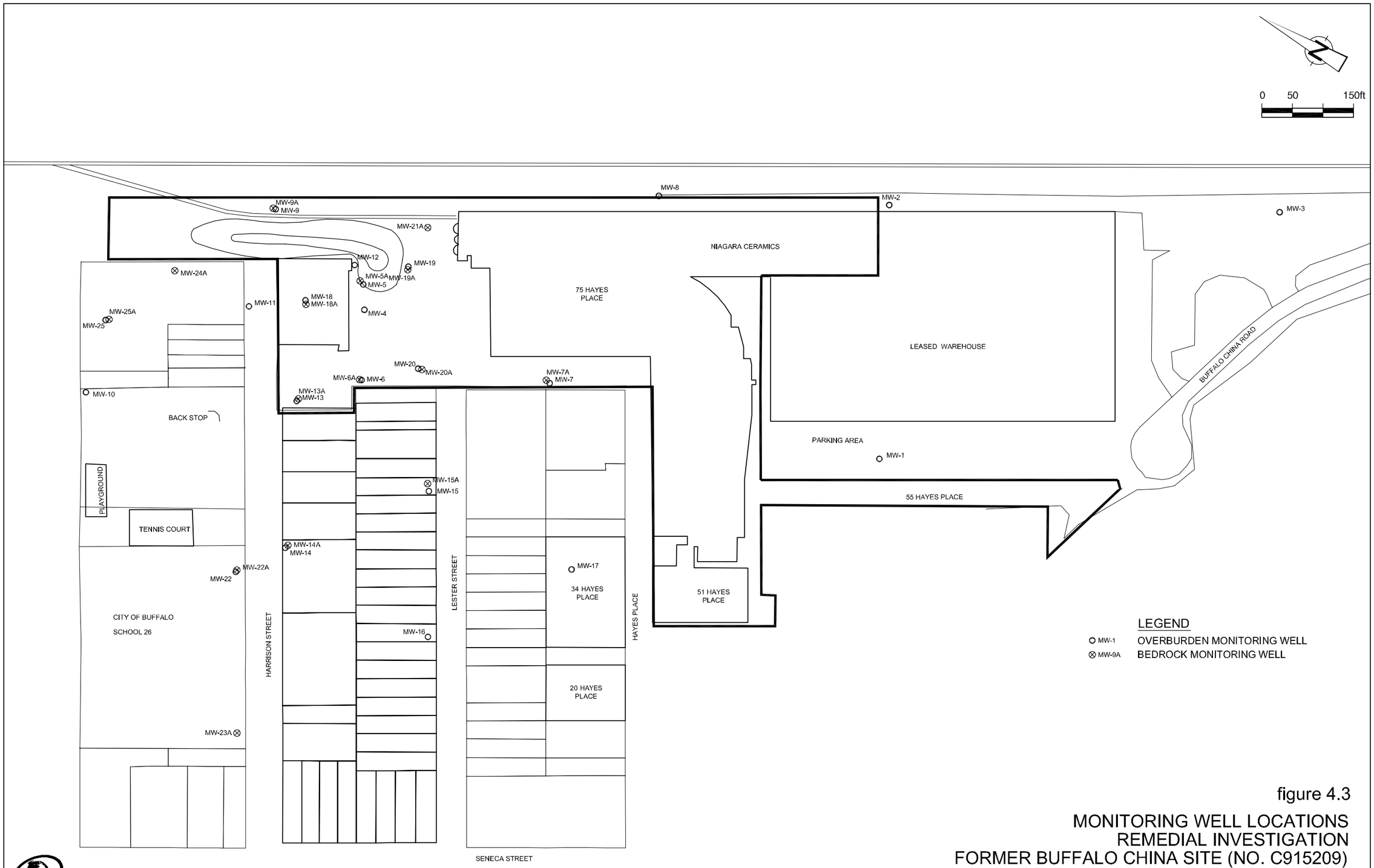


figure 4.3

MONITORING WELL LOCATIONS
REMEDIAL INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
Buffalo, New York

37191-00(008)GN-BU011 FEB 26/2010

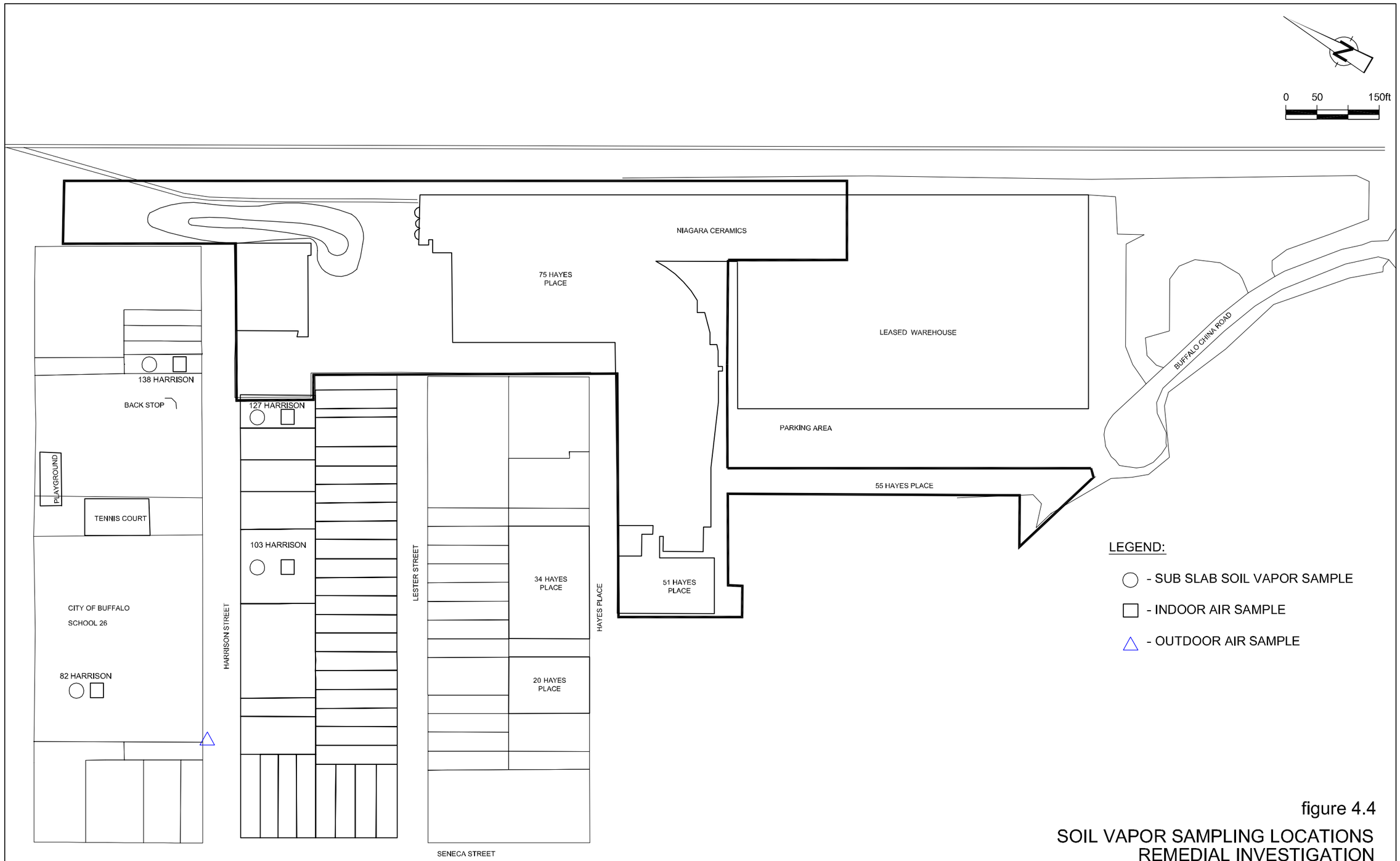


figure 4.4

SOIL VAPOR SAMPLING LOCATIONS
REMEDIAL INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
Buffalo, New York

37191-00(008)GN-BU018 FEB 26/2010

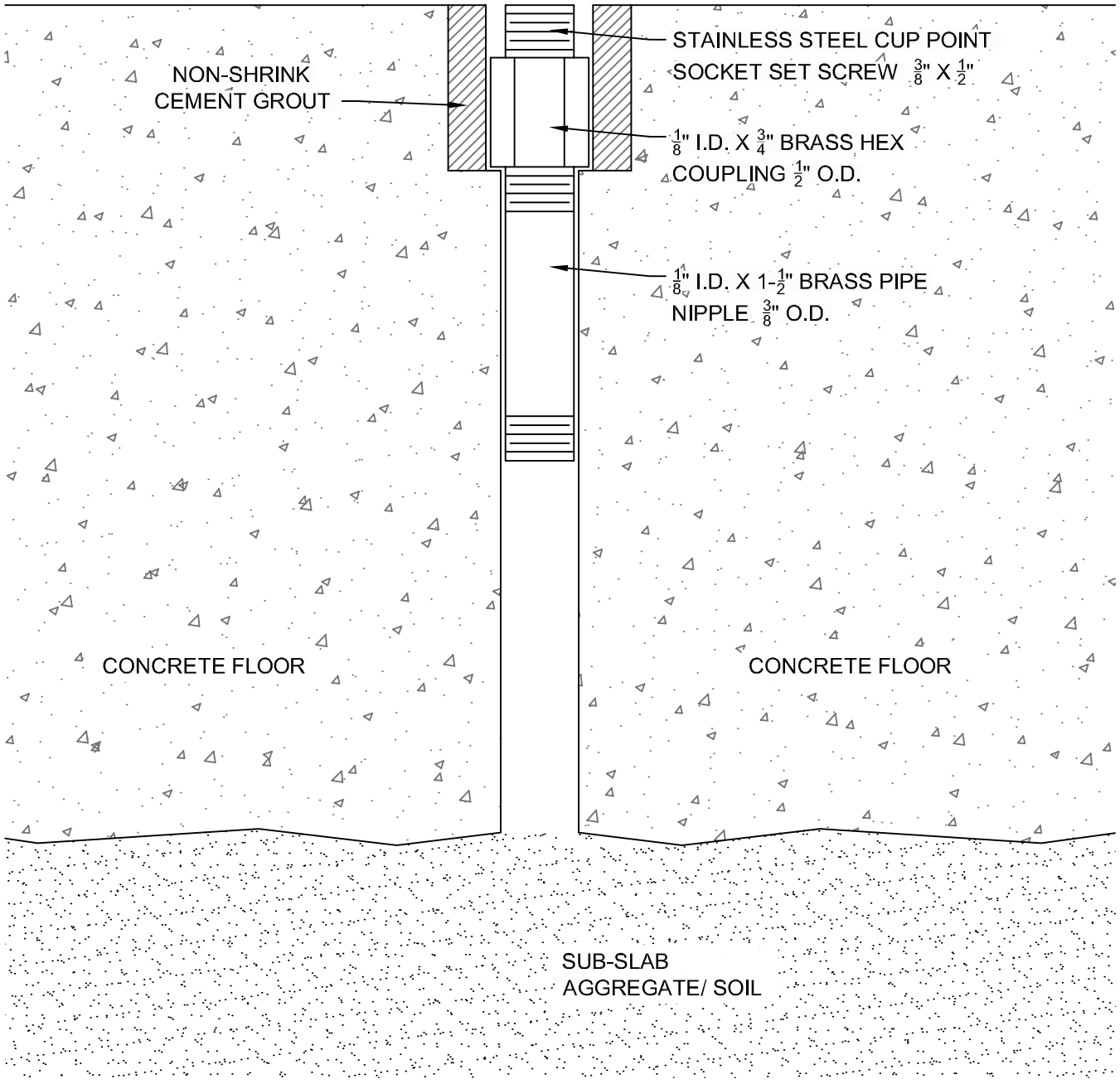


figure 4.5

TYPICAL SUB-SLAB SOIL VAPOR PROBE INSTALLATION
REMEDIAL INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
Buffalo, New York

NOT TO SCALE

37191-00(008)GN-BU016 FEB 26/2010

figure 4.6

SOIL VAPOR INTRUSION CANISTER SET-UP
REMEDIAL INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
Buffalo, New York

0 50 150ft

MW-9A 587.78
MW-9 587.16
MW-21A 586.88
MW-12 587.00
MW-19 586.32
MW-5A 586.33
MW-19A 586.2
MW-5 586.68
MW-8 577.59
MW-2 580.39
MW-3 584.92
NIAGARA CERAMICS
75 HAYES PLACE
MW-24A 590.73
MW-11 586.01
MW-18 586.12
MW-18A 586.52
MW-25A 590.97
MW-25 590.92
LEASED WAREHOUSE
MW-20 584.79
MW-20A 585.31
MW-6A 584.3
MW-6 584.61
MW-7A 583.44
MW-7 583.78
MW-13A 586.91
MW-13 587.69
MW-10 586.95
BACK STOP
BUFFALO CHINA ROAD
PARKING AREA
MW-1 579.73
MW-15A 584.92
MW-15 584.93
PLAYGROUND
TENNIS COURT
55 HAYES PLACE
MW-14A 585.05
MW-14 584.31
MW-22A 580.73
MW-22 580.58
MW-17 581.10
34 HAYES PLACE
LESTER STREET
HARRISON STREET
51 HAYES PLACE
HAYES PLACE
CITY OF BUFFALO
SCHOOL 26
MW-16 581.00
20 HAYES PLACE
MW-23A 577.40
SENECA STREET

590.00 589.00 588.00 587.00 586.00 585.00 584.00 583.00 582.00 581.00 580.00 579.00 578.00

LEGEND

MW-1 OVERBURDEN MONITORING WELL
MW-9A BEDROCK MONITORING WELL

figure 5.1

BEDROCK SURFACE ELEVATION CONTOURS
REMEDIAL INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
Buffalo, New York

37191-00(008)GN-BU001 FEB 26/2010

0 50 150ft

592.00
591.00
590.00
589.00
588.00
587.00
586.00
585.00
584.00
583.00

MW-9 592.77
MW-8 592.16
MW-2 590.35
MW-3 588.17
MW-12 590.76
MW-19 591.14
MW-5 593.08
MW-18 589.40
MW-11 589.06
MW-4 590.8
MW-25 DRY (590.92)
MW-20 590.32
MW-6 587.18
MW-7 590.28
MW-10 586.82
MW-13 588.25
MW-1 588.63
MW-25 DRY (584.93)
MW-14 584.89
MW-22 588.04
MW-17 582.49
MW-16 DRY (581.00)

NIAGARA CERAMICS
75 HAYES PLACE
LEASED WAREHOUSE
PARKING AREA
55 HAYES PLACE
51 HAYES PLACE
34 HAYES PLACE
20 HAYES PLACE
BACK STOP
PLAYGROUND
TENNIS COURT
CITY OF BUFFALO SCHOOL 26
HARRISON STREET
LESTER STREET
HAYES PLACE
SENECA STREET
BUFFALO CHINA ROAD

LEGEND
MW-1 OVERBURDEN MONITORING WELL
INDICATES GROUNDWATER GRADIENT DIRECTION

NOTE: (581.00) - INDICATES ELEVATION CORRESPONDING TO THE BOTTOM OF THE WELL.

figure 5.2

OVERBURDEN GROUNDWATER SURFACE ELEVATION CONTOURS - JULY, 2009
REMEDIAL INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
Buffalo, New York

37191-00(008)GN-BU004 FEB 26/2010

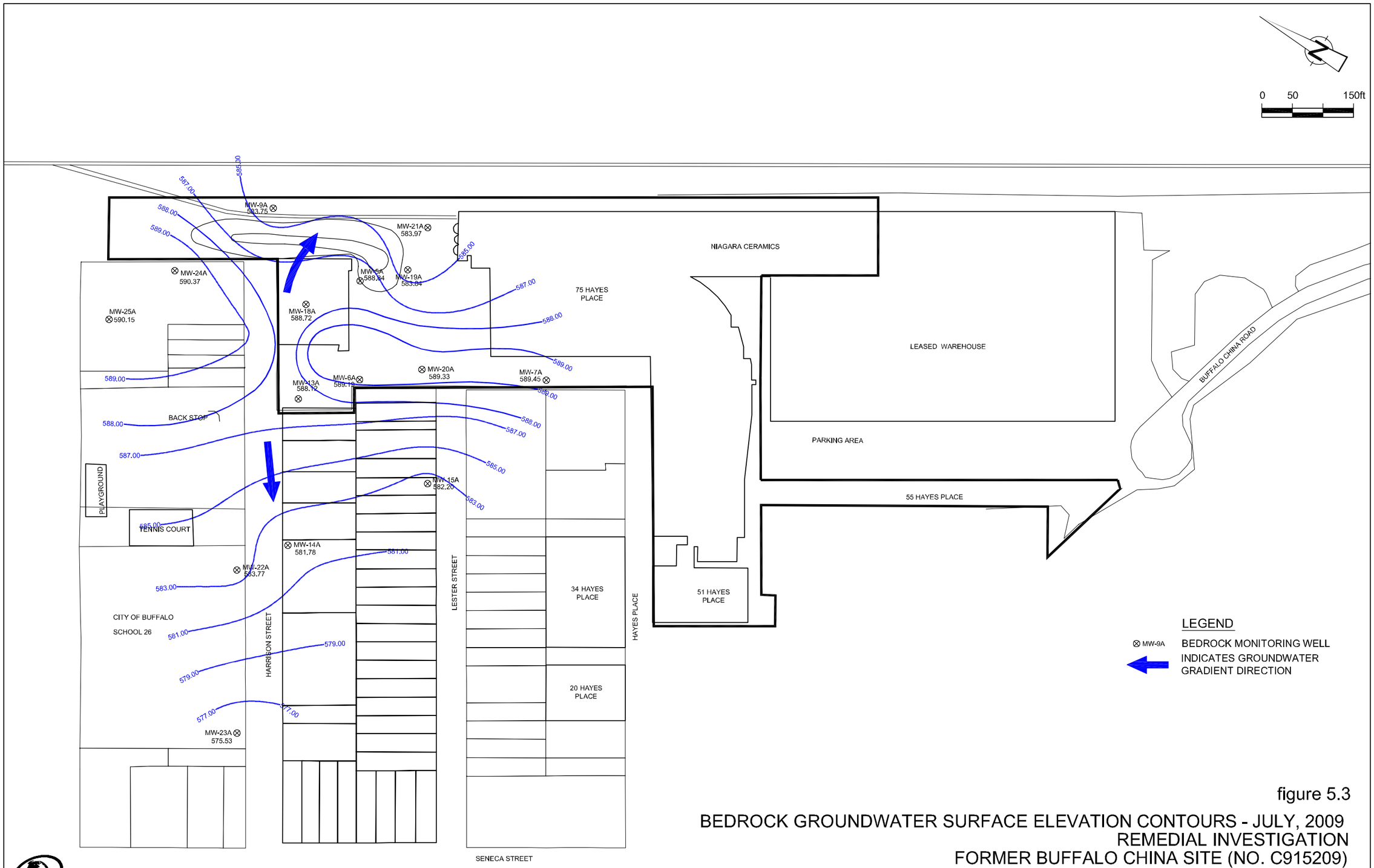


figure 5.3

BEDROCK GROUNDWATER SURFACE ELEVATION CONTOURS - JULY, 2009
REMEDIAL INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
Buffalo, New York

SB-2-07	7/27/2007 6.5-8 ft BGS mg/kg	7/27/2007 6.5-8 ft BGS mg/kg	NYS SOIL CRITERIA
SVOCs			
Benzo(a)pyrene	1.4	2.7	1.1

SB-7-07	7/25/2007 3-6 ft BGS mg/kg	NYS SOIL CRITERIA
SVOCs		
Benzo(a)anthracene	15	11
Benzo(a)pyrene	14	1.1
Benzo(b)fluoranthene	17	11
Dibenz(a,h)anthracene	2.4	1.1

SB-8-07	7/25/2007 3,5-8 ft BGS mg/kg	NYS SOIL CRITERIA
Metals		
Arsenic	21.4	16

MW-17	5/9/2008 0-2 ft BGS mg/kg	NYS SOIL CRITERIA
SVOCs		
Benzo(a)pyrene	2.8	1.1

0 50 150ft

MW-8
SB-1-07
MW-2
MW-3
MW-9A
MW-9
SB-2-07
MW-21A
SB-3-07
SB-4-07
MW-12
SB-17-07
MW-19
SB-13-07
SB-6-07
MW-5A
MW-19A
SB-14-07
MW-5
SB-12-07
MW-18
SB-8-07
SB-5-07
MW-11
MW-18A
SB-7-07
SB-15-07
MW-4
SB-11-07
SB-9-07
SB-10-07
SB-16-07
MW-24A
MW-25A
MW-25
MW-10
MW-20
MW-20A
MW-6A
MW-6
MW-7A
MW-7
MW-13A
MW-13
SB-18-07
BACK STOP
PLAYGROUND
TENNIS COURT
MW-15A
MW-15
MW-14A
MW-14
MW-22A
MW-22
CITY OF BUFFALO
SCHOOL 26
MW-23A
HARRISON STREET
LESTER STREET
MW-16
MW-17
34 HAYES PLACE
20 HAYES PLACE
SB-18-08
HAYES PLACE
SENECA STREET
NIAGARA CERAMICS
LEASED WAREHOUSE
PARKING AREA
MW-1
55 HAYES PLACE
51 HAYES PLACE
75 HAYES
BUFFALO CHINA ROAD

LEGEND

- MW-1 OVERBURDEN MONITORING WELL
- MW-9A BEDROCK MONITORING WELL
- SB-9-07 SOIL BORING

figure 6.1

CONTAMINANT CONCENTRATIONS EXCEEDING CRITERIA IN SOIL
REMEDIAL INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
Buffalo, New York

SOIL CRITERIA USED FOR EVALUATION OF ANALYTICAL RESULTS - 6 NYCRR PART 375 RESTRICTED USE SOIL CLEANUP OBJECTIVES - PROTECTION OF PUBLIC HEALTH. INDUSTRIAL CRITERIA USED FOR ON-SITE LOCATIONS. RESIDENTIAL CRITERIA USED FOR OFF-SITE LOCATIONS.

MW-18	1/13/2009 ug/L	1/13/2009 ug/L	7/22/2009 ug/L	NYS GROUNDWATER CRITERIA
VOCs				
cis-1,2-Dichloroethene	42	40 J	45 J	5
Tetrachloroethene	6.0 J	-	-	5
Trichloroethene	680	540	680	5

MW-12	8/21/2007 ug/L	8/21/2007 ug/L	5/28/2008 ug/L	5/28/2008 ug/L	1/13/2009 ug/L	7/22/2009 ug/L	NYS GROUNDWATER CRITERIA
VOCs							
cis-1,2-Dichloroethene	65000 J	25000 J	15000	16000	340	1100	5
Tetrachloroethene	-	-	640 J	710 J	-	63 J	5
Toluene	-	-	-	-	10 J	-	5
Trichloroethene	190000 J	26000 J	81000	88000	570	4400	5
Vinyl chloride	-	760 J	760 J	910 J	-	-	2

MW-19	7/20/2009 ug/L	NYS GROUNDWATER CRITERIA
VOCs		
cis-1,2-Dichloroethene	410 J	5
Trichloroethene	15000	5

MW-8	5/11/2006 ug/L	NYS GROUNDWATER CRITERIA
VOCs		
cis-1,2-Dichloroethene	8.5	5
Trichloroethene	31	5

MW-5	5/11/2006 ug/L	5/11/2006 ug/L	8/21/2007 ug/L	5/28/2008 ug/L	1/20/2009 ug/L	7/22/2009 ug/L	NYS GROUNDWATER CRITERIA
VOCs							
1,1,2-Trichloroethane	-	-	9800 J	-	-	-	1
cis-1,2-Dichloroethene	130000	140000	240000	150000	320000	310000	5
Toluene	-	-	-	-	-	96000	5
Trichloroethene	540000	600000	550000	310000	560000	410000	5

MW-4	5/11/2006 ug/L	8/21/2007 ug/L	8/21/2007 ug/L	5/28/2008 ug/L	5/28/2008 ug/L	1/13/2009 ug/L	7/22/2009 ug/L	NYS GROUNDWATER CRITERIA
VOCs								
cis-1,2-Dichloroethene	960	2200 J	1100 J	1200	1300	1300	1600	5
trans-1,2-Dichloroethene	-	87 J	34 J	27 J	29 J	22 J	29 J	5
Trichloroethene	1600	2000 J	1000 J	2200	2200	1500	2200	5
Vinyl chloride	-	31 J	-	17 J	-	-	-	2

MW-11	9/19/2008 ug/L	1/22/2009 ug/L	1/22/2009 ug/L	7/20/2009 ug/L	NYS GROUNDWATER CRITERIA
VOCs					
cis-1,2-Dichloroethene	3500	610	620	350	5
trans-1,2-Dichloroethene	-	-	-	5.6	5
Trichloroethene	1700	280	280	120	5

MW-20	7/22/2009 ug/L	NYS GROUNDWATER CRITERIA
VOCs		
cis-1,2-Dichloroethene	89	5
Trichloroethene	19	5
Vinyl chloride	5.5	2

MW-22	7/20/2009 ug/L	NYS GROUNDWATER CRITERIA
VOCs		
Trichloroethene	30	5

MW-6	5/11/2006 ug/L	5/28/2008 ug/L	1/20/2009 ug/L	7/22/2009 ug/L	NYS GROUNDWATER CRITERIA
VOCs					
1,2,4-Trichlorobenzene	-	15 J	-	-	5
cis-1,2-Dichloroethene	24000	1600	1300	740	5
Tetrachloroethene	-	13 J	-	-	5
trans-1,2-Dichloroethene	-	11 J	8.3 J	-	5
Trichloroethene	12000	630	450 J	290	5
Vinyl chloride	570 J	24 J	15 J	-	2

MW-17	5/28/2008 ug/L	NYS GROUNDWATER CRITERIA
VOCs		
Trichloroethene	5.1	5

0 50 150ft

NIAGARA CERAMICS

75 HAYES PLACE

55 HAYES PLACE

51 HAYES PLACE

34 HAYES PLACE

20 HAYES PLACE

HAYES PLACE

LESTER STREET

BUFFALO CHINA ROAD

SENECA STREET

CITY OF BUFFALO SCHOOL 26

TENNIS COURT

BACK STOP

PLAYGR

MW-1 MW-2 MW-3 MW-4 MW-5 MW-6 MW-7 MW-8 MW-9 MW-10 MW-11 MW-12 MW-13 DRY MW-14 DRY MW-15 DRY MW-16 DRY MW-17 MW-18 MW-19 MW-20 MW-22 MW-25 DRY

LEGEND

MW-1 OVERBURDEN MONITORING WELL

figure 6.2

CONTAMINANT CONCENTRATIONS EXCEEDING CRITERIA IN OVERBURDEN GROUNDWATER
REMEDIAL INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
Buffalo, New York

GROUNDWATER CRITERIA USED FOR EVALUATION OF ANALYTICAL RESULTS - NYSDEC TOGS 1.1.1 AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES AND GROUNDWATER EFFLUENT LIMITATIONS JUNE 1998, JANUARY 1999 ERRATA SHEET, APRIL 2000 ADDENDUM, JUNE 2004 ADDENDUM.

0 50 150ft

MW-8
MW-9
MW-2
MW-3
NIAGARA CERAMICS
MW-12
MW-19
MW-5
MW-18
MW-11
MW-4
75 HAYES PLACE
MW-25
LEASED WAREHOUSE
MW-20
MW-6
MW-7
MW-10
MW-13
BUFFALO CHINA ROAD
BACK STOP
PARKING AREA
MW-1
PLAYGROUND
MW-15
55 HAYES PLACE
TENNIS COURT
MW-14
MW-22
MW-17
34 HAYES PLACE
51 HAYES PLACE
CITY OF BUFFALO
SCHOOL 26
HARRISON STREET
LESTER STREET
HAYES PLACE
MW-16
20 HAYES PLACE
SENECA STREET

LEGEND

MW-1 OVERBURDEN MONITORING WELL

TRICHLOROETHENE CONCENTRATIONS IN ug/L

- > 100,000
- 50,000 - 100,000
- 10,000 - 50,000
- 1,000 - 10,000
- 100 - 1,000
- 5 - 100

figure 6.3

TRICHLOROETHENE CONTAMINANT PLUME BASED ON OVERBURDEN GROUNDWATER DATA ONLY- JUNE 2009 REMEDIAL INVESTIGATION FORMER BUFFALO CHINA SITE (NO. C915209)

Buffalo, New York

37191-00(008)GN-BU024 MAY 10/2010

MW-5A	1/20/2009 ug/L	7/22/2009 ug/L	7/22/2009 ug/L	NYS GROUNDWATER CRITERIA
VOCs				
1,1-Dichloroethene	-	40 J	-	5
1,2-Dichloroethane	-	-	320 J	0.6
Acetone	-	280 J	-	50
cis-1,2-Dichloroethene	71000	18000	27000	5
Methylene chloride	-	80 J	240 J	5
Tetrachloroethene	-	45 J	-	5
Toluene	-	24 J	-	5
trans-1,2-Dichloroethene	-	66 J	-	5
Trichloroethene	290000	24000	35000	5
Vinyl chloride	-	83 J	-	2

MW-18A	7/22/2009 ug/L	NYS GROUNDWATER CRITERIA
VOCs		
cis-1,2-Dichloroethene	4600	5
Trichloroethene	26000	5

MW-21A	7/21/2009 ug/L	7/21/2009 ug/L	NYS GROUNDWATER CRITERIA
VOCs			
Acetone	110 J	-	50
cis-1,2-Dichloroethene	890	710 J	5
trans-1,2-Dichloroethene	11 J	7.2	5
Trichloroethene	2400	1900 J	5
Vinyl chloride	26 J	42	2

MW-19A	7/20/2009 ug/L	NYS GROUNDWATER CRITERIA
VOCs		
cis-1,2-Dichloroethene	1100	5
Trichloroethene	4600	5
Vinyl chloride	70 J	2

MW-20A	7/22/2009 ug/L	NYS GROUNDWATER CRITERIA
VOCs		
cis-1,2-Dichloroethene	620	5
Methylene chloride	5.9 J	5
trans-1,2-Dichloroethene	5.5 J	5
Trichloroethene	200	5
Vinyl chloride	14 J	2

MW-13A	1/19/2009 ug/L	7/22/2009 ug/L	NYS GROUNDWATER CRITERIA
VOCs			
cis-1,2-Dichloroethene	58000	42000	5
trans-1,2-Dichloroethene	350 J	-	5
Trichloroethene	160000	39000	5
Vinyl chloride	850 J	530 J	2

MW-6A	7/22/2009 ug/L	NYS GROUNDWATER CRITERIA
VOCs		
cis-1,2-Dichloroethene	30	5

MW-14A	1/22/2009 ug/L	7/20/2009 ug/L	NYS GROUNDWATER CRITERIA
VOCs			
cis-1,2-Dichloroethene	140	120	5
Trichloroethene	140	190	5

0 50 150ft

MW-9A
MW-21A
MW-24A
MW-5A
MW-19A
MW-18A
MW-25A
MW-20A
MW-7A
MW-6A
MW-13A
MW-15A
MW-14A
MW-22A
MW-23A

NIAGARA CERAMICS
75 HAYES PLACE
BACK STOP
TENNIS COURT
CITY OF BUFFALO
SCHOOL 26
HARRISON STREET
LESTER STREET
HAYES PLACE
SENECA STREET
34 HAYES PLACE
20 HAYES PLACE
55 HAYES PLACE
51 HAYES PLACE
BUFFALO CHINA ROAD

LEGEND

⊗ MW-9A BEDROCK MONITORING WELL

figure 6.4

CONTAMINANT CONCENTRATIONS EXCEEDING CRITERIA IN BEDROCK GROUNDWATER
REMEDIAL INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
Buffalo, New York

GROUNDWATER CRITERIA USED FOR EVALUATION OF ANALYTICAL RESULTS - NYSDEC TOGS 1.1.1 AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES AND GROUNDWATER EFFLUENT LIMITATIONS JUNE 1998, JANUARY 1999 ERRATA SHEET, APRIL 2000 ADDENDUM, JUNE 2004 ADDENDUM.

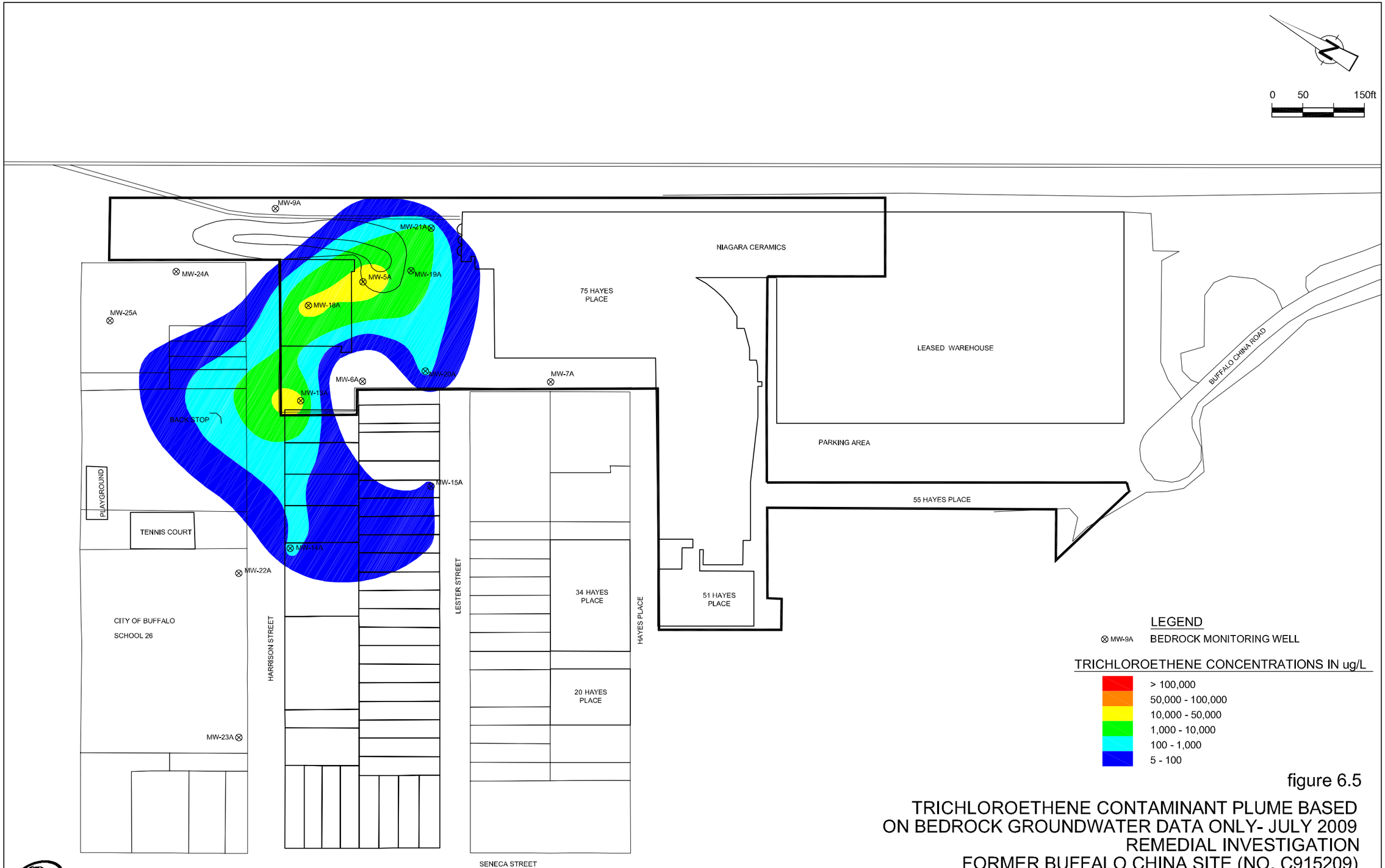


figure 6.5

TRICHLOROETHENE CONTAMINANT PLUME BASED ON BEDROCK GROUNDWATER DATA ONLY- JULY 2009
REMEDIAL INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
Buffalo, New York

37191-00(008)GN-BU023 MAY 10/2010

TABLES

TABLE 3.1

2006 SSI ANALYTICAL RESULTS SUMMARY - SOIL
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

		Location ID:	*BH-1 S1*	*BH-1 S2*	*BH-2 S1*	*BH-2 S3*	*BH-3 S1*	*BH-3 S2*	*BH-3 S3*	*BH-4 S1*
		Sample Name:	*S-37191-050206-PK-023*	*S-37191-050206-PK-024*	*S-37191-050106-JRR-001*	*S-37191-050106-JRR-002*	*S-37191-050206-PK-027*	*S-37191-050206-PK-028*	*S-37191-050206-PK-029*	*S-37191-050306-PK-038*
		Sample Date:	*5/2/2006*	*5/2/2006*	*5/1/2006*	*5/1/2006*	*5/2/2006*	*5/2/2006*	*5/2/2006*	*5/3/2006*
		Depth:	*0.5 - 1 ft*	*2 - 2.4 ft*	*0 - 1 ft*	*8 - 10 ft*	*0.5 - 1 ft*	*2 - 3 ft*	*4 - 5 ft*	*0.3 - 1.2 ft*
Parameters	*Units*	*6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial*								
Volatile Organic Compounds										
Acetone	mg/kg	1000	--	--	--	R	--	R	R	--
Carbon disulfide	mg/kg	NC	--	--	--	0.0055 U	--	0.0062 U	0.0061 U	--
cis-1,2-Dichloroethene	mg/kg	1000	--	--	--	0.0064	--	0.0062 U	0.0061 U	--
Methylene chloride	mg/kg	1000	--	--	--	0.0055 U	--	0.0062 U	0.0061 U	--
Tetrachloroethene	mg/kg	300	--	--	--	0.0055 U	--	0.0062 U	0.0061 U	--
Toluene	mg/kg	1000	--	--	--	0.0055 U	--	0.0062 U	0.0061 U	--
Trichloroethene	mg/kg	400	--	--	--	0.018	--	0.0062 U	0.0061 U	--
Semi-volatile Organic Compounds										
2-Methylnaphthalene	mg/kg	NC	--	--	--	0.39 U	--	0.41 U	0.41 U	--
2-Methylphenol	mg/kg	1000	--	--	--	0.39 U	--	0.41 U	0.41 U	--
4-Methylphenol	mg/kg	1000	--	--	--	0.39 U	--	0.41 U	0.41 U	--
4-Nitroaniline	mg/kg	NC	--	--	--	1.9 U	--	2 U	2 U	--
Acenaphthene	mg/kg	1000	--	--	--	0.39 U	--	0.41 U	0.41 U	--
Acenaphthylene	mg/kg	1000	--	--	--	0.014 J	--	0.41 U	0.41 U	--
Anthracene	mg/kg	1000	--	--	--	0.029 J	--	0.41 U	0.41 U	--
Benzo(a)anthracene	mg/kg	11	--	--	--	0.08 J	--	0.023 J	0.41 U	--
Benzo(a)pyrene	mg/kg	1.1	--	--	--	0.098 J	--	0.022 J	0.41 U	--
Benzo(b)fluoranthene	mg/kg	11	--	--	--	0.11 J	--	0.033 J	0.41 U	--
Benzo(g,h,i)perylene	mg/kg	1000	--	--	--	0.094 J	--	0.023 J	0.41 U	--
Benzo(k)fluoranthene	mg/kg	110	--	--	--	0.044 J	--	0.011 J	0.41 U	--
bis(2-Ethylhexyl)phthalate	mg/kg	NC	--	--	--	0.39 U	--	0.41 U	0.41 U	--
Butyl benzylphthalate	mg/kg	NC	--	--	--	0.018 J	--	0.024 J	0.022 J	--
Carbazole	mg/kg	NC	--	--	--	0.011 J	--	0.41 U	0.41 U	--
Chrysene	mg/kg	110	--	--	--	0.087 J	--	0.031 J	0.41 U	--
Dibenz(a,h)anthracene	mg/kg	1.1	--	--	--	0.021 J	--	0.41 U	0.41 U	--
Dibenzofuran	mg/kg	1000	--	--	--	0.011 J	--	0.41 U	0.41 U	--
Diethyl phthalate	mg/kg	NC	--	--	--	0.39 U	--	0.41 U	0.41 U	--
Di-n-butylphthalate	mg/kg	NC	--	--	--	0.39 U	--	0.41 U	0.41 U	--
Fluoranthene	mg/kg	1000	--	--	--	0.14 J	--	0.042 J	0.41 U	--
Fluorene	mg/kg	1000	--	--	--	0.39 U	--	0.41 U	0.41 U	--
Hexachlorobenzene	mg/kg	12	--	--	--	0.39 U	--	0.41 U	0.41 U	--
Hexachlorobutadiene	mg/kg	NC	--	--	--	0.39 U	--	0.41 U	0.41 U	--
Indeno(1,2,3-cd)pyrene	mg/kg	11	--	--	--	0.097 J	--	0.025 J	0.41 U	--
Naphthalene	mg/kg	1000	--	--	--	0.39 U	--	0.41 U	0.41 U	--
Phenanthrene	mg/kg	1000	--	--	--	0.076 J	--	0.035 J	0.41 U	--
Phenol	mg/kg	1000	--	--	--	0.0094 J	--	0.41 U	0.41 U	--
Pyrene	mg/kg	1000	--	--	--	0.13 J	--	0.037 J	0.41 U	--
Metals										
Lead	mg/kg	3900	545	144	816	--	2500 J	18.3 J	--	46.2

Notes:

1.0 - Exceeds Criteria.

U - Not present at the associated value.

J - Estimated concentration.

R - Rejected.

NC - No criteria.

TABLE 3.1

2006 SSI ANALYTICAL RESULTS SUMMARY - SOIL
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

		Location ID:	*BH-4 S2*	*BH-5 S1*	*BH-5 S2*	*BH-5 S3*	*BH-6 S1*	*BH-6 S3*	*BH-7 S1*	*BH-7 S2*
		Sample Name:	*S-37191-050306-PK-039*	*S-37191-050206-PK-020*	*S-37191-050206-PK-021*	*S-37191-050206-PK-022*	*S-37191-050206-PK-011*	*S-37191-050206-PK-012*	*S-37191-050206-PK-013*	*S-37191-050206-PK-014*
		Sample Date:	*5/3/2006*	*5/2/2006*	*5/2/2006*	*5/2/2006*	*5/2/2006*	*5/2/2006*	*5/2/2006*	*5/2/2006*
		Depth:	*2.3 - 3 ft*	*0.5 - 1.2 ft*	*1.6 - 2.5 ft*	*5.5 - 6.5 ft*	*0 - 0.5 ft*	*1.5 - 2 ft*	*0.5 - 1 ft*	*1.4 - 1.8 ft*
Parameters	*Units*	*6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial*								
Volatile Organic Compounds										
Acetone	mg/kg	1000	--	--	120 U	11 U	--	R	--	--
Carbon disulfide	mg/kg	NC	--	--	29 U	2.9 U	--	0.0056 U	--	--
cis-1,2-Dichloroethene	mg/kg	1000	--	--	15 J	1.2 J	--	0.0025 J	--	--
Methylene chloride	mg/kg	1000	--	--	29 U	0.85 J	--	0.0056 U	--	--
Tetrachloroethene	mg/kg	300	--	--	29 U	1.3 J	--	0.0056 U	--	--
Toluene	mg/kg	1000	--	--	29 U	2.9 U	--	0.0056 U	--	--
Trichloroethene	mg/kg	400	--	--	**670**	88	--	0.006	--	--
Semi-volatile Organic Compounds										
2-Methylnaphthalene	mg/kg	NC	--	--	0.17 J	0.27 J	--	0.38 U	--	--
2-Methylphenol	mg/kg	1000	--	--	0.0087 J	0.38 U	--	0.38 U	--	--
4-Methylphenol	mg/kg	1000	--	--	0.38 U	0.38 U	--	0.38 U	--	--
4-Nitroaniline	mg/kg	NC	--	--	1.8 U	1.8 U	--	1.8 U	--	--
Acenaphthene	mg/kg	1000	--	--	0.38 U	0.014 J	--	0.38 U	--	--
Acenaphthylene	mg/kg	1000	--	--	0.38 U	0.38 U	--	0.38 U	--	--
Anthracene	mg/kg	1000	--	--	0.38 U	0.38 U	--	0.38 U	--	--
Benzo(a)anthracene	mg/kg	11	--	--	0.26 J	0.38 U	--	0.38 U	--	--
Benzo(a)pyrene	mg/kg	1.1	--	--	0.11 J	0.04 J	--	0.38 U	--	--
Benzo(b)fluoranthene	mg/kg	11	--	--	0.24 J	0.065 J	--	0.38 U	--	--
Benzo(g,h,i)perylene	mg/kg	1000	--	--	0.059 J	0.025 J	--	0.38 U	--	--
Benzo(k)fluoranthene	mg/kg	110	--	--	0.38 U	0.028 J	--	0.38 U	--	--
bis(2-Ethylhexyl)phthalate	mg/kg	NC	--	--	1	0.9	--	0.38 U	--	--
Butyl benzylphthalate	mg/kg	NC	--	--	0.38 U	0.38 U	--	0.02 J	--	--
Carbazole	mg/kg	NC	--	--	0.38 U	0.38 U	--	0.38 U	--	--
Chrysene	mg/kg	110	--	--	0.38 U	0.38 U	--	0.38 U	--	--
Dibenz(a,h)anthracene	mg/kg	1.1	--	--	0.38 U	0.38 U	--	0.38 U	--	--
Dibenzofuran	mg/kg	1000	--	--	0.026 J	0.016 J	--	0.38 U	--	--
Diethyl phthalate	mg/kg	NC	--	--	0.38 U	0.38 U	--	0.38 U	--	--
Di-n-butylphthalate	mg/kg	NC	--	--	0.46	0.38 U	--	0.38 U	--	--
Fluoranthene	mg/kg	1000	--	--	0.24 J	0.17 J	--	0.38 U	--	--
Fluorene	mg/kg	1000	--	--	0.38 U	0.02 J	--	0.38 U	--	--
Hexachlorobenzene	mg/kg	12	--	--	0.38 U	0.11 J	--	0.38 U	--	--
Hexachlorobutadiene	mg/kg	NC	--	--	0.09 J	0.067 J	--	0.38 U	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	11	--	--	0.091 J	0.03 J	--	0.38 U	--	--
Naphthalene	mg/kg	1000	--	--	0.18 J	0.19 J	--	0.38 U	--	--
Phenanthrene	mg/kg	1000	--	--	0.23 J	0.22 J	--	0.38 U	--	--
Phenol	mg/kg	1000	--	--	0.016 J	0.38 U	--	0.38 U	--	--
Pyrene	mg/kg	1000	--	--	0.13 J	0.079 J	--	0.38 U	--	--
Metals										
Lead	mg/kg	3900	33.9	1470	16.7	--	23.7	--	1.3	**4980**

Notes:

1.0 - Exceeds Criteria.

U - Not present at the associated value.

J - Estimated concentration.

R - Rejected.

NC - No criteria.

TABLE 3.1

2006 SSI ANALYTICAL RESULTS SUMMARY - SOIL
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

		Location ID:	*BH-8 S1*	*BH-8 S2*	*BH-8 S3*	*BH-9 S1*	*BH-9 S2*	*BH-10 S1*	*BH-10 S2*	*BH-11 S1*
		Sample Name:	*S-37191-050206-PK-015*	*S-37191-050206-PK-016*	*S-37191-050206-PK-017*	*S-37191-050206-PK-018*	*S-37191-050206-PK-019*	*S-37191-050206-PK-025*	*S-37191-050206-PK-026*	*S-37191-050106-JRR-003*
		Sample Date:	*5/2/2006*	*5/2/2006*	*5/2/2006*	*5/2/2006*	*5/2/2006*	*5/2/2006*	*5/2/2006*	*5/1/2006*
		Depth:	*0.5 - 1 ft*	*1.4 - 2.1 ft*	*2.9 - 3.3 ft*	*0.5 - 1 ft*	*2 - 2.5 ft*	*0.5 - 1 ft*	*1.3 - 1.8 ft*	*0 - 0.5 ft*
Parameters	***Units***	***6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial***								
Volatile Organic Compounds										
Acetone	mg/kg	1000	--	R	R	--	--	--	--	--
Carbon disulfide	mg/kg	NC	--	0.0063 U	0.0061 U	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	1000	--	0.0023 J	0.0043 J	--	--	--	--	--
Methylene chloride	mg/kg	1000	--	0.0022 J	0.0061 U	--	--	--	--	--
Tetrachloroethene	mg/kg	300	--	0.0063 U	0.0061 U	--	--	--	--	--
Toluene	mg/kg	1000	--	0.0063 U	0.0061 U	--	--	--	--	--
Trichloroethene	mg/kg	400	--	0.028	0.015	--	--	--	--	--
Semi-volatile Organic Compounds										
2-Methylnaphthalene	mg/kg	NC	--	0.4 U	0.41 U	--	--	--	--	--
2-Methylphenol	mg/kg	1000	--	0.4 U	0.41 U	--	--	--	--	--
4-Methylphenol	mg/kg	1000	--	0.4 U	0.41 U	--	--	--	--	--
4-Nitroaniline	mg/kg	NC	--	2 U	2 U	--	--	--	--	--
Acenaphthene	mg/kg	1000	--	0.4 U	0.41 U	--	--	--	--	--
Acenaphthylene	mg/kg	1000	--	0.4 U	0.41 U	--	--	--	--	--
Anthracene	mg/kg	1000	--	0.4 U	0.41 U	--	--	--	--	--
Benzo(a)anthracene	mg/kg	11	--	0.4 U	0.41 U	--	--	--	--	--
Benzo(a)pyrene	mg/kg	1.1	--	0.015 J	0.41 U	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	11	--	0.026 J	0.41 U	--	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	1000	--	0.019 J	0.41 U	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	110	--	0.0092 J	0.41 U	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	mg/kg	NC	--	0.4 U	0.41 U	--	--	--	--	--
Butyl benzylphthalate	mg/kg	NC	--	0.021 J	0.024 J	--	--	--	--	--
Carbazole	mg/kg	NC	--	0.4 U	0.41 U	--	--	--	--	--
Chrysene	mg/kg	110	--	0.4 U	0.41 U	--	--	--	--	--
Dibenz(a,h)anthracene	mg/kg	1.1	--	0.4 U	0.41 U	--	--	--	--	--
Dibenzofuran	mg/kg	1000	--	0.4 U	0.41 U	--	--	--	--	--
Diethyl phthalate	mg/kg	NC	--	0.4 U	0.41 U	--	--	--	--	--
Di-n-butylphthalate	mg/kg	NC	--	0.4 U	0.41 U	--	--	--	--	--
Fluoranthene	mg/kg	1000	--	0.013 J	0.41 U	--	--	--	--	--
Fluorene	mg/kg	1000	--	0.4 U	0.41 U	--	--	--	--	--
Hexachlorobenzene	mg/kg	12	--	0.4 U	0.41 U	--	--	--	--	--
Hexachlorobutadiene	mg/kg	NC	--	0.4 U	0.41 U	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	11	--	0.02 J	0.41 U	--	--	--	--	--
Naphthalene	mg/kg	1000	--	0.4 U	0.41 U	--	--	--	--	--
Phenanthrene	mg/kg	1000	--	0.011 J	0.41 U	--	--	--	--	--
Phenol	mg/kg	1000	--	0.4 U	0.41 U	--	--	--	--	--
Pyrene	mg/kg	1000	--	0.013 J	0.41 U	--	--	--	--	--
Metals										
Lead	mg/kg	3900	0.47	11.1	--	**9250**	241	4.1 J	12.4 J	354

Notes:

1.0 - Exceeds Criteria.

U - Not present at the associated value.

J - Estimated concentration.

R - Rejected.

NC - No criteria.

TABLE 3.1

2006 SSI ANALYTICAL RESULTS SUMMARY - SOIL
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

		Location ID:	*BH-11 S2*	*BH-12 S1*	*BH-12 S2*	*BH-12 S3*	*BH-13 S1*	*BH-13 S2*	*BH-13 S3*	*BH-14 S1*
		Sample Name:	*S-37191-050106-JRR-004*	*S-37191-050306-PK-032*	*S-37191-050306-PK-033*	*S-37191-050306-PK-034*	*S-37191-050306-PK-035*	*S-37191-050306-PK-036*	*S-37191-050306-PK-037*	*S-37191-050206-PK-030*
		Sample Date:	*5/1/2006*	*5/3/2006*	*5/3/2006*	*5/3/2006*	*5/3/2006*	*5/3/2006*	*5/3/2006*	*5/2/2006*
		Depth:	*0.5 - 3 ft*	*0.3 - 1 ft*	*1.2 - 2.5 ft*	*4 - 5 ft*	*0.5 - 1.1 ft*	*1.5 - 2.5 ft*	*4 - 5 ft*	*0.5 - 1.5 ft*
Parameters	***Units***	***6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial***								
Volatile Organic Compounds										
Acetone	mg/kg	1000	--	--	R	R	--	R	R	--
Carbon disulfide	mg/kg	NC	--	--	0.0061 U	0.0061 U	--	0.0066 U	0.0064 U	--
cis-1,2-Dichloroethene	mg/kg	1000	--	--	0.0061 U	0.0061 U	--	0.0066 U	0.0064 U	--
Methylene chloride	mg/kg	1000	--	--	0.0061 U	0.0061 U	--	0.0066 U	0.0064 U	--
Tetrachloroethene	mg/kg	300	--	--	0.0061 U	0.0061 U	--	0.0066 U	0.0064 U	--
Toluene	mg/kg	1000	--	--	0.0061 U	0.0061 U	--	0.0066 U	0.0064 U	--
Trichloroethene	mg/kg	400	--	--	0.0061 U	0.0061 U	--	0.0014 J	0.0064 U	--
Semi-volatile Organic Compounds										
2-Methylnaphthalene	mg/kg	NC	--	--	0.059 J	0.41 U	--	0.065 J	0.41 U	--
2-Methylphenol	mg/kg	1000	--	--	0.77 U	0.41 U	--	0.81 U	0.41 U	--
4-Methylphenol	mg/kg	1000	--	--	0.77 U	0.41 U	--	0.81 U	0.41 U	--
4-Nitroaniline	mg/kg	NC	--	--	3.7 U	2 U	--	3.9 U	2 U	--
Acenaphthene	mg/kg	1000	--	--	0.089 J	0.41 U	--	0.022 J	0.41 U	--
Acenaphthylene	mg/kg	1000	--	--	0.081 J	0.41 U	--	0.81 U	0.41 U	--
Anthracene	mg/kg	1000	--	--	0.22 J	0.41 U	--	0.052 J	0.41 U	--
Benzo(a)anthracene	mg/kg	11	--	--	0.7 J	0.01 J	--	1.3	0.013 J	--
Benzo(a)pyrene	mg/kg	1.1	--	--	0.68 J	0.41 U	--	**1.3**	0.012 J	--
Benzo(b)fluoranthene	mg/kg	11	--	--	0.85	0.011 J	--	2.7	0.024 J	--
Benzo(g,h,i)perylene	mg/kg	1000	--	--	0.52 J	0.41 U	--	1.3	0.013 J	--
Benzo(k)fluoranthene	mg/kg	110	--	--	0.34 J	0.41 U	--	0.97	0.0097 J	--
bis(2-Ethylhexyl)phthalate	mg/kg	NC	--	--	0.049 J	0.41 U	--	0.81 U	0.41 U	--
Butyl benzylphthalate	mg/kg	NC	--	--	0.052 J	0.021 J	--	0.81 U	0.026 J	--
Carbazole	mg/kg	NC	--	--	0.13 J	0.41 U	--	0.064 J	0.41 U	--
Chrysene	mg/kg	110	--	--	0.78	0.0092 J	--	2.1	0.016 J	--
Dibenz(a,h)anthracene	mg/kg	1.1	--	--	0.13 J	0.41 U	--	0.5 J	0.41 U	--
Dibenzofuran	mg/kg	1000	--	--	0.057 J	0.41 U	--	0.035 J	0.41 U	--
Diethyl phthalate	mg/kg	NC	--	--	0.77 U	0.41 U	--	0.81 U	0.41 U	--
Di-n-butylphthalate	mg/kg	NC	--	--	0.77 U	0.41 U	--	0.81 U	0.41 U	--
Fluoranthene	mg/kg	1000	--	--	1.5	0.017 J	--	1.4	0.013 J	--
Fluorene	mg/kg	1000	--	--	0.087 J	0.41 U	--	0.81 U	0.41 U	--
Hexachlorobenzene	mg/kg	12	--	--	0.77 U	0.41 U	--	0.81 U	0.41 U	--
Hexachlorobutadiene	mg/kg	NC	--	--	0.77 U	0.41 U	--	0.81 U	0.41 U	--
Indeno(1,2,3-cd)pyrene	mg/kg	11	--	--	0.56 J	0.41 U	--	1.4	0.014 J	--
Naphthalene	mg/kg	1000	--	--	0.068 J	0.41 U	--	0.064 J	0.41 U	--
Phenanthrene	mg/kg	1000	--	--	0.87	0.015 J	--	0.35 J	0.41 U	--
Phenol	mg/kg	1000	--	--	0.77 U	0.41 U	--	0.018 J	0.41 U	--
Pyrene	mg/kg	1000	--	--	1.1	0.012 J	--	1.1	0.41 U	--
Metals										
Lead	mg/kg	3900	106	96.8	54.9	--	2.8	53.2	--	86.5 J

Notes:

1.0 - Exceeds Criteria.

U - Not present at the associated value.

J - Estimated concentration.

R - Rejected.

NC - No criteria.

TABLE 3.1

2006 SSI ANALYTICAL RESULTS SUMMARY - SOIL
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

		Location ID:	*BH-14 S2*	*BH-15 S1*	*BH-15 S2*	*BH-16 S1*	*BH-16 S2*	*BH-17 S1*	*BH-17 S2*
		Sample Name:	*S-37191-050206-PK-031*	*S-37191-050206-PK-007*	*S-37191-050206-PK-008*	*S-37191-050206-PK-009*	*S-37191-050206-PK-010*	*S-37191-050206-PK-005*	*S-37191-050206-PK-006*
		Sample Date:	*5/2/2006*	*5/2/2006*	*5/2/2006*	*5/2/2006*	*5/2/2006*	*5/2/2006*	*5/2/2006*
		Depth:	*2.5 - 3 ft*	*1.5 - 2 ft*	*3 - 3.5 ft*	*0.75 - 1.2 ft*	*2.5 - 3.2 ft*	*0 - 0.5 ft*	*1 - 1.5 ft*
Parameters	*Units*	*6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial*							
Volatile Organic Compounds									
Acetone	mg/kg	1000	--	--	--	--	--	--	--
Carbon disulfide	mg/kg	NC	--	--	--	--	--	--	--
cis-1,2-Dichloroethene	mg/kg	1000	--	--	--	--	--	--	--
Methylene chloride	mg/kg	1000	--	--	--	--	--	--	--
Tetrachloroethene	mg/kg	300	--	--	--	--	--	--	--
Toluene	mg/kg	1000	--	--	--	--	--	--	--
Trichloroethene	mg/kg	400	--	--	--	--	--	--	--
Semi-volatile Organic Compounds									
2-Methylnaphthalene	mg/kg	NC	--	--	--	--	--	--	--
2-Methylphenol	mg/kg	1000	--	--	--	--	--	--	--
4-Methylphenol	mg/kg	1000	--	--	--	--	--	--	--
4-Nitroaniline	mg/kg	NC	--	--	--	--	--	--	--
Acenaphthene	mg/kg	1000	--	--	--	--	--	--	--
Acenaphthylene	mg/kg	1000	--	--	--	--	--	--	--
Anthracene	mg/kg	1000	--	--	--	--	--	--	--
Benzo(a)anthracene	mg/kg	11	--	--	--	--	--	--	--
Benzo(a)pyrene	mg/kg	1.1	--	--	--	--	--	--	--
Benzo(b)fluoranthene	mg/kg	11	--	--	--	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	1000	--	--	--	--	--	--	--
Benzo(k)fluoranthene	mg/kg	110	--	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	mg/kg	NC	--	--	--	--	--	--	--
Butyl benzylphthalate	mg/kg	NC	--	--	--	--	--	--	--
Carbazole	mg/kg	NC	--	--	--	--	--	--	--
Chrysene	mg/kg	110	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	mg/kg	1.1	--	--	--	--	--	--	--
Dibenzofuran	mg/kg	1000	--	--	--	--	--	--	--
Diethyl phthalate	mg/kg	NC	--	--	--	--	--	--	--
Di-n-butylphthalate	mg/kg	NC	--	--	--	--	--	--	--
Fluoranthene	mg/kg	1000	--	--	--	--	--	--	--
Fluorene	mg/kg	1000	--	--	--	--	--	--	--
Hexachlorobenzene	mg/kg	12	--	--	--	--	--	--	--
Hexachlorobutadiene	mg/kg	NC	--	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	11	--	--	--	--	--	--	--
Naphthalene	mg/kg	1000	--	--	--	--	--	--	--
Phenanthrene	mg/kg	1000	--	--	--	--	--	--	--
Phenol	mg/kg	1000	--	--	--	--	--	--	--
Pyrene	mg/kg	1000	--	--	--	--	--	--	--
Metals									
Lead	mg/kg	3900	45.9 J	804	9.8	422	19.4	282	270

Notes:

1.0 - Exceeds Criteria.

U - Not present at the associated value.

J - Estimated concentration.

R - Rejected.

NC - No criteria.

TABLE 3.2

2006 SSI ANALYTICAL RESULTS SUMMARY - GROUNDWATER
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

				Location ID:	*MW-4*	*MW-5*	*MW-5*	*MW-6*	*MW-7*	*MW-8*	*MW-9*
				Sample Name:	*GW-37191-051106-JRR-003*	*GW-37191-051106-JRR-006*	*GW-37191-051106-JRR-007*	*GW-37191-051106-JRR-002*	*GW-37191-051106-JRR-001*	*GW-37191-051106-JRR-004*	*GW-37191-051106-JRR-005*
				Sample Date:	*5/11/2006*	*5/11/2006*	*5/11/2006*	*5/11/2006*	*5/11/2006*	*5/11/2006*	*5/11/2006*
							Duplicate				
		New York State Water Quality									
Parameters	*Units*	*Standards*	*Guidance Values*								
Volatile Organic Compounds											
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	NC	NC		100 U	30000 U	30000 U	1200 U	5.0 U	3.0 J	5.0 U
Acetone	ug/L	NC	50		400 U	120000 U	120000 U	5000 U	20 U	20 U	20 U
cis-1,2-Dichloroethene	ug/L	5	NC		960	130000	140000	24000	5.0 U	8.5	5.0 U
Methyl Tert Butyl Ether	ug/L	NC	10		100 U	30000 U	30000 U	1200 U	1.1 J	5.0 U	5.0 U
Trichloroethene	ug/L	5	NC		1600	540000	600000	12000	5.0 U	31	5.0 U
Vinyl chloride	ug/L	2	NC		100 U	30000 U	30000 U	570 J	5.0 U	5.0 U	5.0 U
Semi-volatile Organic Compounds											
2-Methylnaphthalene	ug/L	NC	NC		--	--	--	--	--	--	--
Caprolactam	ug/L	NC	NC		--	--	--	--	--	--	--
Dibenzofuran	ug/L	NC	NC		--	--	--	--	--	--	--
Fluoranthene	ug/L	NC	50		--	--	--	--	--	--	--
Naphthalene	ug/L	10	10		--	--	--	--	--	--	--
Metals											
Lead	ug/L	25	NC		--	--	--	--	--	46.0	--
Lead (Dissolved)	ug/L	25	NC		--	--	--	--	--	3.0 U	--

Notes:

1.0 - Exceeds Criteria.
- - Not analyzed
U - Not present at the associated value.
J - Estimated concentration.
B - Compound detected in an associated blank.
D - Reported from a diluted analysis.
E - Exceeds the linear range of the instrument.
N - Tentatively identified.
P - Greater than 25% difference between concentrations detected on the two GC columns.
NC - No criteria.

TABLE 4.1

SUMMARY OF SURFACE SOIL SAMPLE COLLECTION AND ANALYSIS DETAILS
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

						Analysis/Parameters								
Sample ID	*Location*	*Sample Date*	*Sample Depth*	*Sample Type*	*Parent Sample ID*	*TCL VOCs*	*TCL SVOCs*	*Lead*	*TAL Metals + CN*	*Pesticides*	*Herbicides*	*PCBs*	*% Solids*	*Purpose*
Surface Soil														
SS-37191-050708-CMB-001	148 Milton Street (SS-7)	05/07/08	0-2"	N	-			X						To identify off-Site Impacts
SS-37191-050708-CMB-002	148 Milton Street (SS-7)	05/07/08	2-4"	N	-			X						To identify off-Site Impacts
SS-37191-050708-CMB-003	138 Harrison Street (SS-6)	05/07/08	0-2"	N	-			X						To identify off-Site Impacts
SS-37191-050708-CMB-004	138 Harrison Street (SS-6)	05/07/08	2-4"	N	-			X						To identify off-Site Impacts
SS-37191-050708-CMB-005	103 Harrison Street (SS-10)	05/07/08	0-2"	N	-				X					To identify off-Site Impacts
SS-37191-050708-CMB-006	103 Harrison Street (SS-10)	05/07/08	2-4"	N	-				X					To identify off-Site Impacts
SS-37191-050708-CMB-007	36 Lester Street (SS-16)	05/07/08	0-2"	N	-			X						To identify off-Site Impacts
SS-37191-050708-CMB-008	36 Lester Street (SS-16)	05/07/08	0-2"	FD	SS-37191-050708-CMB-007			X						Duplicate Sample
SS-37191-050708-CMB-009	36 Lester Street (SS-16)	05/07/08	2-4"	N	-			X						To identify off-Site Impacts
SS-37191-050708-CMB-010	22 Lester Street (SS-15)	05/07/08	0-2"	N	-			X						To identify off-Site Impacts
SS-37191-050708-CMB-011	22 Lester Street (SS-15)	05/07/08	2-4"	N	-			X						To identify off-Site Impacts
SS-37191-050708-CMB-012	20 Hayes Place (SS-14)	05/07/08	0-2"	N	-			X						To identify off-Site Impacts
SS-37191-050708-CMB-013	20 Hayes Place (SS-14)	05/07/08	2-4"	N	-			X						To identify off-Site Impacts
SS-37191-050708-CMB-014	34 Hayes Place (SS-13)	05/07/08	0-2"	N	-			X						To identify off-Site Impacts
SS-37191-050708-CMB-015	34 Hayes Place (SS-13)	05/07/08	2-4"	N	-			X						To identify off-Site Impacts
SS-37191-050708-CMB-016	34 Hayes Place (SS-12)	05/07/08	0-2"	N	-			X						To identify off-Site Impacts
SS-37191-050708-CMB-017	34 Hayes Place (SS-12)	05/07/08	2-4"	N	-			X						To identify off-Site Impacts
SS-37191-050708-CMB-018	Soil Mound (SS-1)	05/07/08	0-2"	N	-			X						Comparison of off-Site Results
SS-37191-050708-CMB-019	Soil Mound (SS-1)	05/07/08	2-4"	N	-			X						Comparison of off-Site Results
SS-37191-050708-CMB-020	NE Corner Harrison St. Warehouse (SS-2)	05/07/08	0-2"	N	-			X						Comparison of off-Site Results
SS-37191-050708-CMB-021	NE Corner Harrison St. Warehouse (SS-2)	05/07/08	2-4"	N	-			X						Comparison of off-Site Results
SS-37191-050708-CMB-022	West End Harrison St. Warehouse (SS-11)	05/07/08	0-2"	N	-			X						Comparison of off-Site Results
SS-37191-050708-CMB-023	West End Harrison St. Warehouse (SS-11)	05/07/08	2-4"	N	-			X						Comparison of off-Site Results
SS-37191-050808-CMB-001	55 Lester Street North (SS-3)	05/08/08	0-2"	N	-			X						To identify off-Site Impacts
SS-37191-050808-CMB-002	55 Lester Street North (SS-3)	05/08/08	2-4"	N	-			X						To identify off-Site Impacts
SS-37191-050808-CMB-003	55 Lester Street South (SS-4)	05/08/08	0-2"	N	-			X						To identify off-Site Impacts
SS-37191-050808-CMB-004	55 Lester Street South (SS-4)	05/08/08	2-4"	N	-			X						To identify off-Site Impacts
SS-37191-050808-CMB-005	58 Lester Street (SS-5)	05/08/08	0-2"	N	-			X						To identify off-Site Impacts
SS-37191-050808-CMB-006	58 Lester Street (SS-5)	05/08/08	2-4"	N	-			X						To identify off-Site Impacts
SS-37191-050808-CMB-007	127 Harrison Street Backyard (SS-9)	05/08/08	0-2"	N	-			X						To identify off-Site Impacts
SS-37191-050808-CMB-008	127 Harrison Street Backyard (SS-9)	05/08/08	2-4"	N	-			X						To identify off-Site Impacts
SS-37191-050808-CMB-009	127 Harrison Street Front Yard (SS-8)	05/08/08	0-2"	N	-			X						To identify off-Site Impacts
SS-37191-050808-CMB-010	127 Harrison Street Front Yard (SS-8)	05/08/08	2-4"	N	-			X						To identify off-Site Impacts
SS-37191-081308-CB-001	82 Harrison Street (SS-17)	08/13/08	0-2"	N	-				X					To identify off-Site Impacts

TABLE 4.1

SUMMARY OF SURFACE SOIL SAMPLE COLLECTION AND ANALYSIS DETAILS
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

						Analysis/Parameters								
Sample ID	*Location*	*Sample Date*	*Sample Depth*	*Sample Type*	*Parent Sample ID*	*TCL VOCs*	*TCL SVOCs*	*Lead*	*TAL Metals + CN*	*Pesticides*	*Herbicides*	*PCBs*	*% Solids*	*Purpose*
Surface Soil														
SS-37191-081308-CB-002	82 Harrison Street (SS-17)	08/13/08	2-4"	N	-				X					To identify off-Site Impacts
SS-37191-081308-CB-003	82 Harrison Street (SS-18)	08/13/08	0-2"	N	-				X					To identify off-Site Impacts
SS-37191-081308-CB-004	82 Harrison Street (SS-18)	08/13/08	2-4"	N	-				X					To identify off-Site Impacts
SS-37191-081308-CB-005	118 Harrison Street (SS-19)	08/13/08	0-2"	N	-			X						To identify off-Site Impacts
SS-37191-081308-CB-006	118 Harrison Street (SS-19)	08/13/08	2-4"	N	-			X						To identify off-Site Impacts
SS-37191-081308-CB-007	118 Harrison Street (SS-20)	08/13/08	0-2"	N	-				X					To identify off-Site Impacts
SS-37191-081308-CB-008	118 Harrison Street (SS-20)	08/13/08	2-4"	N	-				X					To identify off-Site Impacts
SS-37191-081308-CB-009	118 Harrison Street (SS-21)	08/13/08	0-2"	N	-			X						To identify off-Site Impacts
SS-37191-081308-CB-010	118 Harrison Street (SS-21)	08/13/08	2-4"	N	-			X						To identify off-Site Impacts
SS-37191-081308-CB-011	118 Harrison Street (SS-22)	08/13/08	0-2"	N	-			X						To identify off-Site Impacts
SS-37191-081308-CB-012	118 Harrison Street (SS-22)	08/13/08	2-4"	N	-			X						To identify off-Site Impacts
SS-37191-081308-CB-013	118 Harrison Street (SS-23)	08/13/08	0-2"	N	-			X						To identify off-Site Impacts
SS-37191-081308-CB-014	118 Harrison Street (SS-23)	08/13/08	2-4"	N	-			X						To identify off-Site Impacts
SS-37191-081308-CB-015	118 Harrison Street (SS-24)	08/13/08	0-2"	N	-				X					To identify off-Site Impacts
SS-37191-081308-CB-016	118 Harrison Street (SS-24)	08/13/08	2-4"	N	-				X					To identify off-Site Impacts
SS-37191-081308-CB-017	66 Lester Street (SS-25)	08/13/08	0-2"	N	-				X					To identify off-Site Impacts
SS-37191-081308-CB-018	66 Lester Street (SS-25)	08/13/08	2-4"	N	-				X					To identify off-Site Impacts
SS-37191-081308-CB-019	66 Lester Street (SS-25)	08/13/08	2-4"	FD	SS-37191-081308-CB-019				X					To identify off-Site Impacts

Notes:

'	Feet.
"	Inches.
CN	Cyanide.
SVOCs	Semi-volatile Organic Compounds.
TCL	Target Compound List.
VOCs	Volatile Organic Compounds.
N	Normal Sample
FD	Duplicate Sample

TABLE 4.2

SUMMARY OF SUBSURFACE SOIL SAMPLE COLLECTION AND ANALYSIS DETAILS
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Sample ID	*Location*	*Sample Date*	*Sample Depth*	*Sample Type*	*Parent Sample ID*	*TCL VOCs*	*TCL SVOCs*	*Lead*	*TAL Metals + CN*	*Pesticides*	*Herbicides*	*PCBs*	*% Solids*	*Purpose*
SO-37191-072507-RN-SB-1	SB-1-07	07/25/07	2.0'-4.0'	N	-	X	X		X	X	X	X	X	Further characterize soil on north side of building
SO-37191-072707-RN-SB-2	SB-2-07	07/27/07	6.5'-8.0'	N	-	X	X	X						Characterize soil mound
SO-37191-072707-RN-SB-20	SB-2-07	07/27/07	6.5'-8.0'	FD	SO-37191-072707-RN-SB-2	X	X	X						Duplicate Sample
SO-37191-072707-RN-SB-3	SB-3-07	07/27/07	10.0'-13.0'	N	-	X	X		X	X	X	X	X	Characterize soil mound
SO-37191-072707-RN-SB-4	SB-4-07	07/27/07	2.0'-4.0'	N	-	X	X	X						Characterize soil mound
SO-37191-072507-RN-SB-5	SB-5-07	07/25/07	4.0'-8.0'	N	-	X	X		X	X	X	X	X	Further characterize soil in Parking Area
SO-37191-073007-CB-SB19	SB-6-07	07/30/07	6.0'-10.4'	N	-	X	X	X						Characterize soil east of Harrison St. Warehouse
SO-37191-073007-CB-SB-6	SB-6-07	07/30/07	6.0'-10.4'	FD	SO-37191-073007-CB-SB19	X	X	X						Duplicate Sample
SO-37191-072507-RN-SB-7	SB-7-07	07/25/07	3.0'-6.0'	N	-	X	X	X						Characterize soil east of Harrison St. Warehouse
SO-37191-072507-RN-SB-8	SB-8-07	07/25/07	3.5'-8.0'	N	-	X	X		X	X	X	X	X	Characterize soil east of Harrison St. Warehouse
SO-37191-072507-RN-SB-9	SB-9-07	07/25/07	3.0'-6.0'	N	-	X	X	X						Characterize soil east of Harrison St. Warehouse
SO-37191-072507-RN-SB-10	SB-10-07	07/25/07	3.0'-8.0'	N	-	X	X	X						Characterize soil east of Harrison St. Warehouse
SO-37191-072607-RN-SB-11	SB-11-07	07/26/07	2.0-'6.0'	N	-	X	X	X						Characterize soil under Harrison St. Warehouse
SO-37191-072607-RN-SB-12	SB-12-07	07/26/07	3.5'-6.0'	N	-	X	X		X	X	X	X	X	Characterize soil under Harrison St. Warehouse
SO-37191-072607-RN-SB-13	SB-13-07	07/26/07	6.0'-8.0'	N	-	X	X	X						Characterize soil under Harrison St. Warehouse
SO-37191-072607-RN-SB-14	SB-14-07	07/26/07	4.0'-8.0'	N	-	X	X	X						Characterize soil under Harrison St. Warehouse
SO-37191-072607-RN-SB-15	SB-15-07	07/26/07	4.0'-8.0'	N	-	X	X	X						Characterize soil under Harrison St. Warehouse
SO-37191-072607-RN-SB-16	SB-16-07	07/26/07	4.0'-8.0'	N	-	X	X	X						Characterize soil under Harrison St. Warehouse
SO-37191-072707-RN-SB-17	SB-17-07	07/27/07	6.0'-10.0'	N	-	X	X	X						Characterize soil mound
SO-37191-072707-RN-SB-27	SB-17-07	07/27/07	6.0'-10.0'	FD	SO-37191-072707-RN-SB-17	X	X	X						Duplicate Sample
SO-37191-073007-CB-SB-18	SB-18-07	07/30/07	4.0'-7.2'	N	-	X	X		X	X	X	X	X	Characterize soil near southern Site boundary
SB-37191-050908-JP-001	SB-18-08	05/09/08	0'-2.0'	N	-	X	X		X	X	X	X	X	To identify off-Site Impacts
SB-37191-050808-JP-011	MW-14	05/08/08	0'-2.0'	N	-	X	X		X	X	X	X	X	To identify off-Site Impacts
SB-37191-050908-JP-002	MW-17	05/09/08	0'-2.0'	N	-	X	X		X	X	X	X	X	To identify off-Site Impacts
SO-37191-052709-JJW-001	MW-6A	05/27/09	6'-8'	N	-	X								Further characterize on-Site soils
SO-37191-052709-JJW-002	MW-19A	05/27/09	6'-8'	N	-	X								Further characterize on-Site soils
SO-37191-060109-JJW-003	MW-20A	06/01/09	6'-8'	N	-	X								Further characterize on-Site soils
SO-37191-060109-JJW-004	MW-21A	06/01/09	2'-4'	N	-	X								Further characterize on-Site soils
SO-37191-060109-JJW-005	MW-22A	06/01/09	10'-12'	N	-	X								Identify off-Site impacts
SO-37191-060209-JJW-006	MW-23A	06/02/09	12'-14'	N	-	X								Identify off-Site impacts
SO-37191-060409-JJW-007	MW-20	06/04/09	2'-4'	N	-	X								Further characterize on-Site soils

TABLE 4.2

SUMMARY OF SUBSURFACE SOIL SAMPLE COLLECTION AND ANALYSIS DETAILS
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Sample ID	*Location*	*Sample Date*	*Sample Depth*	*Sample Type*	*Parent Sample ID*	*TCL VOCs*	*TCL SVOCs*	*Lead*	*TAL Metals + CN*	*Pesticides*	*Herbicides*	*PCBs*	*% Solids*	*Purpose*
SO-37191-060409-JJW-008	MW-19	06/04/09	6'-8'	N	-	X								Further characterize on-Site soils
SO-37191-060409-JJW-009	MW-19	06/04/09	6'-8'	FD	SO-37191-060409-JJW-008	X								Duplicate Sample
SO-37191-060809-JJW-010	MW-22	06/08/09	10'-12'	N	-	X								Further characterize on-Site soils
SO-37191-062209-JJW-011	MW-24A	06/22/09	0'-2'	N	-	X								Identify off-Site impacts
SO-37191-062209-JJW-012	MW-25A	06/22/09	4'-6'	N	-	X								Identify off-Site impacts
SO-37191-062209-JJW-013	MW-25A	06/22/09	6'-8'	N	-	X								Identify off-Site impacts

Notes:

'	Feet.
"	Inches.
CN	Cyanide.
SVOCs	Semi-volatile Organic Compounds.
TCL	Target Compound List.
VOCs	Volatile Organic Compounds.
N	Normal Sample
FD	Duplicate Sample

TABLE 4.3

SUMMARY OF MONITORING WELL INFORMATION AND GROUNDWATER SAMPLE COLLECTION AND ANALYSIS DETAILS
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

											Analysis/Parameters								
Well ID	*Date of Installation*	*Sample / Measurment Date* [2]	*Top of Riser Elevation (ft above AMSL)*	*Bottom of Well Elevation (ft above AMSL)*	*Depth to Water (ft below top of riser)*	*Water Elevation (ft above AMSL)*	*Sampling Method*	*Sample ID*	*Sample Type*	*Parent Sample ID* (Sample ID of original sample for duplicates, etc.)	*TCL VOCs*	*TCL SVOCs*	*Total TAL Metals +CN*	*Dissolved TAL Metals*	*Total Lead*	*Dissolved Lead*	*Pesticides*	*Herbicides*	*PCBs*
MW-4	May-06	08/21/07	596.13	587.4	6.94	589.19	Bailer	WG-37191-082107-RN-001	N	-	X	X	X	X			X	X	X
		08/21/07			-	-	Bailer	WG-37191-082107-RN-002	FD	WG-37191-082107-RN-001	X	X	X	X			X	X	X
		05/28/08			5.00	591.13	Low Flow	WG-37191-052808-003	N	-	X	X	X	X			X	X	X
		05/28/08			-	-	Low Flow	WG-37191-052808-004	FD	WG-37191-052808-003	X								
		01/13/09			5.39	590.74	Low Flow	GW-37191-011309-JJW-002	N	-	X								
		07/22/09			5.84	590.29	Low Flow	WG-37191-072209-037	N	-	X								
MW-5	May-06	08/21/07	596.58	587.71	7.56	589.02	Bailer	WG-37191-082107-RN-003	N	-	X				X	X			
		05/28/08			4.42	592.16	Low Flow	WG-37191-052808-008	N	-	X				X	X			
		01/20/09			3.67	592.91	Low Flow	GW-37191-012009-JJW-011	N	-	X								
		07/22/09			5.47	591.11	Low Flow	WG-37191-072209-040	N	-	X								
MW-5A	Dec-08	01/20/09	596.29	579.33	NM	NM	Low Flow	GW-37191-012009-JJW-012	N	-	X								
		07/22/09			NM	NM	Low Flow	WG-37191-072209-038	N	-	X								
		07/22/09			-	-	Low Flow	WG-37191-072209-039	FD	WG-37191-072209-038	X								
MW-6	May-06	08/20/07	594.15	585.64	9.00	585.15	Bailer	NS	-	-									
		05/28/08			6.87	587.28	Low Flow	WG-37191-052808-002	N	-	X				X	X			
		01/20/09			6.52	587.63	Low Flow	GW-37191-012009-JJW-009	N	-	X								
		07/22/09			7.82	586.33	Low Flow	WG-37191-072209-035	N	-	X								
MW-6A	Jun-09	07/22/09	594.15	573.04	5.40	588.75	Low Flow	WG-37191-072209-033	N	-	X								
MW-7	May-06	01/21/09	592.03	583.78	1.88	590.15	Low Flow	GW-37191-012109-JJW-013	N	-	X								
		07/22/09			2.12	589.91	Low Flow	WG-37191-072209-030	N	-	X								
MW-7A	Dec-08	01/21/09	592.31	576.44	3.05	589.26	Low Flow	GW-37191-012109-JJW-014	N	-	X								
		07/22/09			3.14	589.17	Low Flow	WG-37191-072209-029	N	-	X								
MW-8	May-06	08/21/07	594.00	586.93	4.51	589.49	Bailer	WG-37191-082107-RN-006	N	-	X				X	X			
		05/28/08			2.52	591.48	Low Flow	WG-37191-052808-005	N	-	X				X	X			
		03/05/09			4.86	589.14	Low Flow	WG-37191-030509-001	N	-	X								
		07/21/09			3.54	590.46	Low Flow	WG-37191-072109-018	N	-	X								
MW-9	May-06	08/21/07	594.81	588.79	5.06	589.75	Bailer	WG-37191-082107-RN-007	N	-	X	X	X	X			X	X	X
		05/28/08			1.71	593.10	Low Flow	WG-37191-052808-001	N	-	X	X	X	X			X	X	X
		01/19/09			1.57	593.24	Low Flow	GW-37191-011909-JJW-006	N	-	X								
		07/21/09			2.75	592.06	Low Flow	WG-37191-072109-015	N	-	X								
MW-9A	Dec-08	01/19/09	594.94	567.98	11.02	583.92	Low Flow	GW-37191-011909-JJW-007	N	-	X								
		07/21/09			11.18	583.76	Low Flow	WG-37191-072109-014	N	-	X								
MW-10	Aug-08	09/19/08	596.45	587.25	7.61	588.84	Low Flow	WG-37191-091908-002	N	-	X				X	X			
		01/22/09			7.78	588.67	Low Flow	GW-37191-012209-JJW-015	N	-	X								
		07/20/09			7.82	588.63	Low Flow	WG-37191-072009-011	N	-	X								
MW-11	Aug-08	09/19/08	595.04	586.01	5.22	589.82	Low Flow	WG-37191-091908-001	N	-	X				X	X			
		01/22/09			5.61	589.43	Low Flow	GW-37191-012209-JJW-016	N	-	X								
		01/22/09			-	-	Low Flow	GW-37191-012209-JJW-017	FD	GW-37191-012209-JJW-016	X								
		07/20/09			6.41	588.63	Low Flow	WG-37191-072009-006	N	-	X								
MW-12 [1]	Jul-07	08/21/07	599.83	587.14	10.71	589.12	Bailer	WG-37191-082107-RN-004	N	-	X				X	X			
		08/21/07			-	-	Bailer	WG-37191-082107-RN-005	FD	WG-37191-082107-RN-004	X				X	X			
		05/28/08			9.15	590.68	Low Flow	WG-37191-052808-006	N	-	X				X	X			
		05/28/08			-	-	Low Flow	WG-37191-052808-007	FD	WG-37191-052808-006	X				X	X			
		01/13/09			8.82	591.01	Low Flow	GW-37191-011309-JJW-005	N	-	X								
		07/22/09			9.38	590.45	Low Flow	WG-37191-072209-036	N	-	X								
MW-13	Jul-07	08/20/07	594.83	587.67	DRY	DRY	NS	NS	-	-									
		05/28/08			DRY	DRY	NS	NS	-	-									
		01/19/09			DRY	DRY	NS	NS	-	-									
		07/22/09			DRY	DRY	NS	NS	-	-									

TABLE 4.3

SUMMARY OF MONITORING WELL INFORMATION AND GROUNDWATER SAMPLE COLLECTION AND ANALYSIS DETAILS
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

										Analysis/Parameters								
Well ID	*Date of Installation*	*Sample / Measurment Date* [2]	*Top of Riser Elevation (ft above AMSL)*	*Bottom of Well Elevation (ft above AMSL)*	*Depth to Water (ft below top of riser)*	*Water Elevation (ft above AMSL)*	*Sampling Method*	*Sample ID*	*Sample Type*	*Parent Sample ID* (Sample ID of original sample for duplicates, etc.)	*TCL VOCs*	*TCL SVOCs*	*Total TAL Metals +CN*	*Dissolved TAL Metals*	*Total Lead*	*Dissolved Lead*	*Pesticides*	*Herbicides*	*PCBs*
MW-13A	Dec-08	01/19/09	594.75	580.41	6.16	588.59	Low Flow	GW-37191-011909-JJW-008	N		X								
		07/22/09			6.71	588.04	Low Flow	WG-37191-072209-034	N		X								
MW-14	May-08	05/28/08	593.15	584.56	DRY	DRY	NS	NS	-	-									
		01/22/09			DRY	DRY	NS	NS	-	-									
		07/20/09			DRY	DRY	NS	NS	-	-									
MW-14A	Dec-08	01/22/09	593.37	578.45	11.40	581.97	Low Flow	GW-37191-012209-JJW-018	N	-	X								
		07/20/09			11.61	581.76	Low Flow	WG-37191-072009-005	N	-	X								
MW-15	May-08	05/28/08	592.49	585.31	DRY	DRY	NS	NS	N	-									
		01/23/09			DRY	DRY	NS	NS	N	-									
		07/20/09			DRY	DRY	NS	NS	N	-									
MW-15A	Dec-08	01/23/09	593.37	578.42	10.52	582.85	Low Flow	GW-37191-012309-JJW-019	N	-	X								
		07/20/09			10.75	582.62	Low Flow	WG-37191-072009-012	N	-	X								
MW-16	May-08	05/28/08	591.74	581.25	DRY	DRY	NS	NS	N	-									
		07/20/09			DRY	DRY	NS	NS	N	-									
MW-17	May-08	05/28/08	592.58	581.35	7.61	584.97	Low Flow	WG-37191-052808-009	N	-	X				X	X			
		01/20/09			4.48	588.10	Low Flow	GW-37191-012009-JJW-010	N	-	X								
		07/20/09			10.34	582.24	Low Flow	WG-37191-072009-013	N	-	X								
MW-18	Dec-08	01/13/09	596.13	586.42	6.01	590.12	Low Flow	GW-37191-011309-JJW-003	N	-	X								
		01/13/09			-	-	Low Flow	GW-37191-011309-JJW-004	FD	GW-37191-011309-JJW-003	X								
		07/22/09			6.77	589.58	Low Flow	WG-37191-072209-042	N	-	X								
MW-18A	May-09	07/22/09	596.35	580.62	8.00	588.35	Low Flow	WG-37191-072209-041	N	-	X								
MW-19	Jun-09	07/20/09	593.68	586.32	3.29	590.39	Low Flow	WG-37191-072009-002	N	-	X								
MW-19A	Jun-09	07/20/09	593.82	596.1	10.00	583.82	Low Flow	WG-37191-072009-001	N	-	X								
MW-20	Jun-09	07/22/09	593.32	584.79	3.98	589.34	Low Flow	WG-37191-072209-032	N	-	X								
MW-20A	Jun-09	07/22/09	593.06	574.41	3.95	589.11	Low Flow	WG-37191-072209-031	N	-	X								
MW-21A	Jun-09	07/21/09	590.98	569.78	7.17	583.81	Low Flow	WG-37191-072109-016	N	-	X								
		07/21/09			-	-	Low Flow	WG-37191-072109-017	FD	WG-37191-072109-016	X								
MW-22	Jun-09	07/20/09	592.34	580.58	6.12	586.22	Low Flow	WG-37191-072009-004	N	-	X								
MW-22A	Jun-09	07/20/09	592.23	557.93	8.49	583.74	Low Flow	WG-37191-072009-003	N	-	X								
MW-23A	Jun-09	07/20/09	590.65	556.5	15.66	574.99	Low Flow	WG-37191-072009-007	N	-	X								
		07/20/09			-	-	Low Flow	WG-37191-072009-008	FD	WG-37191-072009-007	X								
MW-24A	Jun-09	07/20/09	580.08	582.63	7.90	572.18	Low Flow	WG-37191-072009-010	N	-	X								
MW-25	Jun-09	07/20/09	598.13	590.92	DRY	DRY	NS	NS	-	-	X								
MW-25A	Jun-09	07/20/09	598.13	583.97	7.94	590.19	Low Flow	WG-37191-072009-009	N	-	X								

Notes:

[1] MW-12 is a stick up well.

[2] Wells were purged dry on 8/20/07. Analytical samples were collected on 8/21/07.

CN Cyanide.
SVOCs Semi-volatile Organic Compounds.
TCL Target Compound List.
VOCs Volatile Organic Compounds.
N Normal Sample
FD Duplicate Sample
NS Not Sampled

TABLE 4.4

SUMMARY OF SOIL VAPOR INTRUSION SAMPLE COLLECTION AND ANALYSIS DETAILS
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

							Analysis/Parameters		
Sample ID	***Location***	***Sample Date***	***Sample Type***	***Parent Sample ID***	***Start Time***	***End Time***	*VOCs TO-15 (Full List)*	*Helium*	***Purpose***
SS-37191-111809-JDW-001	103 Harrison	11/18/2009	N		10:49	10:49	X	X	To identify potential soil vapor intrusion issues
IA-37191-111809-JDW-001	103 Harrison	11/18/2009	N		10:50	10:50	X		To identify potential soil vapor intrusion issues
SS-37191-111809-JDW-002	82 Harrison	11/18/2009	N		12:32	12:32	X	X	To identify potential soil vapor intrusion issues
SS-37191-111809-JDW-003	82 Harrison	11/18/2009	FD	SS-37191-111809-JDW-002	12:32	12:32	X	X	Duplicate Sample
IA-37191-111809-JDW-002	82 Harrison	11/18/2009	N		12:33	12:33	X		To identify potential soil vapor intrusion issues
OA-37191-111809-JDW-001	Up Wind	11/18/2009	N		13:06	13:06	X		To identify potential soil vapor intrusion issues
OA-37191-111809-JDW-002	Up Wind	11/18/2009	FD	OA-37191-111809-JDW-001	13:06	13:06	X		Duplicate Sample
SS-37191-111809-JDW-004	138 Harrison	11/18/2009	N		14:39	14:39	X	X	To identify potential soil vapor intrusion issues
IA-37191-111809-JDW-003	138 Harrison	11/18/2009	N		14:39	14:39	X		To identify potential soil vapor intrusion issues
SS-37191-111809-JDW-005	127 Harrison	11/18/2009	N		16:12	16:12	X	X	To identify potential soil vapor intrusion issues
IA-37191-111809-JDW-004	127 Harrison	11/18/2009	N		16:13	16:13	X		To identify potential soil vapor intrusion issues
IA-37191-111809-JDW-005	127 Harrison	11/18/2009	FD	IA-37191-111809-JDW-004	16:13	16:13	X		Duplicate Sample

Notes:
SS - Sub slab
IA - Indoor Air
OA - Outdoor Air

TABLE 5.1

SUMMARY OF HYDRAULIC CONDUCTIVITY VALUES
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Well ID	*Year Installed*	*Year Established*	*Falling Head (cm/sec)*	*Rising Head (cm/sec)*	*Geometric Mean (cm/sec)*
MW-4	2006	2009	2.81E-05	3.68E-05	2.97E-05
			2.54E-05	--	
MW-5	2006	2009	2.05E-05	2.05E-05	2.04E-05
			2.10E-05	1.96E-05	
MW-5A	2008	--	Not Tested - NAPL		
MW-6	2006	--	Not Tested - Insufficient Water		
MW-6A	2009	2009	8.29E-04	7.87E-04	7.27E-04
			6.95E-04	6.15E-04	
MW-7	2006	2009	5.50E-04	5.01E-04	5.58E-04
			5.67E-04	5.51E-04	
			6.29E-04	--	
MW-7A	2009	2009	1.29E-03	1.36E-03	1.33E-03
			1.33E-03	1.35E-03	
MW-8	2006	2009	7.36E-05	3.75E-05	4.73E-05
			3.28E-05	5.53E-05	
MW-9	2006	2009	4.72E-04	4.64E-04	4.61E-04
			4.56E-04	4.51E-04	
MW-9A	2008	2009	3.67E-02	4.09E-02	4.44E-02
			4.93E-02	4.25E-02	
			5.47E-02	4.44E-02	
MW-10	2008	2009	4.36E-04	3.37E-04	2.18E-04
			1.28E-04	1.19E-04	
MW-11	2008	2009	1.52E-05	1.43E-05	1.48E-05
MW-12	2007	--	Tested, however, had irregular response		
MW-13	2007	--	Not tested - Insufficient water, dry		
MW-13A	2008	2009	6.39E-04	6.62E-04	6.40E-04
			6.39E-04	6.20E-04	
MW-14	2008	--	Not tested - Insufficient water, dry		
MW-14A	2008	2009	2.18E-02	1.54E-02	1.78E-02
			1.81E-02	1.66E-02	
MW-15	2008	--	Not tested - Insufficient water, dry		
MW-15A	2008	2009	7.94E-02	3.53E-02	6.01E-02
			6.06E-02	7.67E-02	
MW-16	2008	--	Not tested - Insufficient water, dry		

TABLE 5.1

SUMMARY OF HYDRAULIC CONDUCTIVITY VALUES
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Well ID	*Year Installed*	*Year Established*	*Falling Head (cm/sec)*	*Rising Head (cm/sec)*	*Geometric Mean (cm/sec)*
MW-17	2008	--	Not tested - Insufficient water		
MW-18	2008	2009	1.47E-05 1.41E-05	1.74E-05 1.89E-05	1.61E-05
MW-18A	2009	2009	9.10E-04 8.54E-04	7.44E-04 8.31E-04	8.32E-04
MW-19	2009	2009	3.21E-05 --	-- --	3.21E-05
MW-19A	2009	2009	2.71E-02 2.55E-02	2.43E-02 2.65E-02	2.58E-02
MW-20	2009	2009	1.56E-05	--	1.56E-05
MW-20A	2009	2009	6.61E-04 5.92E-04	7.62E-04 5.65E-04	6.41E-04
MW-21A	2009	2009	5.88E-02 5.54E-02	7.77E-02 7.21E-02	6.53E-02
MW-22A	2009	2009	2.81E-03 3.04E-03	2.87E-03 3.00E-03	2.93E-03
MW-23A	2009	2009	2.89E-04 4.01E-04	1.31E-04 1.66E-04	2.24E-04
MW-24A	2009	2009	2.13E-03 1.85E-03	2.28E-03 2.15E-03	2.10E-03
MW-25	--	--	Not tested - Insufficient water, dry		
MW-25A	2009	2009	8.35E-02 1.50E-01	1.01E-01 1.01E-01	1.06E-01

TABLE 6.1

ANALYTICAL RESULTS SUMMARY - SURFACE SOIL
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

			On/Off-Site:	*Off-Site*	*Off-Site*	*Off-Site*	*Off-Site*	*Off-Site*	*Off-Site*	*Off-Site*	*Off-Site*	*Off-Site*
			Location ID:	*103 Harrison (SS-10)*	*103 Harrison (SS-10)*	*127 Harrison Back (SS-9)*	*127 Harrison Back (SS-9)*	*127 Harrison Front (SS-8)*	*127 Harrison Front (SS-8)*	*138 Harrison (SS-6)*	*138 Harrison (SS-6)*	*148 Milton (SS-7)*
			Sample Name:	*SS-37191-050708-CMB-005*	*SS-37191-050708-CMB-006*	*SS-37191-050808-CMB-007*	*SS-37191-050808-CMB-008*	*SS-37191-050808-CMB-009*	*SS-37191-050808-CMB-010*	*SS-37191-050708-CMB-003*	*SS-37191-050708-CMB-004*	*SS-37191-050708-CMB-001*
			Sample Date:	*5/7/2008*	*5/7/2008*	*5/8/2008*	*5/8/2008*	*5/8/2008*	*5/8/2008*	*5/7/2008*	*5/7/2008*	*5/7/2008*
			Depth:	*0 - 2 inches bgs*	*2 - 4 inches bgs*	*0 - 2 inches bgs*	*2 - 4 inches bgs*	*0 - 2 inches bgs*	*2 - 4 inches bgs*	*0 - 2 inches bgs*	*2 - 4 inches bgs*	*0 - 2 inches bgs*
		6 NYCRR Part 375-6.8(b): RUSCO - Protection of Public Health [2]										
Parameters	***Units*** [1]	***Residential***	***Industrial***									
Metals												
Aluminum	mg/kg	NC	NC	10600	10200	--	--	--	--	--	--	--
Antimony	mg/kg	NC	NC	--	--	--	--	--	--	--	--	--
Arsenic	mg/kg	16	16	14.2	13.6	--	--	--	--	--	--	--
Barium	mg/kg	350	10000	81.4	75.5	--	--	--	--	--	--	--
Beryllium	mg/kg	14	2700	0.63	0.62	--	--	--	--	--	--	--
Cadmium	mg/kg	2.5	60	1.2 J	1.1 J	--	--	--	--	--	--	--
Calcium	mg/kg	NC	NC	3550	3590	--	--	--	--	--	--	--
Chromium Total [3]	mg/kg	22	800	16.9 J	16.4 J	--	--	--	--	--	--	--
Cobalt	mg/kg	NC	NC	4.1 J	4.0 J	--	--	--	--	--	--	--
Copper	mg/kg	270	10000	28.8 J	27.7 J	--	--	--	--	--	--	--
Iron	mg/kg	NC	NC	20800	19600	--	--	--	--	--	--	--
Lead	mg/kg	400	3900	128	125	211 J	148 J	364 J	**632 J**	295	320	66.7 J
Magnesium	mg/kg	NC	NC	1940	1890	--	--	--	--	--	--	--
Manganese	mg/kg	2000	10000	219	211	--	--	--	--	--	--	--
Mercury	mg/kg	0.81	5.7	0.21	0.20	--	--	--	--	--	--	--
Nickel	mg/kg	140	10000	13.5 J	12.8 J	--	--	--	--	--	--	--
Potassium	mg/kg	NC	NC	946	933	--	--	--	--	--	--	--
Selenium	mg/kg	36	6800	1.2	1.5	--	--	--	--	--	--	--
Silver	mg/kg	36	6800	0.29 J	0.34 J	--	--	--	--	--	--	--
Sodium	mg/kg	NC	NC	74.9 J	61.5 J	--	--	--	--	--	--	--
Thallium	mg/kg	NC	NC	--	--	--	--	--	--	--	--	--
Vanadium	mg/kg	NC	NC	26.0	25.1	--	--	--	--	--	--	--
Zinc	mg/kg	2200	10000	152 J	146 J	--	--	--	--	--	--	--
Wet Chemistry												
Cyanide (total)	mg/kg	27	10000	--	--	--	--	--	--	--	--	--
Total Solids	%	NC	NC	--	--	--	--	--	--	--	--	--

Notes:

[1] - Reported results were converted from ug/kg (ppb) to mg/kg (ppm) for ease of comparison to criteria.

[2] - Sample results from locations identified as on-Site are compared to the Restricted Use - Industrial SCO. Sample results identified as off-Site are compared to the Restricted Use - Residential SCO.

[3] - The Restricted Use Soil Cleanup Objective (RUSCO) for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO. The most restrictive SCO for hexavalent Chromium was used for comparison to the total chromium results.

1.0 - Exceeds Criteria.

U - Not present at the associated value.

J - Estimated concentration.

NC - No criteria.

TABLE 6.1

ANALYTICAL RESULTS SUMMARY - SURFACE SOIL
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

	On/Off-Site:		*Off-Site*	*Off-Site*	*Off-Site*	*Off-Site*	*Off-Site*	*Off-Site*	*Off-Site*	*On-Site*
	Location ID:		*148 Milton (SS-7)*	*20 Hayes Place (SS-14)*	*20 Hayes Place (SS-14)*	*22 Lester (SS-15)*	*22 Lester (SS-15)*	*34 Hayes North (SS-12)*	*34 Hayes North (SS-12)*	*34 Hayes South (SS-13)*
	Sample Name:		*SS-37191-050708-CMB-002*	*SS-37191-050708-CMB-012*	*SS-37191-050708-CMB-013*	*SS-37191-050708-CMB-010*	*SS-37191-050708-CMB-011*	*SS-37191-050708-CMB-016*	*SS-37191-050708-CMB-017*	*SS-37191-050708-CMB-014*
	Sample Date:		*5/7/2008*	*5/7/2008*	*5/7/2008*	*5/7/2008*	*5/7/2008*	*5/7/2008*	*5/7/2008*	*5/7/2008*
	Depth:		*2 - 4 inches bgs*	*0 - 2 inches bgs*	*2 - 4 inches bgs*	*0 - 2 inches bgs*	*2 - 4 inches bgs*	*0 - 2 inches bgs*	*2 - 4 inches bgs*	*0 - 2 inches bgs*
Parameters	*Units* [1]	6 NYCRR Part 375-6.8(b): RUSCO - Protection of Public Health [2] *Residential*	*Industrial*							
Metals										
Aluminum	mg/kg	NC	NC	--	--	--	--	--	--	--
Antimony	mg/kg	NC	NC	--	--	--	--	--	--	--
Arsenic	mg/kg	16	16	--	--	--	--	--	--	--
Barium	mg/kg	350	10000	--	--	--	--	--	--	--
Beryllium	mg/kg	14	2700	--	--	--	--	--	--	--
Cadmium	mg/kg	2.5	60	--	--	--	--	--	--	--
Calcium	mg/kg	NC	NC	--	--	--	--	--	--	--
Chromium Total [3]	mg/kg	22	800	--	--	--	--	--	--	--
Cobalt	mg/kg	NC	NC	--	--	--	--	--	--	--
Copper	mg/kg	270	10000	--	--	--	--	--	--	--
Iron	mg/kg	NC	NC	--	--	--	--	--	--	--
Lead	mg/kg	400	3900	182	44.0	82.9 J	347	336	23.0	59.0 J	144
Magnesium	mg/kg	NC	NC	--	--	--	--	--	--	--
Manganese	mg/kg	2000	10000	--	--	--	--	--	--	--
Mercury	mg/kg	0.81	5.7	--	--	--	--	--	--	--
Nickel	mg/kg	140	10000	--	--	--	--	--	--	--
Potassium	mg/kg	NC	NC	--	--	--	--	--	--	--
Selenium	mg/kg	36	6800	--	--	--	--	--	--	--
Silver	mg/kg	36	6800	--	--	--	--	--	--	--
Sodium	mg/kg	NC	NC	--	--	--	--	--	--	--
Thallium	mg/kg	NC	NC	--	--	--	--	--	--	--
Vanadium	mg/kg	NC	NC	--	--	--	--	--	--	--
Zinc	mg/kg	2200	10000	--	--	--	--	--	--	--
Wet Chemistry										
Cyanide (total)	mg/kg	27	10000	--	--	--	--	--	--	--
Total Solids	%	NC	NC	--	--	--	--	--	--	--

Notes:

[1] - Reported results were converted from ug/kg (ppb) to mg/kg (ppm) for ease of comparison to criteria.

[2] - Sample results from locations identified as on-Site are compared to the Restricted Use - Industrial SCO. Sample results identified as off-Site are compared to the Restricted Use - Residential SCO.

[3] - The Restricted Use Soil Cleanup Objective (RUSCO) for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO. The most restrictive SCO for hexavalent Chromium was used for comparison to the total chromium results.

1.0 - Exceeds Criteria.

U - Not present at the associated value.

J - Estimated concentration.

NC - No criteria.

TABLE 6.1

ANALYTICAL RESULTS SUMMARY - SURFACE SOIL
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

	On/Off-Site:			*On-Site*	*Off-Site*	*Off-Site*	*Off-Site*	*Off-Site*	*Off-Site*	*Off-Site*	*Off-Site*
	Location ID:			*34 Hayes South (SS-13)*	*36 Lester (SS-16)*	*36 Lester (SS-16)*	*36 Lester (SS-16)*	*55 Lester North (SS-3)*	*55 Lester North (SS-3)*	*55 Lester South (SS-4)*	*55 Lester South (SS-4)*
	Sample Name:			*SS-37191-050708-CMB-015*	*SS-37191-050708-CMB-007*	*SS-37191-050708-CMB-008*	*SS-37191-050708-CMB-009*	*SS-37191-050808-CMB-001*	*SS-37191-050808-CMB-002*	*SS-37191-050808-CMB-003*	*SS-37191-050808-CMB-004*
	Sample Date:			*5/7/2008*	*5/7/2008*	*5/7/2008*	*5/7/2008*	*5/8/2008*	*5/8/2008*	*5/8/2008*	*5/8/2008*
	Depth:			*2 - 4 inches bgs*	*0 - 2 inches bgs*	*0 - 2 inches bgs*	*2 - 4 inches bgs*	*0 - 2 inches bgs*	*2 - 4 inches bgs*	*0 - 2 inches bgs*	*2 - 4 inches bgs*
						Duplicate					
		6 NYCRR Part 375-6.8(b): RUSCO - Protection of Public Health [2]									
Parameters	***Units*** [1]	***Residential***	***Industrial***								
Metals											
Aluminum	mg/kg	NC	NC	--	--	--	--	--	--	--	--
Antimony	mg/kg	NC	NC	--	--	--	--	--	--	--	--
Arsenic	mg/kg	16	16	--	--	--	--	--	--	--	--
Barium	mg/kg	350	10000	--	--	--	--	--	--	--	--
Beryllium	mg/kg	14	2700	--	--	--	--	--	--	--	--
Cadmium	mg/kg	2.5	60	--	--	--	--	--	--	--	--
Calcium	mg/kg	NC	NC	--	--	--	--	--	--	--	--
Chromium Total [3]	mg/kg	22	800	--	--	--	--	--	--	--	--
Cobalt	mg/kg	NC	NC	--	--	--	--	--	--	--	--
Copper	mg/kg	270	10000	--	--	--	--	--	--	--	--
Iron	mg/kg	NC	NC	--	--	--	--	--	--	--	--
Lead	mg/kg	400	3900	148	74.3	64.8	52.2	66.9 J	30.6 J	46.3 J	92.1 J
Magnesium	mg/kg	NC	NC	--	--	--	--	--	--	--	--
Manganese	mg/kg	2000	10000	--	--	--	--	--	--	--	--
Mercury	mg/kg	0.81	5.7	--	--	--	--	--	--	--	--
Nickel	mg/kg	140	10000	--	--	--	--	--	--	--	--
Potassium	mg/kg	NC	NC	--	--	--	--	--	--	--	--
Selenium	mg/kg	36	6800	--	--	--	--	--	--	--	--
Silver	mg/kg	36	6800	--	--	--	--	--	--	--	--
Sodium	mg/kg	NC	NC	--	--	--	--	--	--	--	--
Thallium	mg/kg	NC	NC	--	--	--	--	--	--	--	--
Vanadium	mg/kg	NC	NC	--	--	--	--	--	--	--	--
Zinc	mg/kg	2200	10000	--	--	--	--	--	--	--	--
Wet Chemistry											
Cyanide (total)	mg/kg	27	10000	--	--	--	--	--	--	--	--
Total Solids	%	NC	NC	--	--	--	--	--	--	--	--

Notes:

[1] - Reported results were converted from ug/kg (ppb) to mg/kg (ppm) for ease of comparison to criteria.

[2] - Sample results from locations identified as on-Site are compared to the Restricted Use - Industrial SCO. Sample results identified as off-Site are compared to the Restricted Use - Residential SCO.

[3] - The Restricted Use Soil Cleanup Objective (RUSCO) for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO. The most restrictive SCO for hexavalent Chromium was used for comparison to the total chromium results.

1.0 - Exceeds Criteria.

U - Not present at the associated value.

J - Estimated concentration.

NC - No criteria.

TABLE 6.1

ANALYTICAL RESULTS SUMMARY - SURFACE SOIL
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

	On/Off-Site:	*Off-Site*	*Off-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*
	Location ID:	*58 Lester (SS-5)*	*58 Lester (SS-5)*	*NE Harrison St WH (SS-2)*	*NE Harrison St WH (SS-2)*	*S Harrison St WH (SS-11)*	*S Harrison St WH (SS-11)*	*Soil Mound (SS-1)*	*Soil Mound (SS-1)*
	Sample Name:	*SS-37191-050808-CMB-005*	*SS-37191-050808-CMB-006*	*SS-37191-050708-CMB-020*	*SS-37191-050708-CMB-021*	*SS-37191-050708-CMB-022*	*SS-37191-050708-CMB-023*	*SS-37191-050708-CMB-018*	*SS-37191-050708-CMB-019*
	Sample Date:	*5/8/2008*	*5/8/2008*	*5/7/2008*	*5/7/2008*	*5/7/2008*	*5/7/2008*	*5/7/2008*	*5/7/2008*
	Depth:	*0 - 2 inches bgs*	*2 - 4 inches bgs*	*0 - 2 inches bgs*	*2 - 4 inches bgs*	*0 - 2 inches bgs*	*2 - 4 inches bgs*	*0 - 2 inches bgs*	*2 - 4 inches bgs*
Parameters	*Units* [1]	6 NYCRR Part 375-6.8(b): RUSCO - Protection of Public Health [2] *Residential*	*Industrial*							
Metals										
Aluminum	mg/kg	NC	NC	--	--	--	--	--	--	--
Antimony	mg/kg	NC	NC	--	--	--	--	--	--	--
Arsenic	mg/kg	16	16	--	--	--	--	--	--	--
Barium	mg/kg	350	10000	--	--	--	--	--	--	--
Beryllium	mg/kg	14	2700	--	--	--	--	--	--	--
Cadmium	mg/kg	2.5	60	--	--	--	--	--	--	--
Calcium	mg/kg	NC	NC	--	--	--	--	--	--	--
Chromium Total [3]	mg/kg	22	800	--	--	--	--	--	--	--
Cobalt	mg/kg	NC	NC	--	--	--	--	--	--	--
Copper	mg/kg	270	10000	--	--	--	--	--	--	--
Iron	mg/kg	NC	NC	--	--	--	--	--	--	--
Lead	mg/kg	400	3900	348 J	385 J	15.2	33.7	738 J	742 J	30.8	2090 J
Magnesium	mg/kg	NC	NC	--	--	--	--	--	--	--	--
Manganese	mg/kg	2000	10000	--	--	--	--	--	--	--	--
Mercury	mg/kg	0.81	5.7	--	--	--	--	--	--	--	--
Nickel	mg/kg	140	10000	--	--	--	--	--	--	--	--
Potassium	mg/kg	NC	NC	--	--	--	--	--	--	--	--
Selenium	mg/kg	36	6800	--	--	--	--	--	--	--	--
Silver	mg/kg	36	6800	--	--	--	--	--	--	--	--
Sodium	mg/kg	NC	NC	--	--	--	--	--	--	--	--
Thallium	mg/kg	NC	NC	--	--	--	--	--	--	--	--
Vanadium	mg/kg	NC	NC	--	--	--	--	--	--	--	--
Zinc	mg/kg	2200	10000	--	--	--	--	--	--	--	--
Wet Chemistry										
Cyanide (total)	mg/kg	27	10000	--	--	--	--	--	--	--	--
Total Solids	%	NC	NC	--	--	--	--	--	--	--	--

Notes:

[1] - Reported results were converted from ug/kg (ppb) to mg/kg (ppm) for ease of comparison to criteria.

[2] - Sample results from locations identified as on-Site are compared to the Restricted Use - Industrial SCO. Sample results identified as off-Site are compared to the Restricted Use - Residential SCO.

[3] - The Restricted Use Soil Cleanup Objective (RUSCO) for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO. The most restrictive SCO for hexavalent Chromium was used for comparison to the total chromium results.

1.0 - Exceeds Criteria.

U - Not present at the associated value.

J - Estimated concentration.

NC - No criteria.

TABLE 6.1

ANALYTICAL RESULTS SUMMARY - SURFACE SOIL
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

	On/Off-Site:			*Off-Site*	*Off-Site*	*Off-Site*	*Off-Site*	*Off-Site*	*Off-Site*	*Off-Site*	*Off-Site*
	Location ID:			*82 Harrison Street (SS-17)*	*82 Harrison Street (SS-17)*	*82 Harrison Street (SS-18)*	*82 Harrison Street (SS-18)*	*118 Harrison Street (SS-19)*	*118 Harrison Street (SS-19)*	*118 Harrison Street (SS-20)*	*118 Harrison Street (SS-20)*
	Sample Name:			*SS-37191-081308-CB-001*	*SS-37191-081308-CB-002*	*SS-37191-081308-CB-003*	*SS-37191-081308-CB-004*	*SS-37191-081308-CB-005*	*SS-37191-081308-CB-006*	*SS-37191-081308-CB-007*	*SS-37191-081308-CB-008*
	Sample Date:			*8/13/2008*	*8/13/2008*	*8/13/2008*	*8/13/2008*	*8/13/2008*	*8/13/2008*	*8/13/2008*	*8/13/2008*
	Depth:			*0 - 2 inches bgs*	*2 - 4 inches bgs*	*0 - 2 inches bgs*	*2 - 4 inches bgs*	*0 - 2 inches bgs*	*2 - 4 inches bgs*	*0 - 2 inches bgs*	*2 - 4 inches bgs*
Parameters	*Units* [1]	6 NYCRR Part 375-6.8(b): RUSCO - Protection of Public Health [2] *Residential*	*Industrial*								
Metals											
Aluminum	mg/kg	NC	NC	10600	10200	8810	9080	--	--	6280	6160
Antimony	mg/kg	NC	NC	0.68 J	1.0 J	0.63 J	0.75 J	--	--	0.81 J	0.88 J
Arsenic	mg/kg	16	16	11.8	11.4	11.4	11.7	--	--	11.0	10.4
Barium	mg/kg	350	10000	115	112	85.0	82.8	--	--	89.3	88.3
Beryllium	mg/kg	14	2700	0.67	0.63	0.65	0.66	--	--	0.54	0.51 J
Cadmium	mg/kg	2.5	60	1.1	1.1	0.84	0.85	--	--	1.3	1.3
Calcium	mg/kg	NC	NC	5130	4510	4930	4570	--	--	36200	51800
Chromium Total [3]	mg/kg	22	800	22.5	21.7	20.1	18.9	--	--	20.1	19.8
Cobalt	mg/kg	NC	NC	8.4	8.0	6.9	7.0	--	--	5.2 J	5.1 J
Copper	mg/kg	270	10000	45.5	44.6	35.2	34.6	--	--	37.6	35.7
Iron	mg/kg	NC	NC	26700	25800	23600	23900	--	--	22800	21700
Lead	mg/kg	400	3900	251	244	122	122	356	335	163	159
Magnesium	mg/kg	NC	NC	3320	3130	3040	3030	--	--	6110	6630
Manganese	mg/kg	2000	10000	433	393	394	395	--	--	385	391
Mercury	mg/kg	0.81	5.7	0.22	0.26	0.12	0.15	--	--	0.16	0.17
Nickel	mg/kg	140	10000	24.8	23.9	21.5	21.5	--	--	18.2	17.7
Potassium	mg/kg	NC	NC	1420	1230	975	908	--	--	1020	919
Selenium	mg/kg	36	6800	1.2	1.0	0.94	1.1	--	--	0.70	0.72
Silver	mg/kg	36	6800	0.76 U	0.67 U	0.66 U	0.64 U	--	--	0.67 U	0.66 U
Sodium	mg/kg	NC	NC	757 U	673 U	41.9 J	203 J	--	--	668 U	660 U
Thallium	mg/kg	NC	NC	1.5 U	1.3 U	1.3 U	1.3 U	--	--	1.3 U	1.3 U
Vanadium	mg/kg	NC	NC	23.5	23.0	20.9	21.1	--	--	19.9	19.9
Zinc	mg/kg	2200	10000	313	306	222	216	--	--	277	263
Wet Chemistry											
Cyanide (total)	mg/kg	27	10000	0.76 U	0.67 U	0.66 U	0.64 U	--	--	0.67 U	0.66 U
Total Solids	%	NC	NC	66.1	74.3	75.2	77.9	63.7	66.4	74.9	75.8

Notes:

[1] - Reported results were converted from ug/kg (ppb) to mg/kg (ppm) for ease of comparison to criteria.

[2] - Sample results from locations identified as on-Site are compared to the Restricted Use - Industrial SCO. Sample results identified as off-Site are compared to the Restricted Use - Residential SCO.

[3] - The Restricted Use Soil Cleanup Objective (RUSCO) for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO. The most restrictive SCO for hexavalent Chromium was used for comparison to the total chromium results.

1.0 - Exceeds Criteria.

U - Not present at the associated value.

J - Estimated concentration.

NC - No criteria.

TABLE 6.1

ANALYTICAL RESULTS SUMMARY - SURFACE SOIL
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

	On/Off-Site:			*Off-Site*	*Off-Site*	*Off-Site*	*Off-Site*	*Off-Site*	*Off-Site*	*Off-Site*	*Off-Site*
	Location ID:			*118 Harrison Street (SS-21)*	*118 Harrison Street (SS-21)*	*118 Harrison Street (SS-22)*	*118 Harrison Street (SS-22)*	*118 Harrison Street (SS-23)*	*118 Harrison Street (SS-23)*	*118 Harrison Street (SS-24)*	*118 Harrison Street (SS-24)*
	Sample Name:			*SS-37191-081308-CB-009*	*SS-37191-081308-CB-010*	*SS-37191-081308-CB-011*	*SS-37191-081308-CB-012*	*SS-37191-081308-CB-013*	*SS-37191-081308-CB-014*	*SS-37191-081308-CB-015*	*SS-37191-081308-CB-016*
	Sample Date:			*8/13/2008*	*8/13/2008*	*8/13/2008*	*8/13/2008*	*8/13/2008*	*8/13/2008*	*8/13/2008*	*8/13/2008*
	Depth:			*0 - 2 inches bgs*	*2 - 4 inches bgs*	*0 - 2 inches bgs*	*2 - 4 inches bgs*	*0 - 2 inches bgs*	*2 - 4 inches bgs*	*0 - 2 inches bgs*	*2 - 4 inches bgs*
Parameters	*Units* [1]	6 NYCRR Part 375-6.8(b): RUSCO - Protection of Public Health [2] *Residential*	*Industrial*								
Metals											
Aluminum	mg/kg	NC	NC	--	--	--	--	--	--	6390	6240
Antimony	mg/kg	NC	NC	--	--	--	--	--	--	0.75 J	0.77 J
Arsenic	mg/kg	16	16	--	--	--	--	--	--	7.6	7.7
Barium	mg/kg	350	10000	--	--	--	--	--	--	58.6	54.5
Beryllium	mg/kg	14	2700	--	--	--	--	--	--	0.45 J	0.44 J
Cadmium	mg/kg	2.5	60	--	--	--	--	--	--	0.70	0.81
Calcium	mg/kg	NC	NC	--	--	--	--	--	--	28400	43000
Chromium Total [3]	mg/kg	22	800	--	--	--	--	--	--	12.5	12.1
Cobalt	mg/kg	NC	NC	--	--	--	--	--	--	5.9 J	5.9 J
Copper	mg/kg	270	10000	--	--	--	--	--	--	29.9	29.5
Iron	mg/kg	NC	NC	--	--	--	--	--	--	17800	17600
Lead	mg/kg	400	3900	17.5	16.6	160	158	163	151	116	123
Magnesium	mg/kg	NC	NC	--	--	--	--	--	--	10600	10800
Manganese	mg/kg	2000	10000	--	--	--	--	--	--	356	348
Mercury	mg/kg	0.81	5.7	--	--	--	--	--	--	0.085	0.083
Nickel	mg/kg	140	10000	--	--	--	--	--	--	17.0	16.8
Potassium	mg/kg	NC	NC	--	--	--	--	--	--	982	832
Selenium	mg/kg	36	6800	--	--	--	--	--	--	0.65 U	0.62 U
Silver	mg/kg	36	6800	--	--	--	--	--	--	0.65 U	0.62 U
Sodium	mg/kg	NC	NC	--	--	--	--	--	--	646 U	37.3 J
Thallium	mg/kg	NC	NC	--	--	--	--	--	--	1.3 U	1.2 U
Vanadium	mg/kg	NC	NC	--	--	--	--	--	--	16.5	16.1
Zinc	mg/kg	2200	10000	--	--	--	--	--	--	222	217
Wet Chemistry											
Cyanide (total)	mg/kg	27	10000	--	--	--	--	--	--	0.65 U	0.62 U
Total Solids	%	NC	NC	76.5	81.7	70.3	73.6	78.1	82.9	77.4	81.3

Notes:

[1] - Reported results were converted from ug/kg (ppb) to mg/kg (ppm) for ease of comparison to criteria.

[2] - Sample results from locations identified as on-Site are compared to the Restricted Use - Industrial SCO. Sample results identified as off-Site are compared to the Restricted Use - Residential SCO.

[3] - The Restricted Use Soil Cleanup Objective (RUSCO) for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO. The most restrictive SCO for hexavalent Chromium was used for comparison to the total chromium results.

1.0 - Exceeds Criteria.

U - Not present at the associated value.

J - Estimated concentration.

NC - No criteria.

TABLE 6.1

ANALYTICAL RESULTS SUMMARY - SURFACE SOIL
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

			On/Off-Site:	*Off-Site*	*Off-Site*	*Off-Site*
			Location ID:	*66 Lester Street (SS-25)*	*66 Lester Street (SS-25)*	*66 Lester Street (SS-25)*
			Sample Name:	*SS-37191-081308-CB-017*	*SS-37191-081308-CB-018*	*SS-37191-081308-CB-019*
			Sample Date:	*8/13/2008*	*8/13/2008*	*8/13/2008*
			Depth:	*0 - 2 inches bgs*	*2 - 4 inches bgs*	*2 - 4 inches bgs*
						Duplicate
Parameters	*Units* [1]	6 NYCRR Part 375-6.8(b): RUSCO - Protection of Public Health [2] *Residential*	*Industrial*			
Metals						
Aluminum	mg/kg	NC	NC	8570	9590	7760
Antimony	mg/kg	NC	NC	0.88 J	1.4 J	0.58 J
Arsenic	mg/kg	16	16	10.5	12.4	9.8
Barium	mg/kg	350	10000	111	124	99.5
Beryllium	mg/kg	14	2700	0.58 J	0.66 J	0.52
Cadmium	mg/kg	2.5	60	1.1	1.2	0.95
Calcium	mg/kg	NC	NC	10600	14000	11100
Chromium Total [3]	mg/kg	22	800	19.5	22.2	17.8
Cobalt	mg/kg	NC	NC	6.6 J	7.5 J	6.0
Copper	mg/kg	270	10000	54.1	58.5	45.4
Iron	mg/kg	NC	NC	24600	26800	21100
Lead	mg/kg	400	3900	283	309	242
Magnesium	mg/kg	NC	NC	4710	6050	4470
Manganese	mg/kg	2000	10000	354	473	349
Mercury	mg/kg	0.81	5.7	0.22	0.28	0.22
Nickel	mg/kg	140	10000	20.1	22.2	17.8
Potassium	mg/kg	NC	NC	1510	1670	1210
Selenium	mg/kg	36	6800	0.83	1.1	0.67
Silver	mg/kg	36	6800	0.75 U	0.89 U	0.58 U
Sodium	mg/kg	NC	NC	29.2 J	40.8 J	18.1 J
Thallium	mg/kg	NC	NC	1.5 U	1.8 U	1.2 U
Vanadium	mg/kg	NC	NC	21.9	24.4	19.1
Zinc	mg/kg	2200	10000	276	305	224
Wet Chemistry						
Cyanide (total)	mg/kg	27	10000	0.75 U	0.89 U	0.58 U
Total Solids	%	NC	NC	66.4	56.5	86.0

Notes:

[1] - Reported results were converted from ug/kg (ppb) to mg/kg (ppm) for ease of comparison to criteria.

[2] - Sample results from locations identified as on-Site are compared to the Restricted Use - Industrial SCO. Sample results identified as off-Site are compared to the Restricted Use - Residential SCO.

[3] - The Restricted Use Soil Cleanup Objective (RUSCO) for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO. The most restrictive SCO for hexavalent Chromium was used for comparison to the total chromium results.

1.0 - Exceeds Criteria.

U - Not present at the associated value.

J - Estimated concentration.

NC - No criteria.

TABLE 6.2

HERBICIDE, PCB, AND PESTICIDE ANALYTICAL RESULTS SUMMARY- SUBSURFACE SOIL
BCP REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*MW-14*	*MW-17*	*SB-1-07*	*SB-12-07*	*SB-18-07*	*SB-18-08*	*SB-3-07*	*SB-5-07*	*SB-8-07*
Sample Name:				*SB-37191-050808-JP-011*	*SB-37191-050908-JP-002*	*SO-37191-072507-RN-SB-1*	*SO-37191-072607-RN-SB-12*	*SO-37191-073007-CB-SB18*	*SB-37191-050908-JP-001*	*SO-37191-072707-RN-SB-3*	*SO-37191-072507-RN-SB-05*	*SO-37191-072507-RN-SB-8*
Sample Date:				*5/8/2008*	*5/9/2008*	*7/25/2007*	*7/26/2007*	*7/30/2007*	*5/9/2008*	*7/27/2007*	*7/25/2007*	*7/25/2007*
Depth:				*0-2 ft BGS*	*0-2 ft BGS*	*2-4 ft BGS*	*3.5-6 ft BGS*	*4-7.2 ft BGS*	*0-2 ft BGS*	*10-13 ft BGS*	*4-8 ft BGS*	*3.5-8 ft BGS*
On/Off - Site				*Off-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*	*Off-Site*	*On-Site*	*On-Site*	*On-Site*
		6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health [2]										
Parameters	*Units* [1]	*Residential*	*Industrial*									
Herbicides												
2,4,5-T	mg/kg	NC	NC	0.024 U	0.023 U	0.028 U	0.025 U	0.021 U	0.024 U	0.024 U	0.024 U	0.025 U
2,4,5-TP (Silvex)	mg/kg	58	1000	0.024 U	0.023 U	0.028 U	0.025 U	0.021 U	0.024 U	0.024 U	0.024 U	0.025 U
2,4-DB	mg/kg	NC	NC	0.098 U	0.092 U	0.11 U	0.099 U	0.083 U	0.097 U	0.095 U	0.097 U	0.098 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/kg	NC	NC	0.098 U	0.092 U	0.11 U	0.099 U	0.083 U	0.097 U	0.095 U	0.097 U	0.098 U
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	mg/kg	NC	NC	9.8 U	9.2 U	11 U	9.9 U	8.3 U	9.7 U	9.5 U	9.7 U	9.8 U
Dalapon	mg/kg	NC	NC	0.11 U	0.1 U	0.12 U	0.11 U	0.093 U	0.11 U	0.11 U	0.11 U	0.11 U
Dicamba	mg/kg	NC	NC	0.049 U	0.046 U	0.055 U	0.05 U	0.042 U	0.049 U	0.048 U	0.048 U	0.049 U
Dichlorprop	mg/kg	NC	NC	0.098 U	0.092 U	0.11 U	0.099 U	0.083 U	0.097 U	0.095 U	0.097 U	0.098 U
Dinoseb	mg/kg	NC	NC	0.015 U	0.014 U	0.017 U	0.015 U	0.012 U	0.015 U	0.014 U	0.015 U	0.015 U
Mecoprop (MCPP)	mg/kg	NC	NC	9.8 U	9.2 U	11 U	9.9 U	8.3 U	9.7 U	9.5 U	9.7 U	9.8 U
PCBs												
Aroclor-1016 (PCB-1016)	mg/kg	1 [3]	25 [3]	0.02 U	0.019 U	0.023 U	0.021 U	0.017 U	0.02 U	0.02 U	0.02 U	0.02 U
Aroclor-1221 (PCB-1221)	mg/kg	1 [3]	25 [3]	0.02 U	0.019 U	0.023 U	0.021 U	0.017 U	0.02 U	0.02 U	0.02 U	0.02 U
Aroclor-1232 (PCB-1232)	mg/kg	1 [3]	25 [3]	0.02 U	0.019 U	0.023 U	0.021 U	0.017 U	0.02 U	0.02 U	0.02 U	0.02 U
Aroclor-1242 (PCB-1242)	mg/kg	1 [3]	25 [3]	0.02 U	0.019 U	0.023 U	0.021 U	0.017 U	0.02 U	0.02 U	0.02 U	0.02 U
Aroclor-1248 (PCB-1248)	mg/kg	1 [3]	25 [3]	0.02 U	0.019 U	0.023 U	0.021 U	0.017 U	0.02 U	0.02 U	0.02 U	0.02 U
Aroclor-1254 (PCB-1254)	mg/kg	1 [3]	25 [3]	0.02 U	0.019 U	0.03	0.021 U	0.017 U	0.02 U	0.02 U	0.02 U	0.02 U
Aroclor-1260 (PCB-1260)	mg/kg	1 [3]	25 [3]	0.011 J	0.014 J	0.018 J	0.021 U	0.017 U	0.02 U	0.02 U	0.02 U	0.02 U
Pesticides												
4,4'-DDD	mg/kg	2.6	180	0.0021 U	0.0015 J	0.00085 J	0.0021 U	0.0018 U	0.0021 U	0.00055 J	0.0021 U	0.0021 U
4,4'-DDE	mg/kg	1.8	120	0.0046	0.002 U	0.002 J	0.0021 U	0.0018 U	0.0039	0.00052 J	0.0021 U	0.0021 U
4,4'-DDT	mg/kg	1.7	94	0.0035	0.002 U	0.0017 J	0.0021 U	0.0018 U	0.0068	0.002 U	0.0021 U	0.0021 U
Aldrin	mg/kg	0.019	1.4	0.0021 U	0.002 U	0.0021 J	0.0021 U	0.0018 U	0.0021 U	0.002 U	0.00028 J	0.0021 U
alpha-BHC	mg/kg	0.097	6.8	0.0021 U	0.002 U	0.0023 U	0.0021 U	0.0018 U	0.0021 U	0.002 U	0.0021 U	0.0021 U
alpha-Chlordane	mg/kg	0.91	47	0.0021 U	0.002 U	0.0023 U	0.0021 U	0.0018 U	0.0021 U	0.002 U	0.0021 U	0.0021 U
beta-BHC	mg/kg	0.072	14	0.0021 U	0.002 U	0.0023 U	0.0021 U	0.0018 U	0.0021 U	0.002 U	0.0021 U	0.0021 U
delta-BHC	mg/kg	100	1000	0.0021 U	0.002 U	0.00054 J	0.0021 U	0.0018 U	0.0021 U	0.00033 J	0.0021 U	0.0021 U
Dieldrin	mg/kg	0.039	2.8	0.0021 U	0.002 U	0.0023 U	0.0021 U	0.0018 U	0.0021 U	0.002 U	0.0021 U	0.0021 U
Endosulfan I	mg/kg	4.8	920	0.0021 U	0.002 U	0.0023 U	0.0021 U	0.0018 U	0.0021 U	0.002 U	0.0021 U	0.0021 U
Endosulfan II	mg/kg	4.8	920	0.0021 U	0.002 U	0.0023 U	0.0021 U	0.0018 U	0.0021 U	0.002 U	0.0021 U	0.0021 U
Endosulfan sulfate	mg/kg	4.8	920	0.0021 U	0.002 U	0.00077 J	0.0021 U	0.0018 U	0.0021 U	0.002 U	0.0021 U	0.0021 U
Endrin	mg/kg	2.2	410	0.0021 U	0.002 U	0.0023 U	0.0021 U	0.0018 U	0.0021 U	0.002 U	0.0021 U	0.0021 U
Endrin aldehyde	mg/kg	NC	NC	0.0021 U	0.002 U	0.0023 U	0.0021 U	0.0018 U	0.0021 U	0.002 U	0.0021 U	0.0021 U
Endrin ketone	mg/kg	NC	NC	0.00091 J	0.002 U	0.0023 U	0.0021 U	0.0018 U	0.0021 U	0.002 U	0.0021 U	0.0021 U
gamma-BHC (Lindane)	mg/kg	0.28	23	0.0021 U	0.017 J	0.0075	0.0021 U	0.0018 U	0.0021 U	0.00098 J	0.0021 U	0.0021 U
gamma-Chlordane	mg/kg	NC	NC	0.0021 U	0.002 U	0.0023 U	0.0021 U	0.0018 U	0.0021 U	0.002 U	0.0021 U	0.0021 U
Heptachlor	mg/kg	0.42	29	0.0021 U	0.0016 J	0.0023 U	0.0021 U	0.0018 U	0.0021 U	0.002 U	0.0021 U	0.0021 U
Heptachlor epoxide	mg/kg	NC	NC	0.0021 U	0.002 U	0.0023 U	0.0021 U	0.0018 U	0.0021 U	0.002 U	0.0021 U	0.0021 U
Methoxychlor	mg/kg	NC	NC	0.004 U	0.0038 U	0.0035 J	0.0041 U	0.0034 U	0.004 U	0.0039 U	0.004 U	0.0041 U
Toxaphene	mg/kg	NC	NC	0.081 U	0.077 U	0.093 U	0.083 U	0.07 U	0.082 U	0.079 U	0.081 U	0.082 U

Notes:

[1] **-** Reported results were converted from ug/kg (ppb) to mg/kg (ppm) for ease of comparison to criteria.

[2] - Sample results from locations identified as on-Site are compared to the Restricted Use - Industrial SCO.
Sample results identified as off-Site are compared to the Restricted Use - Residential SCO.

[3] **-** The soil cleanup objective for total PCBs

1.0 - Exceeds Criteria

U - Not present at the associated value.

J - Estimated concentration.

NC - No criteria.

TABLE 6.3

METALS ANALYTICAL RESULTS SUMMARY- SUBSURFACE
SOIL
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*MW-14*	*MW-17*	*SB-10-07*	*SB-1-07*	*SB-11-07*	*SB-12-07*	*SB-13-07*	*SB-14-07*
Sample Name:				*SB-37191-050808-JP-011*	*SB-37191-050908-JP-002*	*SO-37191-072507-RN-SB-10*	*SO-37191-072507-RN-SB-1*	*SO-37191-072607-RN-SB-11*	*SO-37191-072607-RN-SB-12*	*SO-37191-072607-RN-SB-13*	*SO-37191-072607-RN-SB-14*
Sample Date:				*5/8/2008*	*5/9/2008*	*7/25/2007*	*7/25/2007*	*7/26/2007*	*7/26/2007*	*7/26/2007*	*7/26/2007*
Depth:				*0-2 ft BGS*	*0-2 ft BGS*	*3-8 ft BGS*	*2-4 ft BGS*	*2-6 ft BGS*	*3.5-6 ft BGS*	*6-8 ft BGS*	*4-8 ft BGS*
On/Off - Site				*Off-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*
Parameters	*Units* [1]	*6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health* [2] *Residential*	*Industrial*								
Metals											
Aluminum	mg/kg	NC	NC	8680	18700	--	9270	--	11300	--	--
Antimony	mg/kg	NC	NC	1.2 U	1.2 U	--	1.4 U	--	1.2 U	--	--
Arsenic	mg/kg	16	16	5.1	5.2	--	11.4	--	4.2	--	--
Barium	mg/kg	350	10000	47.0	200	--	103	--	107	--	--
Beryllium	mg/kg	14	2700	0.49 U	2.9	--	2.0	--	0.79	--	--
Cadmium	mg/kg	2.5	60	0.54 J	1.4 J	--	0.66 J	--	0.36 J	--	--
Calcium	mg/kg	NC	NC	2200	110000	--	103000	--	89800	--	--
Chromium, Total[3]	mg/kg	22	800	11.9	63.9	--	13.0	--	16.5	--	--
Cobalt	mg/kg	NC	NC	3.8 J	2.6 J	--	6.1 J	--	7.8	--	--
Copper	mg/kg	270	10000	11.9	35.3	--	60.8	--	18.5	--	--
Iron	mg/kg	NC	NC	15300	27300	--	32300	--	17500	--	--
Lead	mg/kg	400	3900	48.4 J	87.3 J	196	78.3	2160	8.2	7.3	4.4
Magnesium	mg/kg	NC	NC	1950	15300	--	13700	--	15500	--	--
Manganese	mg/kg	2000	10000	135 J	3240 J	--	712	--	343	--	--
Mercury	mg/kg	0.81	5.7	0.16	0.035 J	--	0.45	--	0.041 U	--	--
Nickel	mg/kg	140	10000	11.4	12.8	--	16.0	--	19.8	--	--
Potassium	mg/kg	NC	NC	892	1350	--	1170	--	2320	--	--
Selenium	mg/kg	36	6800	0.49 J	1.2	--	0.69 U	--	0.62 U	--	--
Silver	mg/kg	36	6800	0.61 U	0.88	--	0.69 U	--	0.62 U	--	--
Sodium	mg/kg	NC	NC	41.7 J	527 J	--	572 J	--	239 J	--	--
Thallium	mg/kg	NC	NC	1.2 U	2.3 U	--	1.4 U	--	1.2 U	--	--
Vanadium	mg/kg	NC	NC	19.3	24.3	--	11.6	--	22.1	--	--
Zinc	mg/kg	2200	10000	71.7	169	--	107	--	46.2	--	--
Wet Chemistry											
Cyanide (total)	mg/kg	27	10000	0.61 U	3.3	--	0.29 J	--	0.62 U	--	--
Total Solids	%	NC	NC	81.8	86.9	85.1	72.4	75.1	80.5	81.6	87.3

Notes:

[1] - Reported results were converted from ug/kg (ppb) to mg/kg (ppm) for ease of comparison to criteria.

[2] - Sample results from locations identified as on-Site are compared to the Restricted Use - Industrial SCO. Sample results identified as off-Site are compared to the Restricted Use - Residential SCO.

[3] - The Restricted Use Soil Cleanup Objective (RUSCO) for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO. The most restrictive SCO for hexavalent Chromium was used for comparison to the total chromium results.

1.0 - Exceeds Criteria

U - Not present at the associated value.

J - Estimated concentration.

NC - No criteria.

TABLE 6.3

METALS ANALYTICAL RESULTS SUMMARY- SUBSURFACE
SOIL
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*SB-15-07*	*SB-16-07*	*SB-17-07*	*SB-17-07*	*SB-18-07*	*SB-18-08*	*SB-2-07*	*SB-2-07*
Sample Name:				*SO-37191-072607-RN-SB-15*	*SO-37191-072607-RN-SB-16*	*SO-37191-072707-RN-SB-17*	*SO-37191-072707-RN-SB-27*	*SO-37191-073007-CB-SB18*	*SB-37191-050908-JP-001*	*SO-37191-072707-RN-SB-2*	*SO-37191-072707-RN-SB-20*
Sample Date:				*7/26/2007*	*7/26/2007*	*7/27/2007*	*7/27/2007*	*7/30/2007*	*5/9/2008*	*7/27/2007*	*7/27/2007*
Depth:				*4-8 ft BGS*	*4-8 ft BGS*	*6-10 ft BGS*	*6-10 ft BGS*	*4-7.2 ft BGS*	*0-2 ft BGS*	*6.5-8 ft BGS*	*6.5-8 ft BGS*
On/Off - Site				*On-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*	*Off-Site*	*On-Site*	*On-Site*
							Dupilcate				*Duplicate*
Parameters	*Units* [1]	*6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health* [2] *Residential*	*Industrial*								
Metals											
Aluminum	mg/kg	NC	NC	--	--	--	--	6100	8000	--	--
Antimony	mg/kg	NC	NC	--	--	--	--	1.0 U	1.2 U	--	--
Arsenic	mg/kg	16	16	--	--	--	--	3.5	5.9	--	--
Barium	mg/kg	350	10000	--	--	--	--	56.1	161	--	--
Beryllium	mg/kg	14	2700	--	--	--	--	0.44 U	1.1	--	--
Cadmium	mg/kg	2.5	60	--	--	--	--	0.24 J	1.1 J	--	--
Calcium	mg/kg	NC	NC	--	--	--	--	92600	45000	--	--
Chromium, Total[3]	mg/kg	22	800	--	--	--	--	9.8	23.5	--	--
Cobalt	mg/kg	NC	NC	--	--	--	--	4.5 J	2.3 J	--	--
Copper	mg/kg	270	10000	--	--	--	--	11.6	18.8	--	--
Iron	mg/kg	NC	NC	--	--	--	--	12300	14200	--	--
Lead	mg/kg	400	3900	10.5	94.8	155 J	13.4 J	6.2	104 J	229	567
Magnesium	mg/kg	NC	NC	--	--	--	--	19100	5200	--	--
Manganese	mg/kg	2000	10000	--	--	--	--	405	795 J	--	--
Mercury	mg/kg	0.81	5.7	--	--	--	--	0.011 J	0.18	--	--
Nickel	mg/kg	140	10000	--	--	--	--	10.9	8.4	--	--
Potassium	mg/kg	NC	NC	--	--	--	--	1380	679	--	--
Selenium	mg/kg	36	6800	--	--	--	--	0.52 U	0.51 J	--	--
Silver	mg/kg	36	6800	--	--	--	--	0.061 J	0.26 J	--	--
Sodium	mg/kg	NC	NC	--	--	--	--	192 J	296 J	--	--
Thallium	mg/kg	NC	NC	--	--	--	--	1.0 U	1.2 U	--	--
Vanadium	mg/kg	NC	NC	--	--	--	--	14.1	18.4	--	--
Zinc	mg/kg	2200	10000	--	--	--	--	38.2	166	--	--
Wet Chemistry											
Cyanide (total)	mg/kg	27	10000	--	--	--	--	0.18 J	0.95	--	--
Total Solids	%	NC	NC	82.1	74.6	69.4	87.6	96.3	82.1	80.7	75.2

Notes:

[1] - Reported results were converted from ug/kg (ppb) to mg/kg (ppm) for ease of comparison to criteria.

[2] - Sample results from locations identified as on-Site are compared to the Restricted Use - Industrial SCO. Sample results identified as off-Site are compared to the Restricted Use - Residential SCO.

[3] - The Restricted Use Soil Cleanup Objective (RUSCO) for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO. The most restrictive SCO for hexavalent Chromium was used for comparison to the total chromium results.

1.0 - Exceeds Criteria

U - Not present at the associated value.

J - Estimated concentration.

NC - No criteria.

TABLE 6.3

METALS ANALYTICAL RESULTS SUMMARY- SUBSURFACE
SOIL
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*SB-3-07*	*SB-4-07*	*SB-5-07*	*SB-6-07*	*SB-6-07*	*SB-7-07*	*SB-8-07*	*SB-9-07*
Sample Name:				*SO-37191-072707-RN-SB-3*	*SO-37191-072707-RN-SB-4*	*SO-37191-072507-RN-SB-05*	*SO-37191-073007-CB-SB6*	*SO-37191-073007-CB-SB19*	*SO-37191-072507-RN-SB-7*	*SO-37191-072507-RN-SB-8*	*SO-37191-072507-RN-SB-9*
Sample Date:				*7/27/2007*	*7/27/2007*	*7/25/2007*	*7/30/2007*	*7/30/2007*	*7/25/2007*	*7/25/2007*	*7/25/2007*
Depth:				*10-13 ft BGS*	*2-4 ft BGS*	*4-8 ft BGS*	*6-10.4 ft BGS*	*6-10.4 ft BGS*	*3-6 ft BGS*	*3.5-8 ft BGS*	*3-6 ft BGS*
On/Off - Site				*On-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*
							Duplicate				
		6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health[2]									
Parameters	*Units*[1]	*Residential*	*Industrial*								
Metals											
Aluminum	mg/kg	NC	NC	6270	--	15800	--	--	--	9450	--
Antimony	mg/kg	NC	NC	1.2 U	--	1.2 U	--	--	--	3.0	--
Arsenic	mg/kg	16	16	2.0	--	9.7	--	--	--	**21.4**	--
Barium	mg/kg	350	10000	59.1	--	132	--	--	--	2310	--
Beryllium	mg/kg	14	2700	0.57 U	--	1.3	--	--	--	0.85	--
Cadmium	mg/kg	2.5	60	0.20 J	--	0.37 J	--	--	--	1.4	--
Calcium	mg/kg	NC	NC	66900	--	2830	--	--	--	15500	--
Chromium, Total[3]	mg/kg	22	800	10.1	--	23.6	--	--	--	15.8	--
Cobalt	mg/kg	NC	NC	5.2 J	--	15.2	--	--	--	5.7 J	--
Copper	mg/kg	270	10000	13.2	--	31.2	--	--	--	114	--
Iron	mg/kg	NC	NC	11400	--	32500	--	--	--	23200	--
Lead	mg/kg	400	3900	6.3	285	14.5	6.2	5.1	46.0	2230	25.6
Magnesium	mg/kg	NC	NC	21100	--	6000	--	--	--	5730	--
Manganese	mg/kg	2000	10000	330	--	602	--	--	--	392	--
Mercury	mg/kg	0.81	5.7	0.049	--	0.022 J	--	--	--	0.48	--
Nickel	mg/kg	140	10000	10.6	--	35.1	--	--	--	13.8	--
Potassium	mg/kg	NC	NC	1580	--	1650	--	--	--	1060	--
Selenium	mg/kg	36	6800	1.2 U	--	1.2 U	--	--	--	0.86	--
Silver	mg/kg	36	6800	0.60 U	--	0.60 U	--	--	--	189	--
Sodium	mg/kg	NC	NC	220 J	--	275 J	--	--	--	179 J	--
Thallium	mg/kg	NC	NC	1.2 U	--	1.2 U	--	--	--	1.2 U	--
Vanadium	mg/kg	NC	NC	16.8	--	31.4	--	--	--	22.9	--
Zinc	mg/kg	2200	10000	40.2	--	80.4	--	--	--	305	--
Wet Chemistry											
Cyanide (total)	mg/kg	27	10000	0.60 U	--	0.60 U	--	--	--	0.23 J	--
Total Solids	%	NC	NC	83.8	81.0	82.7	89.9	89.1	62.6	81.4	81.8

Notes:

[1] - Reported results were converted from ug/kg (ppb) to mg/kg (ppm) for ease of comparison to criteria.

[2] - Sample results from locations identified as on-Site are compared to the Restricted Use - Industrial SCO. Sample results identified as off-Site are compared to the Restricted Use - Residential SCO.

[3] - The Restricted Use Soil Cleanup Objective (RUSCO) for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO. The most restrictive SCO for hexavalent Chromium was used for comparison to the total chromium results.

1.0 - Exceeds Criteria

U - Not present at the associated value.

J - Estimated concentration.

NC - No criteria.

TABLE 6.4

VOC ANALYTICAL RESULTS SUMMARY- SUBSURFACE
SOIL
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*MW-6A*	*MW-14*	*MW-17*	*MW-19*	*MW-19*	*MW-19A*	*MW-20*	*MW-20A*	*MW-21A*	*MW-22*
Sample Name:				*SO-37191-052709-JJW-001*	*SB-37191-050808-JP-011*	*SB-37191-050908-JP-002*	*SO-37191-060409-JJW-008*	*SO-37191-060409-JJW-009*	*SO-37191-052709-JJW-002*	*SO-37191-060409-JJW-007*	*SO-37191-060109-JJW-003*	*SO-37191-060109-JJW-004*	*SO-37191-060809-JJW-010*
Sample Date:				*5/27/2009*	*5/8/2008*	*5/9/2008*	*6/4/2009*	*6/4/2009*	*5/27/2009*	*6/4/2009*	*6/1/2009*	*6/1/2009*	*6/8/2009*
Depth:				*6-8 ft BGS*	*0-2 ft BGS*	*0-2 ft BGS*	*6-8 ft BGS*	*6-8 ft BGS*	*6-8 ft BGS*	*2-4 ft BGS*	*6-8 ft BGS*	*2-4 ft BGS*	*10-12 ft BGS*
On/Off - Site				*On-Site*	*Off-Site*	*On-Site*	*On-Site*	*On-Site Duplicate*	*On-Site*	*On-Site*	*On-Site*	*On-Site*	*Off-Site*
Parameters	*Units* [1]	*6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health* [2] *Residential*	*Industrial*										
Volatile Organic Compounds													
1,1,1-Trichloroethane	mg/kg	100	1000	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
1,1,2,2-Tetrachloroethane	mg/kg	NC	NC	0.0063 UJ	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 UJ	0.0062 U	0.0061 U	0.0063 U	0.0057 UJ
1,1,2-Trichloroethane	mg/kg	NC	NC	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
1,1-Dichloroethane	mg/kg	19	480	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
1,1-Dichloroethene	mg/kg	100	1000	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
1,2,4-Trichlorobenzene	mg/kg	NC	NC	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 UJ	0.0062 U	0.0061 U	0.0063 U	0.0057 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	NC	NC	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 UJ	0.0062 UJ	0.0061 UJ	0.0063 UJ	0.0057 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	NC	NC	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
1,2-Dichlorobenzene	mg/kg	100	1000	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
1,2-Dichloroethane	mg/kg	2.3	60	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
1,2-Dichloropropane	mg/kg	NC	NC	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
1,3-Dichlorobenzene	mg/kg	17	560	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
1,4-Dichlorobenzene	mg/kg	9.8	250	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	100	1000	0.0063 UJ	0.0061 U	0.0058 U	0.24 J	0.26 J	0.29 U	0.0062 UJ	0.0061 U	0.0063 U	0.0057 U
2-Hexanone	mg/kg	NC	NC	0.0063 UJ	0.0061 U	0.0058 U	0.28 UJ	0.28 UJ	0.29 U	0.0062 UJ	0.0061 UJ	0.0063 UJ	0.0057 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	NC	NC	0.0063 UJ	0.0061 U	0.0058 U	0.28 UJ	0.28 UJ	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
Acetone	mg/kg	100	1000	0.011 J	0.024 UJ	0.023 UJ	1.1 UJ	1.1 UJ	1.2 UJ	0.025 UJ	0.024 UJ	0.025 UJ	0.023 UJ
Benzene	mg/kg	2.9	89	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
Bromodichloromethane	mg/kg	NC	NC	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
Bromoform	mg/kg	NC	NC	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
Bromomethane (Methyl Bromide)	mg/kg	NC	NC	0.0063 U	0.0061 UJ	0.0058 UJ	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
Carbon disulfide	mg/kg	NC	NC	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
Carbon tetrachloride	mg/kg	1.4	44	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
Chlorobenzene	mg/kg	100	1000	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
Chloroethane	mg/kg	NC	NC	0.0063 U	0.0061 UJ	0.0058 UJ	0.28 U	0.28 U	0.29 U	0.0062 UJ	0.0061 UJ	0.0063 UJ	0.0057 UJ
Chloroform (Trichloromethane)	mg/kg	10	700	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
Chloromethane (Methyl Chloride)	mg/kg	NC	NC	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
cis-1,2-Dichloroethene	mg/kg	59	1000	0.029	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.001 J	0.0057 U
cis-1,3-Dichloropropene	mg/kg	NC	NC	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 UJ	0.0063 UJ	0.0057 U
Cyclohexane	mg/kg	NC	NC	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
Dibromochloromethane	mg/kg	NC	NC	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 UJ	0.0063 UJ	0.0057 U
Dichlorodifluoromethane (CFC-12)	mg/kg	NC	NC	0.0063 U	0.0061 U	0.0058 U	0.28 UJ	0.28 UJ	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 UJ
Ethylbenzene	mg/kg	30	780	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
Isopropylbenzene	mg/kg	NC	NC	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
Methyl acetate	mg/kg	NC	NC	0.0063 U	0.0061 U	0.0058 U	0.28 UJ	0.28 UJ	0.29 UJ	0.0062 UJ	0.0061 UJ	0.0063 UJ	0.0057 U
Methyl cyclohexane	mg/kg	NC	NC	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
Methyl Tert Butyl Ether	mg/kg	62	1000	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
Methylene chloride	mg/kg	51	1000	0.0063 U	0.031	0.0097	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
Styrene	mg/kg	NC	NC	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
Tetrachloroethene	mg/kg	5.5	300	0.0063 U	0.0061 U	0.0058 U	0.046 J	0.053 J	0.078 J	0.0062 U	0.0061 U	0.0063 U	0.0057 U
Toluene	mg/kg	100	1000	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0022 J
trans-1,2-Dichloroethene	mg/kg	100	1000	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
trans-1,3-Dichloropropene	mg/kg	NC	NC	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
Trichloroethene	mg/kg	10	400	0.021	0.0061 U	0.0058 U	1.8	1.3	4.6	0.0062 U	0.0061 U	0.0037 J	0.0057 U
Trichlorofluoromethane (CFC-11)	mg/kg	NC	NC	0.0063 U	0.0061 U	0.0058 U	0.28 UJ	0.28 UJ	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
Trifluorotrichloroethane (Freon 113)	mg/kg	NC	NC	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
Vinyl chloride	mg/kg	0.21	27	0.0063 U	0.0061 U	0.0058 U	0.28 U	0.28 U	0.29 U	0.0062 U	0.0061 U	0.0063 U	0.0057 U
Xylene (total)	mg/kg	100	1000	0.019 U	0.018 U	0.017 U	0.83 U	0.83 U	0.88 U	0.019 U	0.018 U	0.019 U	0.017 U

Notes:

[1] - Reported results were converted from ug/kg (ppb) to mg/kg (ppm) for ease of comparison to criteria.

[2] - Sample results from locations identified as on-Site are compared to the Restricted Use - Industrial SCO.
Sample results identified as off-Site are compared to the Restricted Use - Residential SCO.
1.0 - Exceeds Criteria

U - Not present at the associated value.
J - Estimated concentration.
NC - No criteria.

TABLE 6.4

VOC ANALYTICAL RESULTS SUMMARY- SUBSURFACE
SOIL
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*MW-22A*	*MW-23A*	*MW-24A*	*MW-25*	*MW-25A*	*SB-10-07*	*SB-1-07*	*SB-11-07*	*SB-12-07*
Sample Name:				*SO-37191-060109-JJW-005*	*SO-37191-060209-JJW-006*	*SO-37191-062209-JJW-011*	*SO-37191-062209-JJW-013*	*SO-37191-062209-JJW-012*	*SO-37191-072507-RN-SB-10*	*SO-37191-072507-RN-SB-1*	*SO-37191-072607-RN-SB-11*	*SO-37191-072607-RN-SB-12*
Sample Date:				*6/1/2009*	*6/2/2009*	*6/22/2009*	*6/22/2009*	*6/22/2009*	*7/25/2007*	*7/25/2007*	*7/26/2007*	*7/26/2007*
Depth:				*10-12 ft BGS*	*12-14 ft BGS*	*0-2 ft BGS*	*6-8 ft BGS*	*4-6 ft BGS*	*3-8 ft BGS*	*2-4 ft BGS*	*2-6 ft BGS*	*3.5-6 ft BGS*
On/Off - Site				*Off-Site*	*Off-Site*	*Off-Site*	*Off-Site*	*Off-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*
Parameters	*Units* [1]	*6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health* [2] *Residential*	*Industrial*									
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/kg	100	1000	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
1,1,2,2-Tetrachloroethane	mg/kg	NC	NC	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
1,1,2-Trichloroethane	mg/kg	NC	NC	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
1,1-Dichloroethane	mg/kg	19	480	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
1,1-Dichloroethene	mg/kg	100	1000	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
1,2,4-Trichlorobenzene	mg/kg	NC	NC	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	NC	NC	0.0061 UJ	0.0059 UJ	0.0065 UJ	0.0055 UJ	0.006 UJ	0.0059 U	0.0069 U	0.0067 U	0.0062 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	NC	NC	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
1,2-Dichlorobenzene	mg/kg	100	1000	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
1,2-Dichloroethane	mg/kg	2.3	60	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
1,2-Dichloropropane	mg/kg	NC	NC	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
1,3-Dichlorobenzene	mg/kg	17	560	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
1,4-Dichlorobenzene	mg/kg	9.8	250	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	100	1000	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
2-Hexanone	mg/kg	NC	NC	0.0061 UJ	0.0059 UJ	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	NC	NC	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
Acetone	mg/kg	100	1000	0.024 UJ	0.024 UJ	0.026 U	0.022 U	0.024 U	0.012 J	0.028 U	0.027 U	0.0085 J
Benzene	mg/kg	2.9	89	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
Bromodichloromethane	mg/kg	NC	NC	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
Bromoform	mg/kg	NC	NC	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 UJ	0.0069 UJ	0.0067 UJ	0.0062 UJ
Bromomethane (Methyl Bromide)	mg/kg	NC	NC	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 UJ	0.0069 UJ	0.0067 UJ	0.0062 UJ
Carbon disulfide	mg/kg	NC	NC	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
Carbon tetrachloride	mg/kg	1.4	44	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
Chlorobenzene	mg/kg	100	1000	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
Chloroethane	mg/kg	NC	NC	0.0061 UJ	0.0059 UJ	0.0065 U	0.0055 U	0.006 U	0.0059 UJ	0.0069 UJ	0.0067 UJ	0.0062 UJ
Chloroform (Trichloromethane)	mg/kg	10	700	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
Chloromethane (Methyl Chloride)	mg/kg	NC	NC	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
cis-1,2-Dichloroethene	mg/kg	59	1000	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.035	0.031
cis-1,3-Dichloropropene	mg/kg	NC	NC	0.0061 UJ	0.0059 UJ	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
Cyclohexane	mg/kg	NC	NC	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
Dibromochloromethane	mg/kg	NC	NC	0.0061 UJ	0.0059 UJ	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
Dichlorodifluoromethane (CFC-12)	mg/kg	NC	NC	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
Ethylbenzene	mg/kg	30	780	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
Isopropylbenzene	mg/kg	NC	NC	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
Methyl acetate	mg/kg	NC	NC	0.0061 UJ	0.0059 UJ	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
Methyl cyclohexane	mg/kg	NC	NC	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
Methyl Tert Butyl Ether	mg/kg	62	1000	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
Methylene chloride	mg/kg	51	1000	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
Styrene	mg/kg	NC	NC	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
Tetrachloroethene	mg/kg	5.5	300	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.037	0.0062 U
Toluene	mg/kg	100	1000	0.0061 U	0.0059 U	0.0011 J	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
trans-1,2-Dichloroethene	mg/kg	100	1000	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
trans-1,3-Dichloropropene	mg/kg	NC	NC	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
Trichloroethene	mg/kg	10	400	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0017 J	0.0069 U	0.21	0.035
Trichlorofluoromethane (CFC-11)	mg/kg	NC	NC	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 UJ	0.0069 UJ	0.0067 UJ	0.0062 UJ
Trifluorotrichloroethane (Freon 113)	mg/kg	NC	NC	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
Vinyl chloride	mg/kg	0.21	27	0.0061 U	0.0059 U	0.0065 U	0.0055 U	0.006 U	0.0059 U	0.0069 U	0.0067 U	0.0062 U
Xylene (total)	mg/kg	100	1000	0.018 U	0.018 U	0.02 U	0.017 U	0.018 U	0.018 U	0.021 U	0.02 U	0.019 U

Notes:

[1] - Reported results were converted from ug/kg (ppb) to mg/kg (ppm) for ease of comparison to criteria.

[2] - Sample results from locations identified as on-Site are compared to the Restricted Use - Industrial SCO.
Sample results identified as off-Site are compared to the Restricted Use - Residential SCO.
1.0 - Exceeds Criteria

U - Not present at the associated value.
J - Estimated concentration.
NC - No criteria.

TABLE 6.4

VOC ANALYTICAL RESULTS SUMMARY- SUBSURFACE SOIL
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*SB-13-07*	*SB-14-07*	*SB-15-07*	*SB-16-07*	*SB-17-07*	*SB-17-07*	*SB-18-07*	*SB-18-08*	*SB-2-07*
Sample Name:				*SO-37191-072607-RN-SB-13*	*SO-37191-072607-RN-SB-14*	*SO-37191-072607-RN-SB-15*	*SO-37191-072607-RN-SB-16*	*SO-37191-072707-RN-SB-17*	*SO-37191-072707-RN-SB-27*	*SO-37191-073007-CB-SB18*	*SB-37191-050908-JP-001*	*SO-37191-072707-RN-SB-2*
Sample Date:				*7/26/2007*	*7/26/2007*	*7/26/2007*	*7/26/2007*	*7/27/2007*	*7/27/2007*	*7/30/2007*	*5/9/2008*	*7/27/2007*
Depth:				*6-8 ft BGS*	*4-8 ft BGS*	*4-8 ft BGS*	*4-8 ft BGS*	*6-10 ft BGS*	*6-10 ft BGS*	*4-7.2 ft BGS*	*0-2 ft BGS*	*6.5-8 ft BGS*
On/Off - Site				*On-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*	*Off-Site*	*On-Site*
									Dupilcate			
Parameters	*Units* [1]	*6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health* [2] *Residential*	*Industrial*									
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/kg	100	1000	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
1,1,2,2-Tetrachloroethane	mg/kg	NC	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
1,1,2-Trichloroethane	mg/kg	NC	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
1,1-Dichloroethane	mg/kg	19	480	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
1,1-Dichloroethene	mg/kg	100	1000	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0019 J	0.0052 U	0.0061 U	0.0062 U
1,2,4-Trichlorobenzene	mg/kg	NC	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	NC	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	NC	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
1,2-Dichlorobenzene	mg/kg	100	1000	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
1,2-Dichloroethane	mg/kg	2.3	60	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
1,2-Dichloropropane	mg/kg	NC	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
1,3-Dichlorobenzene	mg/kg	17	560	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
1,4-Dichlorobenzene	mg/kg	9.8	250	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	100	1000	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
2-Hexanone	mg/kg	NC	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	NC	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
Acetone	mg/kg	100	1000	0.1 J	0.023 UJ	0.024 U	0.027 UJ	0.029 U	0.023 U	0.021 U	0.024 UJ	0.025 UJ
Benzene	mg/kg	2.9	89	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
Bromodichloromethane	mg/kg	NC	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
Bromoform	mg/kg	NC	NC	0.31 U	0.0057 UJ	0.0061 UJ	0.0067 UJ	0.0072 UJ	0.0057 UJ	0.0052 UJ	0.0061 U	0.0062 UJ
Bromomethane (Methyl Bromide)	mg/kg	NC	NC	0.31 U	0.0057 UJ	0.0061 UJ	0.0067 UJ	0.0072 UJ	0.0057 UJ	0.0052 UJ	0.0061 UJ	0.0062 UJ
Carbon disulfide	mg/kg	NC	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
Carbon tetrachloride	mg/kg	1.4	44	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
Chlorobenzene	mg/kg	100	1000	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
Chloroethane	mg/kg	NC	NC	0.31 U	0.0057 UJ	0.0061 UJ	0.0067 UJ	0.0072 UJ	0.0057 UJ	0.0052 UJ	0.0061 UJ	0.0062 UJ
Chloroform (Trichloromethane)	mg/kg	10	700	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
Chloromethane (Methyl Chloride)	mg/kg	NC	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
cis-1,2-Dichloroethene	mg/kg	59	1000	0.71	0.0057 U	0.0061 U	0.0067 U	0.19	0.23	0.0052 U	0.0061 U	0.0014 J
cis-1,3-Dichloropropene	mg/kg	NC	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
Cyclohexane	mg/kg	NC	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
Dibromochloromethane	mg/kg	NC	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
Dichlorodifluoromethane (CFC-12)	mg/kg	NC	NC	0.31 UJ	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
Ethylbenzene	mg/kg	30	780	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0025 J	0.0052 U	0.0061 U	0.0062 U
Isopropylbenzene	mg/kg	NC	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
Methyl acetate	mg/kg	NC	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
Methyl cyclohexane	mg/kg	NC	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
Methyl Tert Butyl Ether	mg/kg	62	1000	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
Methylene chloride	mg/kg	51	1000	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.011	0.0062 U
Styrene	mg/kg	NC	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
Tetrachloroethene	mg/kg	5.5	300	0.13 J	0.0057 U	0.0061 U	0.0025 J	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
Toluene	mg/kg	100	1000	0.15 J	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
trans-1,2-Dichloroethene	mg/kg	100	1000	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0048 J	0.0048 J	0.0052 U	0.0061 U	0.0062 U
trans-1,3-Dichloropropene	mg/kg	NC	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
Trichloroethene	mg/kg	10	400	9.7	0.0022 J	0.037	0.008	0.14 J	0.13	0.0052 U	0.0061 U	0.0019 J
Trichlorofluoromethane (CFC-11)	mg/kg	NC	NC	0.31 U	0.0057 U	0.0061 UJ	0.0067 U	0.0072 UJ	0.0057 UJ	0.0052 U	0.0061 U	0.0062 U
Trifluorotrichloroethane (Freon 113)	mg/kg	NC	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0072 U	0.0057 U	0.0052 U	0.0061 U	0.0062 U
Vinyl chloride	mg/kg	0.21	27	0.31 U	0.0057 U	0.0061 U	0.0067 U	0.0081	0.017	0.0052 U	0.0061 U	0.0062 U
Xylene (total)	mg/kg	100	1000	0.92 U	0.017 U	0.018 U	0.02 U	0.022 U	0.0077 J	0.016 U	0.018 U	0.019 U

Notes:

[1] - Reported results were converted from ug/kg (ppb) to mg/kg (ppm) for ease of comparison to criteria.

[2] - Sample results from locations identified as on-Site are compared to the Restricted Use - Industrial SCO.
Sample results identified as off-Site are compared to the Restricted Use - Residential SCO.
1.0 - Exceeds Criteria

U - Not present at the associated value.
J - Estimated concentration.
NC - No criteria.

TABLE 6.4

VOC ANALYTICAL RESULTS SUMMARY- SUBSURFACE
SOIL
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*SB-2-07*	*SB-3-07*	*SB-4-07*	*SB-5-07*	*SB-6-07*	*SB-6-07*	*SB-7-07*	*SB-8-07*	*SB-9-07*
Sample Name:				*SO-37191-072707-RN-SB-20*	*SO-37191-072707-RN-SB-3*	*SO-37191-072707-RN-SB-4*	*SO-37191-072507-RN-SB-05*	*SO-37191-073007-CB-SB6*	*SO-37191-073007-CB-SB19*	*SO-37191-072507-RN-SB-7*	*SO-37191-072507-RN-SB-8*	*SO-37191-072507-RN-SB-9*
Sample Date:				*7/27/2007*	*7/27/2007*	*7/27/2007*	*7/25/2007*	*7/30/2007*	*7/30/2007*	*7/25/2007*	*7/25/2007*	*7/25/2007*
Depth:				*6.5-8 ft BGS*	*10-13 ft BGS*	*2-4 ft BGS*	*4-8 ft BGS*	*6-10.4 ft BGS*	*6-10.4 ft BGS*	*3-6 ft BGS*	*3.5-8 ft BGS*	*3-6 ft BGS*
On/Off - Site				*On-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*
				Duplicate				*Duplicate*				
Parameters	*Units* [1]	*6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health* [2] *Residential*	*Industrial*									
Volatile Organic Compounds												
1,1,1-Trichloroethane	mg/kg	100	1000	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
1,1,2,2-Tetrachloroethane	mg/kg	NC	NC	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
1,1,2-Trichloroethane	mg/kg	NC	NC	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
1,1-Dichloroethane	mg/kg	19	480	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
1,1-Dichloroethene	mg/kg	100	1000	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
1,2,4-Trichlorobenzene	mg/kg	NC	NC	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	NC	NC	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	NC	NC	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
1,2-Dichlorobenzene	mg/kg	100	1000	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
1,2-Dichloroethane	mg/kg	2.3	60	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
1,2-Dichloropropane	mg/kg	NC	NC	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
1,3-Dichlorobenzene	mg/kg	17	560	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
1,4-Dichlorobenzene	mg/kg	9.8	250	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	100	1000	0.0067 U	0.006 U	0.0062 U	0.006 U	0.12 J	0.28 U	0.4 U	0.0061 U	0.0061 U
2-Hexanone	mg/kg	NC	NC	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	NC	NC	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
Acetone	mg/kg	100	1000	0.023 J	0.024 UJ	0.025 U	0.024 U	1.1 U	1.1 U	1.6 UJ	0.025 UJ	0.024 U
Benzene	mg/kg	2.9	89	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
Bromodichloromethane	mg/kg	NC	NC	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
Bromoform	mg/kg	NC	NC	0.0067 UJ	0.006 UJ	0.0062 UJ	0.006 UJ	0.28 U	0.28 U	0.4 U	0.0061 UJ	0.0061 UJ
Bromomethane (Methyl Bromide)	mg/kg	NC	NC	0.0067 UJ	0.006 UJ	0.0062 UJ	0.006 UJ	0.28 U	0.28 U	0.4 U	0.0061 UJ	0.0061 UJ
Carbon disulfide	mg/kg	NC	NC	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
Carbon tetrachloride	mg/kg	1.4	44	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
Chlorobenzene	mg/kg	100	1000	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
Chloroethane	mg/kg	NC	NC	0.0067 UJ	0.006 UJ	0.0062 UJ	0.006 UJ	0.28 U	0.28 U	0.4 U	0.0061 UJ	0.0061 UJ
Chloroform (Trichloromethane)	mg/kg	10	700	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
Chloromethane (Methyl Chloride)	mg/kg	NC	NC	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
cis-1,2-Dichloroethene	mg/kg	59	1000	0.0067 U	0.006 U	0.0062 U	0.012	0.091 J	0.066 J	0.3 J	0.0028 J	0.025
cis-1,3-Dichloropropene	mg/kg	NC	NC	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
Cyclohexane	mg/kg	NC	NC	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
Dibromochloromethane	mg/kg	NC	NC	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
Dichlorodifluoromethane (CFC-12)	mg/kg	NC	NC	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 UJ	0.0061 U	0.0061 U
Ethylbenzene	mg/kg	30	780	0.0067 U	0.006 U	0.0062 U	0.006 U	0.2 J	0.28 U	0.4 U	0.0061 U	0.0061 U
Isopropylbenzene	mg/kg	NC	NC	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
Methyl acetate	mg/kg	NC	NC	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
Methyl cyclohexane	mg/kg	NC	NC	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
Methyl Tert Butyl Ether	mg/kg	62	1000	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
Methylene chloride	mg/kg	51	1000	0.0067 U	0.006 U	0.0062 U	0.006 U	0.38 U	0.28 U	0.4 U	0.0061 U	0.0061 U
Styrene	mg/kg	NC	NC	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
Tetrachloroethene	mg/kg	5.5	300	0.0067 U	0.0017 J	0.0062 U	0.006 U	0.18 J	0.086 J	0.4 U	0.0061 U	0.0061 U
Toluene	mg/kg	100	1000	0.0067 U	0.006 U	0.0062 U	0.006 U	0.4	0.079 J	0.4 U	0.0061 U	0.0061 U
trans-1,2-Dichloroethene	mg/kg	100	1000	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
trans-1,3-Dichloropropene	mg/kg	NC	NC	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
Trichloroethene	mg/kg	10	400	0.0067 U	0.006 U	0.0062 U	0.083	0.51	0.5	6.8	0.058	0.076
Trichlorofluoromethane (CFC-11)	mg/kg	NC	NC	0.0067 UJ	0.006 U	0.0062 UJ	0.006 UJ	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 UJ
Trifluorotrichloroethane (Freon 113)	mg/kg	NC	NC	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
Vinyl chloride	mg/kg	0.21	27	0.0067 U	0.006 U	0.0062 U	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U	0.0061 U
Xylene (total)	mg/kg	100	1000	0.02 U	0.018 U	0.019 U	0.018 U	0.79 J	0.84 U	1.2 U	0.018 U	0.018 U

Notes:

[1] - Reported results were converted from ug/kg (ppb) to mg/kg (ppm) for ease of comparison to criteria.

[2] - Sample results from locations identified as on-Site are compared to the Restricted Use - Industrial SCO.
Sample results identified as off-Site are compared to the Restricted Use - Residential SCO.
1.0 - Exceeds Criteria

U - Not present at the associated value.
J - Estimated concentration.
NC - No criteria.

TABLE 6.5

SVOC ANALYTICAL RESULTS SUMMARY- SUBSURFACE
SOIL
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*MW-14*	*MW-17*	*SB-10-07*	*SB-1-07*	*SB-11-07*	*SB-12-07*	*SB-13-07*
Sample Name:				*SB-37191-050808-JP-011*	*SB-37191-050908-JP-002*	*SO-37191-072507-RN-SB-10*	*SO-37191-072507-RN-SB-1*	*SO-37191-072607-RN-SB-11*	*SO-37191-072607-RN-SB-12*	*SO-37191-072607-RN-SB-13*
Sample Date:				*5/8/2008*	*5/9/2008*	*7/25/2007*	*7/25/2007*	*7/26/2007*	*7/26/2007*	*7/26/2007*
Depth:				*0-2 ft BGS*	*0-2 ft BGS*	*3-8 ft BGS*	*2-4 ft BGS*	*2-6 ft BGS*	*3.5-6 ft BGS*	*6-8 ft BGS*
On/Off - Site				*Off-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*
Parameters	*Units* [1]	*6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health* [2] *Residential*	*Industrial*							
Semivolatile Organic Compounds										
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/kg	NC	NC	0.082 U	0.077 U	0.079 U	0.093 U	0.089 U	0.083 U	0.082 U
2,4,5-Trichlorophenol	mg/kg	NC	NC	0.4 U	0.38 U	0.39 U	0.46 U	0.44 U	0.41 U	0.4 U
2,4,6-Trichlorophenol	mg/kg	NC	NC	0.4 U	0.38 U	0.39 U	0.46 U	0.44 U	0.41 U	0.4 U
2,4-Dichlorophenol	mg/kg	NC	NC	0.082 U	0.077 U	0.079 U	0.093 U	0.089 U	0.083 U	0.082 U
2,4-Dimethylphenol	mg/kg	NC	NC	0.4 U	0.38 U	0.39 U	0.46 U	0.44 U	0.41 U	0.4 U
2,4-Dinitrophenol	mg/kg	NC	NC	2 U	1.9 U	2 UJ	2.3 UJ	2.2 UJ	2.1 UJ	2 UJ
2,4-Dinitrotoluene	mg/kg	NC	NC	0.4 U	0.38 U	0.39 U	0.46 U	0.44 U	0.41 U	0.4 U
2,6-Dinitrotoluene	mg/kg	NC	NC	0.4 U	0.38 U	0.39 U	0.46 U	0.44 U	0.41 U	0.4 U
2-Chloronaphthalene	mg/kg	NC	NC	0.082 U	0.077 U	0.079 U	0.093 U	0.089 U	0.083 U	0.082 U
2-Chlorophenol	mg/kg	NC	NC	0.4 U	0.38 U	0.39 U	0.46 U	0.44 U	0.41 U	0.4 U
2-Methylnaphthalene	mg/kg	NC	NC	0.022 J	0.17	0.079 U	0.076 J	0.089 U	0.083 U	0.082 U
2-Methylphenol	mg/kg	100	1000	0.4 U	0.38 U	0.39 U	0.46 U	0.44 U	0.41 U	0.4 U
2-Nitroaniline	mg/kg	NC	NC	2 U	1.9 U	2 U	2.3 U	2.2 U	2.1 U	2 U
2-Nitrophenol	mg/kg	NC	NC	0.4 U	0.38 U	0.39 U	0.46 U	0.44 U	0.41 U	0.4 U
3,3'-Dichlorobenzidine	mg/kg	NC	NC	0.4 U	0.38 U	0.39 U	0.46 U	0.44 U	0.41 U	0.4 U
3-Nitroaniline	mg/kg	NC	NC	2 U	1.9 U	2 U	2.3 U	2.2 U	2.1 U	2 U
4,6-Dinitro-2-methylphenol	mg/kg	NC	NC	1.9 U	1.8 U	1.8 U	2.2 U	2.1 U	2 U	1.9 U
4-Bromophenyl phenyl ether	mg/kg	NC	NC	0.4 U	0.38 U	0.39 U	0.46 U	0.44 U	0.41 U	0.4 U
4-Chloro-3-methylphenol	mg/kg	NC	NC	0.4 U	0.38 U	0.39 U	0.46 U	0.44 U	0.41 U	0.4 U
4-Chloroaniline	mg/kg	NC	NC	0.4 U	0.38 U	0.39 U	0.46 U	0.44 U	0.41 U	0.4 U
4-Chlorophenyl phenyl ether	mg/kg	NC	NC	0.4 U	0.38 U	0.39 U	0.46 U	0.44 U	0.41 U	0.4 U
4-Methylphenol	mg/kg	34	1000	0.4 U	0.38 U	0.39 U	0.46 U	0.44 U	0.41 U	0.4 U
4-Nitroaniline	mg/kg	NC	NC	2 U	1.9 U	2 U	2.3 U	2.2 U	2.1 U	2 U
4-Nitrophenol	mg/kg	NC	NC	2 U	1.9 U	2 U	2.3 U	2.2 U	2.1 U	2 U
Acenaphthene	mg/kg	100	1000	0.082 U	0.11	0.079 U	0.093 U	0.027 J	0.083 U	0.082 U
Acenaphthylene	mg/kg	100	1000	0.047 J	0.96	0.079 U	0.093 U	0.089 U	0.083 U	0.082 U
Acetophenone	mg/kg	NC	NC	0.4 U	0.38 U	0.39 U	0.46 U	0.44 U	0.41 U	0.4 U
Anthracene	mg/kg	100	1000	0.062 J	1.4	0.028 J	0.093 U	0.2	0.083 U	0.082 U
Atrazine	mg/kg	NC	NC	0.4 U	0.38 U	0.39 UJ	0.46 UJ	0.44 UJ	0.41 UJ	0.4 U
Benzaldehyde	mg/kg	NC	NC	0.4 U	0.38 U	0.39 UJ	0.46 UJ	0.44 UJ	0.41 UJ	0.4 UJ
Benzo(a)anthracene	mg/kg	1	11	0.26	3.7	0.09	0.061 J	0.78	0.083 U	0.082 U
Benzo(a)pyrene	mg/kg	1	1.1	0.26	**2.8**	0.085	0.047 J	0.78	0.083 U	0.082 U
Benzo(b)fluoranthene	mg/kg	1	11	0.51	5	0.11	0.044 J	0.93	0.083 U	0.082 U
Benzo(g,h,i)perylene	mg/kg	100	1000	0.15	2.1	0.085	0.081 J	0.68	0.083 U	0.082 U
Benzo(k)fluoranthene	mg/kg	1	110	0.082 U	0.077 U	0.045 J	0.022 J	0.3	0.083 U	0.082 U
Biphenyl (1,1-Biphenyl)	mg/kg	NC	NC	0.4 U	0.057 J	0.39 U	0.46 U	0.44 U	0.41 U	0.4 U
bis(2-Chloroethoxy)methane	mg/kg	NC	NC	0.4 U	0.38 U	0.39 U	0.46 U	0.44 U	0.41 U	0.4 U
bis(2-Chloroethyl)ether	mg/kg	NC	NC	0.082 U	0.077 U	0.079 U	0.093 U	0.089 U	0.083 U	0.082 U
bis(2-Ethylhexyl)phthalate	mg/kg	NC	NC	0.4 U	0.72	0.087 J	0.46 U	0.44 U	0.11 J	0.051 J
Butyl benzylphthalate	mg/kg	NC	NC	0.4 U	0.38 U	0.39 U	0.46 U	0.44 U	0.41 U	0.4 U
Caprolactam	mg/kg	NC	NC	0.085 J	0.38 U	0.39 U	0.46 U	0.44 U	0.41 U	0.4 U
Carbazole	mg/kg	NC	NC	0.031 J	0.4	0.079 U	0.093 U	0.042 J	0.083 U	0.082 U
Chrysene	mg/kg	1	110	0.31	2.9	0.087	0.1	0.7	0.083 U	0.082 U
Dibenz(a,h)anthracene	mg/kg	0.33	1.1	0.04 J	0.66	0.079 U	0.093 U	0.09	0.083 U	0.082 U
Dibenzofuran	mg/kg	14	1000	0.4 U	0.37 J	0.39 U	0.036 J	0.03 J	0.41 U	0.4 U
Diethyl phthalate	mg/kg	NC	NC	0.4 U	0.38 U	0.39 U	0.54	0.26 J	0.41 U	0.039 J
Dimethyl phthalate	mg/kg	NC	NC	0.4 U	0.38 U	0.39 U	0.46 U	0.44 U	0.41 U	0.4 U
Di-n-butylphthalate	mg/kg	NC	NC	0.4 U	0.38 U	0.39 U	0.46 U	0.44 U	0.41 U	0.4 U
Di-n-octyl phthalate	mg/kg	NC	NC	0.4 U	0.38 U	0.39 U	0.46 U	0.44 U	0.41 U	0.4 U
Fluoranthene	mg/kg	100	1000	0.52	7.1	0.15	0.11	1.3	0.083 U	0.082 U

TABLE 6.5

SVOC ANALYTICAL RESULTS SUMMARY- SUBSURFACE
SOIL
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*MW-14*	*MW-17*	*SB-10-07*	*SB-1-07*	*SB-11-07*	*SB-12-07*	*SB-13-07*
Sample Name:				*SB-37191-050808-JP-011*	*SB-37191-050908-JP-002*	*SO-37191-072507-RN-SB-10*	*SO-37191-072507-RN-SB-1*	*SO-37191-072607-RN-SB-11*	*SO-37191-072607-RN-SB-12*	*SO-37191-072607-RN-SB-13*
Sample Date:				*5/8/2008*	*5/9/2008*	*7/25/2007*	*7/25/2007*	*7/26/2007*	*7/26/2007*	*7/26/2007*
Depth:				*0-2 ft BGS*	*0-2 ft BGS*	*3-8 ft BGS*	*2-4 ft BGS*	*2-6 ft BGS*	*3.5-6 ft BGS*	*6-8 ft BGS*
On/Off - Site				*Off-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*
		6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health[2]								
Parameters	*Units*[1]	*Residential*	*Industrial*							
Fluorene	mg/kg	100	1000	0.082 U	0.36	0.079 U	0.093 U	0.034 J	0.083 U	0.082 U
Hexachlorobenzene	mg/kg	0.33	12	0.082 U	0.077 U	0.079 U	0.093 U	0.089 U	0.083 U	0.082 U
Hexachlorobutadiene	mg/kg	NC	NC	0.082 U	0.077 U	0.079 U	0.093 U	0.089 U	0.083 U	0.082 U
Hexachlorocyclopentadiene	mg/kg	NC	NC	0.4 U	0.38 U	0.39 U	0.46 U	0.44 U	0.41 U	0.4 U
Hexachloroethane	mg/kg	NC	NC	0.4 U	0.38 U	0.39 U	0.46 U	0.44 U	0.41 U	0.4 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.5	11	0.14	2.1	0.076 J	0.055 J	0.55	0.083 U	0.082 U
Isophorone	mg/kg	NC	NC	0.4 U	0.38 U	0.39 U	0.46 U	0.44 U	0.41 U	0.4 U
Naphthalene	mg/kg	100	1000	0.023 J	0.15	0.079 U	0.041 J	0.024 J	0.083 U	0.082 U
Nitrobenzene	mg/kg	NC	NC	0.082 U	0.077 U	0.079 U	0.093 U	0.089 U	0.083 U	0.082 U
N-Nitrosodi-n-propylamine	mg/kg	NC	NC	0.082 U	0.077 U	0.079 U	0.093 U	0.089 U	0.083 U	0.082 U
N-Nitrosodiphenylamine	mg/kg	NC	NC	0.4 U	0.38 U	0.39 U	0.46 U	0.44 U	0.41 U	0.4 U
Pentachlorophenol	mg/kg	2.4	55	0.4 U	0.38 U	0.39 U	0.46 U	0.44 U	0.41 U	0.4 U
Phenanthrene	mg/kg	100	1000	0.22	4.4	0.1	0.15	0.6	0.083 U	0.082 U
Phenol	mg/kg	100	1000	0.082 U	0.077 U	0.079 U	0.093 U	0.089 U	0.083 U	0.082 U
Pyrene	mg/kg	100	1000	0.37	5.1	0.13	0.12	1.3	0.083 U	0.082 U

Notes:

[1] **-** Reported results were converted from ug/kg (ppb) to mg/kg (ppm) for ease of comparison to criteria.

[2] - Sample results from locations identified as on-Site are compared to the Restricted Use - Industrial SCO. Sample results identified as off-Site are compared to the Restricted Use - Residential SCO.

1.0 - Exceeds Criteria

U - Not present at the associated value.

J - Estimated concentration.

NC - No criteria.

TABLE 6.5

SVOC ANALYTICAL RESULTS SUMMARY- SUBSURFACE
SOIL
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*SB-14-07*	*SB-15-07*	*SB-16-07*	*SB-17-07*	*SB-17-07*	*SB-18-07*	*SB-18-08*
Sample Name:				*SO-37191-072607-RN-SB-14*	*SO-37191-072607-RN-SB-15*	*SO-37191-072607-RN-SB-16*	*SO-37191-072707-RN-SB-17*	*SO-37191-072707-RN-SB-27*	*SO-37191-073007-CB-SB18*	*SB-37191-050908-JP-001*
Sample Date:				*7/26/2007*	*7/26/2007*	*7/26/2007*	*7/27/2007*	*7/27/2007*	*7/30/2007*	*5/9/2008*
Depth:				*4-8 ft BGS*	*4-8 ft BGS*	*4-8 ft BGS*	*6-10 ft BGS*	*6-10 ft BGS*	*4-7.2 ft BGS*	*0-2 ft BGS*
On/Off - Site				*On-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*	*Off-Site*	*On-Site*
								Dupilcate		
		6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health[2]								
Parameters	*Units*[1]	*Residential*	*Industrial*							
Semivolatile Organic Compounds										
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/kg	NC	NC	0.077 U	0.082 U	0.09 U	0.097 U	0.076 U	0.07 U	0.16 U
2,4,5-Trichlorophenol	mg/kg	NC	NC	0.38 U	0.4 U	0.44 U	0.48 U	0.38 U	0.34 U	0.79 U
2,4,6-Trichlorophenol	mg/kg	NC	NC	0.38 U	0.4 U	0.44 U	0.48 U	0.38 U	0.34 U	0.79 U
2,4-Dichlorophenol	mg/kg	NC	NC	0.077 U	0.082 U	0.09 U	0.097 U	0.076 U	0.07 U	0.16 U
2,4-Dimethylphenol	mg/kg	NC	NC	0.38 U	0.4 U	0.44 U	0.48 U	0.38 U	0.34 U	0.79 U
2,4-Dinitrophenol	mg/kg	NC	NC	1.9 UJ	2 UJ	2.2 UJ	2.4 UJ	1.9 UJ	1.7 UJ	4 U
2,4-Dinitrotoluene	mg/kg	NC	NC	0.38 U	0.4 U	0.44 U	0.48 U	0.38 U	0.34 U	0.79 U
2,6-Dinitrotoluene	mg/kg	NC	NC	0.38 U	0.4 U	0.44 U	0.48 U	0.38 U	0.34 U	0.79 U
2-Chloronaphthalene	mg/kg	NC	NC	0.077 U	0.082 U	0.09 U	0.097 U	0.076 U	0.07 U	0.16 U
2-Chlorophenol	mg/kg	NC	NC	0.38 U	0.4 U	0.44 U	0.48 U	0.38 U	0.34 U	0.79 U
2-Methylnaphthalene	mg/kg	NC	NC	0.077 U	0.082 U	0.09 U	0.097 U	0.076 U	0.07 U	0.16 U
2-Methylphenol	mg/kg	100	1000	0.38 U	0.4 U	0.44 U	0.48 U	0.38 U	0.34 U	0.79 U
2-Nitroaniline	mg/kg	NC	NC	1.9 U	2 U	2.2 U	2.4 U	1.9 U	1.7 U	4 U
2-Nitrophenol	mg/kg	NC	NC	0.38 U	0.4 U	0.44 U	0.48 U	0.38 U	0.34 U	0.79 U
3,3'-Dichlorobenzidine	mg/kg	NC	NC	0.38 U	0.4 U	0.44 U	0.48 U	0.38 U	0.34 U	0.79 U
3-Nitroaniline	mg/kg	NC	NC	1.9 U	2 U	2.2 U	2.4 U	1.9 U	1.7 U	4 U
4,6-Dinitro-2-methylphenol	mg/kg	NC	NC	1.8 U	1.9 U	2.1 U	2.3 U	1.8 U	1.6 U	3.8 U
4-Bromophenyl phenyl ether	mg/kg	NC	NC	0.38 U	0.4 U	0.44 U	0.48 U	0.38 U	0.34 U	0.79 U
4-Chloro-3-methylphenol	mg/kg	NC	NC	0.38 U	0.4 U	0.44 U	0.48 U	0.38 U	0.34 U	0.79 U
4-Chloroaniline	mg/kg	NC	NC	0.38 U	0.4 U	0.44 U	0.48 U	0.38 U	0.34 U	0.79 U
4-Chlorophenyl phenyl ether	mg/kg	NC	NC	0.38 U	0.4 U	0.44 U	0.48 U	0.38 U	0.34 U	0.79 U
4-Methylphenol	mg/kg	34	1000	0.38 U	0.4 U	0.44 U	0.48 U	0.38 U	0.34 U	0.79 U
4-Nitroaniline	mg/kg	NC	NC	1.9 U	2 U	2.2 U	2.4 U	1.9 U	1.7 U	4 U
4-Nitrophenol	mg/kg	NC	NC	1.9 U	2 U	2.2 U	2.4 U	1.9 U	1.7 U	4 U
Acenaphthene	mg/kg	100	1000	0.077 U	0.082 U	0.09 U	0.097 U	0.076 U	0.07 U	0.16 U
Acenaphthylene	mg/kg	100	1000	0.077 U	0.082 U	0.09 U	0.097 U	0.076 U	0.07 U	0.059 J
Acetophenone	mg/kg	NC	NC	0.38 U	0.4 U	0.44 U	0.48 U	0.38 U	0.34 U	0.79 U
Anthracene	mg/kg	100	1000	0.077 U	0.082 U	0.09 U	0.097 U	0.076 U	0.07 U	0.065 J
Atrazine	mg/kg	NC	NC	0.38 U	0.4 UJ	0.44 U	0.48 UJ	0.38 UJ	0.34 UJ	0.79 U
Benzaldehyde	mg/kg	NC	NC	0.38 UJ	0.4 UJ	0.44 UJ	0.48 UJ	0.38 UJ	0.34 U	0.79 U
Benzo(a)anthracene	mg/kg	1	11	0.077 U	0.082 U	0.09 U	0.084 J	0.076 U	0.055 J	0.23
Benzo(a)pyrene	mg/kg	1	1.1	0.077 U	0.082 U	0.09 U	0.089 J	0.013 J	0.054 J	0.21
Benzo(b)fluoranthene	mg/kg	1	11	0.077 U	0.082 U	0.09 U	0.1	0.076 U	0.069 J	0.35
Benzo(g,h,i)perylene	mg/kg	100	1000	0.077 U	0.082 U	0.09 U	0.042 J	0.076 U	0.07 U	0.14 J
Benzo(k)fluoranthene	mg/kg	1	110	0.077 U	0.082 U	0.09 U	0.028 J	0.076 U	0.034 J	0.16 U
Biphenyl (1,1-Biphenyl)	mg/kg	NC	NC	0.38 U	0.4 U	0.44 U	0.48 U	0.38 U	0.34 U	0.79 U
bis(2-Chloroethoxy)methane	mg/kg	NC	NC	0.38 U	0.4 U	0.44 U	0.48 U	0.38 U	0.34 U	0.79 U
bis(2-Chloroethyl)ether	mg/kg	NC	NC	0.077 U	0.082 U	0.09 U	0.097 U	0.076 U	0.07 U	0.16 U
bis(2-Ethylhexyl)phthalate	mg/kg	NC	NC	0.38 U	0.4 U	0.44 U	0.23 J	0.38 U	0.34 U	0.2 J
Butyl benzylphthalate	mg/kg	NC	NC	0.38 U	0.4 U	0.44 U	0.48 U	0.38 U	0.34 U	0.79 U
Caprolactam	mg/kg	NC	NC	0.38 U	0.4 U	0.44 U	0.48 U	0.38 U	0.34 U	0.79 U
Carbazole	mg/kg	NC	NC	0.077 U	0.082 U	0.09 U	0.097 U	0.076 U	0.07 U	0.059 J
Chrysene	mg/kg	1	110	0.077 U	0.082 U	0.09 U	0.089 J	0.076 U	0.06 J	0.21
Dibenz(a,h)anthracene	mg/kg	0.33	1.1	0.077 U	0.082 U	0.09 U	0.097 U	0.076 U	0.07 U	0.16 U
Dibenzofuran	mg/kg	14	1000	0.38 U	0.4 U	0.44 U	0.48 U	0.38 U	0.34 U	0.79 U
Diethyl phthalate	mg/kg	NC	NC	0.38 U	0.4 U	0.058 J	0.11 J	0.38 U	0.34 U	0.79 U
Dimethyl phthalate	mg/kg	NC	NC	0.38 U	0.4 U	0.44 U	0.48 U	0.38 U	0.34 U	0.79 U
Di-n-butylphthalate	mg/kg	NC	NC	0.38 U	0.4 U	0.44 U	0.48 U	0.38 U	0.34 U	0.79 U
Di-n-octyl phthalate	mg/kg	NC	NC	0.38 U	0.4 U	0.44 U	0.48 U	0.38 U	0.34 U	0.79 U
Fluoranthene	mg/kg	100	1000	0.077 U	0.082 U	0.09 U	0.13	0.076 U	0.056 J	0.42

TABLE 6.5

SVOC ANALYTICAL RESULTS SUMMARY- SUBSURFACE
SOIL
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*SB-14-07*	*SB-15-07*	*SB-16-07*	*SB-17-07*	*SB-17-07*	*SB-18-07*	*SB-18-08*
Sample Name:				*SO-37191-072607-RN-SB-14*	*SO-37191-072607-RN-SB-15*	*SO-37191-072607-RN-SB-16*	*SO-37191-072707-RN-SB-17*	*SO-37191-072707-RN-SB-27*	*SO-37191-073007-CB-SB18*	*SB-37191-050908-JP-001*
Sample Date:				*7/26/2007*	*7/26/2007*	*7/26/2007*	*7/27/2007*	*7/27/2007*	*7/30/2007*	*5/9/2008*
Depth:				*4-8 ft BGS*	*4-8 ft BGS*	*4-8 ft BGS*	*6-10 ft BGS*	*6-10 ft BGS*	*4-7.2 ft BGS*	*0-2 ft BGS*
On/Off - Site				*On-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*	*Off-Site*	*On-Site*
								Dupilcate		
		6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health[2]								
Parameters	*Units*[1]	*Residential*	*Industrial*							
Fluorene	mg/kg	100	1000	0.077 U	0.082 U	0.09 U	0.097 U	0.076 U	0.07 U	0.16 U
Hexachlorobenzene	mg/kg	0.33	12	0.077 U	0.082 U	0.09 U	0.097 U	0.076 U	0.07 U	0.16 U
Hexachlorobutadiene	mg/kg	NC	NC	0.077 U	0.082 U	0.09 U	0.097 U	0.076 U	0.07 U	0.16 U
Hexachlorocyclopentadiene	mg/kg	NC	NC	0.38 U	0.4 U	0.44 U	0.48 U	0.38 U	0.34 U	0.79 U
Hexachloroethane	mg/kg	NC	NC	0.38 U	0.4 U	0.44 U	0.48 U	0.38 U	0.34 U	0.79 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.5	11	0.077 U	0.082 U	0.09 U	0.042 J	0.076 U	0.07 U	0.13 J
Isophorone	mg/kg	NC	NC	0.38 U	0.4 U	0.44 U	0.48 U	0.38 U	0.34 U	0.79 U
Naphthalene	mg/kg	100	1000	0.077 U	0.082 U	0.09 U	0.097 U	0.076 U	0.07 U	0.16 U
Nitrobenzene	mg/kg	NC	NC	0.077 U	0.082 U	0.09 U	0.097 U	0.076 U	0.07 U	0.16 U
N-Nitrosodi-n-propylamine	mg/kg	NC	NC	0.077 U	0.082 U	0.09 U	0.097 U	0.076 U	0.07 U	0.16 U
N-Nitrosodiphenylamine	mg/kg	NC	NC	0.38 U	0.4 U	0.44 U	0.48 U	0.38 U	0.34 U	0.79 U
Pentachlorophenol	mg/kg	2.4	55	0.38 U	0.4 U	0.44 U	0.48 U	0.38 U	0.34 U	0.79 U
Phenanthrene	mg/kg	100	1000	0.077 U	0.082 U	0.09 U	0.081 J	0.076 U	0.07 U	0.23
Phenol	mg/kg	100	1000	0.077 U	0.082 U	0.09 U	0.097 U	0.076 U	0.07 U	0.16 U
Pyrene	mg/kg	100	1000	0.077 U	0.082 U	0.09 U	0.12	0.076 U	0.046 J	0.34

Notes:

[1] **-** Reported results were converted from ug/kg (ppb) to mg/kg (ppm) for ease of comparison to criteria.

[2] - Sample results from locations identified as on-Site are compared to the Restricted Use - Industrial SCO. Sample results identified as off-Site are compared to the Restricted Use - Residential SCO.

1.0 - Exceeds Criteria

U - Not present at the associated value.

J - Estimated concentration.

NC - No criteria.

TABLE 6.5

SVOC ANALYTICAL RESULTS SUMMARY- SUBSURFACE
SOIL
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*SB-2-07*	*SB-2-07*	*SB-3-07*	*SB-4-07*	*SB-5-07*	*SB-6-07*	*SB-6-07*
Sample Name:				*SO-37191-072707-RN-SB-2*	*SO-37191-072707-RN-SB-20*	*SO-37191-072707-RN-SB-3*	*SO-37191-072707-RN-SB-4*	*SO-37191-072507-RN-SB-05*	*SO-37191-073007-CB-SB6*	*SO-37191-073007-CB-SB19*
Sample Date:				*7/27/2007*	*7/27/2007*	*7/27/2007*	*7/27/2007*	*7/25/2007*	*7/30/2007*	*7/30/2007*
Depth:				*6.5-8 ft BGS*	*6.5-8 ft BGS*	*10-13 ft BGS*	*2-4 ft BGS*	*4-8 ft BGS*	*6-10.4 ft BGS*	*6-10.4 ft BGS*
On/Off - Site				*On-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*
					Duplicate				*Duplicate*	
		6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health[2]								
Parameters	*Units*[1]	*Residential*	*Industrial*							
Semivolatile Organic Compounds										
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/kg	NC	NC	0.17 U	0.18 U	0.08 U	0.083 U	0.081 U	0.075 U	0.074 U
2,4,5-Trichlorophenol	mg/kg	NC	NC	0.82 U	0.88 U	0.39 U	0.41 U	0.4 U	0.37 U	0.37 U
2,4,6-Trichlorophenol	mg/kg	NC	NC	0.82 U	0.88 U	0.39 U	0.41 U	0.4 U	0.37 U	0.37 U
2,4-Dichlorophenol	mg/kg	NC	NC	0.17 U	0.18 U	0.08 U	0.083 U	0.081 U	0.075 U	0.074 U
2,4-Dimethylphenol	mg/kg	NC	NC	0.82 U	0.88 U	0.39 U	0.41 U	0.4 U	0.37 U	0.37 U
2,4-Dinitrophenol	mg/kg	NC	NC	4.1 UJ	4.4 UJ	2 UJ	2.1 UJ	2 UJ	1.9 UJ	1.9 UJ
2,4-Dinitrotoluene	mg/kg	NC	NC	0.82 U	0.88 U	0.39 U	0.41 U	0.4 U	0.37 U	0.37 U
2,6-Dinitrotoluene	mg/kg	NC	NC	0.82 U	0.88 U	0.39 U	0.41 U	0.4 U	0.37 U	0.37 U
2-Chloronaphthalene	mg/kg	NC	NC	0.17 U	0.18 U	0.08 U	0.083 U	0.081 U	0.075 U	0.074 U
2-Chlorophenol	mg/kg	NC	NC	0.82 U	0.88 U	0.39 U	0.41 U	0.4 U	0.37 U	0.37 U
2-Methylnaphthalene	mg/kg	NC	NC	0.12 J	0.17 J	0.08 U	0.061 J	0.081 U	0.075 U	0.045 J
2-Methylphenol	mg/kg	100	1000	0.82 U	0.88 U	0.39 U	0.41 U	0.4 U	0.37 U	0.37 U
2-Nitroaniline	mg/kg	NC	NC	4.1 U	4.4 U	2 U	2.1 U	2 U	1.9 U	1.9 U
2-Nitrophenol	mg/kg	NC	NC	0.82 U	0.88 U	0.39 U	0.41 U	0.4 U	0.37 U	0.37 U
3,3'-Dichlorobenzidine	mg/kg	NC	NC	0.82 U	0.88 U	0.39 U	0.41 U	0.4 U	0.37 U	0.37 U
3-Nitroaniline	mg/kg	NC	NC	4.1 U	4.4 U	2 U	2.1 U	2 U	1.9 U	1.9 U
4,6-Dinitro-2-methylphenol	mg/kg	NC	NC	3.9 U	4.2 U	1.9 U	1.9 U	1.9 U	1.7 U	1.7 U
4-Bromophenyl phenyl ether	mg/kg	NC	NC	0.82 U	0.88 U	0.39 U	0.41 U	0.4 U	0.37 U	0.37 U
4-Chloro-3-methylphenol	mg/kg	NC	NC	0.82 U	0.88 U	0.39 U	0.41 U	0.4 U	0.37 U	0.37 U
4-Chloroaniline	mg/kg	NC	NC	0.82 U	0.88 U	0.39 U	0.41 U	0.4 U	0.37 U	0.37 U
4-Chlorophenyl phenyl ether	mg/kg	NC	NC	0.82 U	0.88 U	0.39 U	0.41 U	0.4 U	0.37 U	0.37 U
4-Methylphenol	mg/kg	34	1000	0.06 J	0.88 U	0.39 U	0.41 U	0.4 U	0.37 U	0.37 U
4-Nitroaniline	mg/kg	NC	NC	4.1 U	4.4 U	2 U	2.1 U	2 U	1.9 U	1.9 U
4-Nitrophenol	mg/kg	NC	NC	4.1 U	4.4 U	2 U	2.1 U	2 U	1.9 U	1.9 U
Acenaphthene	mg/kg	100	1000	0.25	0.47	0.08 U	0.084	0.081 U	0.041 J	0.096
Acenaphthylene	mg/kg	100	1000	0.062 J	0.12 J	0.08 U	0.065 J	0.081 U	0.075 U	0.074 U
Acetophenone	mg/kg	NC	NC	0.82 U	0.88 U	0.39 U	0.41 U	0.4 U	0.37 U	0.37 U
Anthracene	mg/kg	100	1000	0.53	1.2	0.08 U	0.23	0.081 U	0.089	0.22
Atrazine	mg/kg	NC	NC	0.82 UJ	0.88 UJ	0.39 UJ	0.41 UJ	0.4 UJ	0.37 U	0.37 UJ
Benzaldehyde	mg/kg	NC	NC	0.82 UJ	0.88 UJ	0.39 UJ	0.41 UJ	0.4 UJ	0.37 UJ	0.37 U
Benzo(a)anthracene	mg/kg	1	11	1.5	3	0.08 U	0.66	0.081 U	0.2	0.37
Benzo(a)pyrene	mg/kg	1	1.1	**1.4**	**2.7**	0.08 U	0.66	0.081 U	0.15	0.28
Benzo(b)fluoranthene	mg/kg	1	11	1.6	3.3	0.08 U	0.81	0.081 U	0.2	0.48
Benzo(g,h,i)perylene	mg/kg	100	1000	1	2	0.08 U	0.52	0.081 U	0.095	0.15
Benzo(k)fluoranthene	mg/kg	1	110	0.73	1.3	0.08 U	0.28	0.081 U	0.085	0.074 U
Biphenyl (1,1-Biphenyl)	mg/kg	NC	NC	0.82 U	0.88 U	0.39 U	0.41 U	0.4 U	0.37 U	0.37 U
bis(2-Chloroethoxy)methane	mg/kg	NC	NC	0.82 U	0.88 U	0.39 U	0.41 U	0.4 U	0.37 U	0.37 U
bis(2-Chloroethyl)ether	mg/kg	NC	NC	0.17 U	0.18 U	0.08 U	0.083 U	0.081 U	0.075 U	0.074 U
bis(2-Ethylhexyl)phthalate	mg/kg	NC	NC	0.26 J	0.88 U	0.081 J	0.41 U	0.1 J	0.098 J	0.37 U
Butyl benzylphthalate	mg/kg	NC	NC	0.82 U	0.12 J	0.39 U	0.036 J	0.4 U	0.37 U	0.37 U
Caprolactam	mg/kg	NC	NC	0.82 U	0.88 U	0.39 U	0.41 U	0.4 U	0.37 U	0.37 U
Carbazole	mg/kg	NC	NC	0.23	0.67	0.08 U	0.088	0.081 U	0.044 J	0.12
Chrysene	mg/kg	1	110	1.4	2.7	0.08 U	0.65	0.081 U	0.19	0.33
Dibenz(a,h)anthracene	mg/kg	0.33	1.1	0.23	0.46	0.08 U	0.12	0.081 U	0.075 U	0.074 U
Dibenzofuran	mg/kg	14	1000	0.23 J	0.36 J	0.39 U	0.072 J	0.4 U	0.04 J	0.1 J
Diethyl phthalate	mg/kg	NC	NC	0.82 U	0.88 U	0.39 U	0.41 U	0.4 U	0.37 U	0.37 U
Dimethyl phthalate	mg/kg	NC	NC	0.82 U	0.88 U	0.39 U	0.41 U	0.4 U	0.37 U	0.37 U
Di-n-butylphthalate	mg/kg	NC	NC	0.82 U	0.88 U	0.39 U	0.41 U	0.4 U	0.37 U	0.37 U
Di-n-octyl phthalate	mg/kg	NC	NC	0.82 U	0.88 U	0.39 U	0.41 U	0.4 U	0.37 U	0.37 U
Fluoranthene	mg/kg	100	1000	2.7	6.2	0.08 U	1.2	0.081 U	0.44	0.96

TABLE 6.5

SVOC ANALYTICAL RESULTS SUMMARY- SUBSURFACE
SOIL
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*SB-2-07*	*SB-2-07*	*SB-3-07*	*SB-4-07*	*SB-5-07*	*SB-6-07*	*SB-6-07*
Sample Name:				*SO-37191-072707-RN-SB-2*	*SO-37191-072707-RN-SB-20*	*SO-37191-072707-RN-SB-3*	*SO-37191-072707-RN-SB-4*	*SO-37191-072507-RN-SB-05*	*SO-37191-073007-CB-SB6*	*SO-37191-073007-CB-SB19*
Sample Date:				*7/27/2007*	*7/27/2007*	*7/27/2007*	*7/27/2007*	*7/25/2007*	*7/30/2007*	*7/30/2007*
Depth:				*6.5-8 ft BGS*	*6.5-8 ft BGS*	*10-13 ft BGS*	*2-4 ft BGS*	*4-8 ft BGS*	*6-10.4 ft BGS*	*6-10.4 ft BGS*
On/Off - Site				*On-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*	*On-Site*
					Duplicate				*Duplicate*	
		6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health[2]								
Parameters	*Units*[1]	*Residential*	*Industrial*							
Fluorene	mg/kg	100	1000	0.24	0.53	0.08 U	0.1	0.081 U	0.053 J	0.12
Hexachlorobenzene	mg/kg	0.33	12	0.17 U	0.18 U	0.08 U	0.083 U	0.081 U	0.075 U	0.074 U
Hexachlorobutadiene	mg/kg	NC	NC	0.17 U	0.18 U	0.08 U	0.083 U	0.081 U	0.075 U	0.074 U
Hexachlorocyclopentadiene	mg/kg	NC	NC	0.82 U	0.88 U	0.39 U	0.41 U	0.4 U	0.37 U	0.37 U
Hexachloroethane	mg/kg	NC	NC	0.82 U	0.88 U	0.39 U	0.41 U	0.4 U	0.37 U	0.37 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.5	11	0.94	1.8	0.08 U	0.45	0.081 U	0.079	0.12
Isophorone	mg/kg	NC	NC	0.82 U	0.88 U	0.39 U	0.41 U	0.4 U	0.37 U	0.37 U
Naphthalene	mg/kg	100	1000	0.16 J	0.29	0.08 U	0.086	0.081 U	0.037 J	0.11
Nitrobenzene	mg/kg	NC	NC	0.17 U	0.18 U	0.08 U	0.083 U	0.081 U	0.075 U	0.074 U
N-Nitrosodi-n-propylamine	mg/kg	NC	NC	0.17 U	0.18 U	0.08 U	0.083 U	0.081 U	0.075 U	0.074 U
N-Nitrosodiphenylamine	mg/kg	NC	NC	0.82 U	0.88 U	0.39 U	0.41 U	0.4 U	0.37 U	0.37 U
Pentachlorophenol	mg/kg	2.4	55	0.82 U	0.88 U	0.39 U	0.41 U	0.4 U	0.37 U	0.37 U
Phenanthrene	mg/kg	100	1000	2.1	5	0.08 U	0.79	0.081 U	0.44	0.97
Phenol	mg/kg	100	1000	0.17 U	0.18 U	0.08 U	0.083 U	0.081 U	0.075 U	0.074 U
Pyrene	mg/kg	100	1000	2.9	5.4	0.08 U	1.1	0.081 U	0.4	0.78

Notes:

[1] **-** Reported results were converted from ug/kg (ppb) to mg/kg (ppm) for ease of comparison to criteria.

[2] - Sample results from locations identified as on-Site are compared to the Restricted Use - Industrial SCO. Sample results identified as off-Site are compared to the Restricted Use - Residential SCO.

1.0 - Exceeds Criteria

U - Not present at the associated value.

J - Estimated concentration.

NC - No criteria.

TABLE 6.5

SVOC ANALYTICAL RESULTS SUMMARY- SUBSURFACE
SOIL
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				***SB-7-07***	***SB-8-07***	***SB-9-07***
Sample Name:				***SO-37191-072507-RN-SB-7***	***SO-37191-072507-RN-SB-8***	***SO-37191-072507-RN-SB-9***
Sample Date:				***7/25/2007***	***7/25/2007***	***7/25/2007***
Depth:				***3-6 ft BGS***	***3.5-8 ft BGS***	***3-6 ft BGS***
On/Off - Site				***On-Site***	***On-Site***	***On-Site***
		6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health[2]				
Parameters	***Units[1]***	***Residential***	***Industrial***			
Semivolatile Organic Compounds						
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/kg	NC	NC	0.21 U	0.082 U	0.082 U
2,4,5-Trichlorophenol	mg/kg	NC	NC	1.1 U	0.41 U	0.4 U
2,4,6-Trichlorophenol	mg/kg	NC	NC	1.1 U	0.41 U	0.4 U
2,4-Dichlorophenol	mg/kg	NC	NC	0.21 U	0.082 U	0.082 U
2,4-Dimethylphenol	mg/kg	NC	NC	0.1 J	0.41 U	0.4 U
2,4-Dinitrophenol	mg/kg	NC	NC	5.3 UJ	2.1 UJ	2 UJ
2,4-Dinitrotoluene	mg/kg	NC	NC	1.1 U	0.41 U	0.4 U
2,6-Dinitrotoluene	mg/kg	NC	NC	1.1 U	0.41 U	0.4 U
2-Chloronaphthalene	mg/kg	NC	NC	0.21 U	0.082 U	0.082 U
2-Chlorophenol	mg/kg	NC	NC	1.1 U	0.41 U	0.4 U
2-Methylnaphthalene	mg/kg	NC	NC	0.9	0.074 J	0.082 U
2-Methylphenol	mg/kg	100	1000	1.1 U	0.41 U	0.4 U
2-Nitroaniline	mg/kg	NC	NC	5.3 U	2.1 U	2 U
2-Nitrophenol	mg/kg	NC	NC	1.1 U	0.41 U	0.4 U
3,3'-Dichlorobenzidine	mg/kg	NC	NC	1.1 U	0.41 U	0.4 U
3-Nitroaniline	mg/kg	NC	NC	5.3 U	2.1 U	2 U
4,6-Dinitro-2-methylphenol	mg/kg	NC	NC	5 U	1.9 U	1.9 U
4-Bromophenyl phenyl ether	mg/kg	NC	NC	1.1 U	0.41 U	0.4 U
4-Chloro-3-methylphenol	mg/kg	NC	NC	1.1 U	0.41 U	0.4 U
4-Chloroaniline	mg/kg	NC	NC	1.1 U	0.41 U	0.4 U
4-Chlorophenyl phenyl ether	mg/kg	NC	NC	1.1 U	0.41 U	0.4 U
4-Methylphenol	mg/kg	34	1000	0.19 J	0.41 U	0.4 U
4-Nitroaniline	mg/kg	NC	NC	5.3 U	2.1 U	2 U
4-Nitrophenol	mg/kg	NC	NC	5.3 U	2.1 U	2 U
Acenaphthene	mg/kg	100	1000	0.69	0.032 J	0.082 U
Acenaphthylene	mg/kg	100	1000	4.5	0.029 J	0.082 U
Acetophenone	mg/kg	NC	NC	1.1 U	0.41 U	0.4 U
Anthracene	mg/kg	100	1000	6	0.29	0.082 U
Atrazine	mg/kg	NC	NC	1.1 UJ	0.41 UJ	0.4 UJ
Benzaldehyde	mg/kg	NC	NC	1.1 UJ	0.41 UJ	0.4 UJ
Benzo(a)anthracene	mg/kg	1	11	**15**	0.82	0.04 J
Benzo(a)pyrene	mg/kg	1	1.1	**14**	0.69	0.053 J
Benzo(b)fluoranthene	mg/kg	1	11	**17**	0.91	0.071 J
Benzo(g,h,i)perylene	mg/kg	100	1000	9.2	0.56	0.059 J
Benzo(k)fluoranthene	mg/kg	1	110	4.5	0.31	0.024 J
Biphenyl (1,1-Biphenyl)	mg/kg	NC	NC	0.22 J	0.41 U	0.4 U
bis(2-Chloroethoxy)methane	mg/kg	NC	NC	1.1 U	0.41 U	0.4 U
bis(2-Chloroethyl)ether	mg/kg	NC	NC	0.21 U	0.082 U	0.082 U
bis(2-Ethylhexyl)phthalate	mg/kg	NC	NC	1.1 U	0.41 U	0.082 J
Butyl benzylphthalate	mg/kg	NC	NC	1.1 U	0.41 U	0.4 U
Caprolactam	mg/kg	NC	NC	1.1 U	0.41 U	0.4 U
Carbazole	mg/kg	NC	NC	1.1	0.087	0.082 U
Chrysene	mg/kg	1	110	13	0.79	0.045 J
Dibenz(a,h)anthracene	mg/kg	0.33	1.1	**2.4**	0.14	0.082 U
Dibenzofuran	mg/kg	14	1000	1.6	0.043 J	0.4 U
Diethyl phthalate	mg/kg	NC	NC	0.29 J	0.41 U	0.4 U
Dimethyl phthalate	mg/kg	NC	NC	1.1 U	0.41 U	0.4 U
Di-n-butylphthalate	mg/kg	NC	NC	0.2 J	1	0.4 U
Di-n-octyl phthalate	mg/kg	NC	NC	1.1 U	0.41 U	0.4 U
Fluoranthene	mg/kg	100	1000	30	1.4	0.054 J

TABLE 6.5

SVOC ANALYTICAL RESULTS SUMMARY- SUBSURFACE
SOIL
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				***SB-7-07***	***SB-8-07***	***SB-9-07***
Sample Name:				***SO-37191-072507-RN-SB-7***	***SO-37191-072507-RN-SB-8***	***SO-37191-072507-RN-SB-9***
Sample Date:				***7/25/2007***	***7/25/2007***	***7/25/2007***
Depth:				***3-6 ft BGS***	***3.5-8 ft BGS***	***3-6 ft BGS***
On/Off - Site				***On-Site***	***On-Site***	***On-Site***
		6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health [2]				
Parameters	***Units*** [1]	***Residential***	***Industrial***			
Fluorene	mg/kg	100	1000	2.5	0.06 J	0.082 U
Hexachlorobenzene	mg/kg	0.33	12	0.21 U	0.082 U	0.082 U
Hexachlorobutadiene	mg/kg	NC	NC	0.21 U	0.082 U	0.082 U
Hexachlorocyclopentadiene	mg/kg	NC	NC	1.1 U	0.41 U	0.4 U
Hexachloroethane	mg/kg	NC	NC	1.1 U	0.41 U	0.4 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.5	11	8.5	0.48	0.049 J
Isophorone	mg/kg	NC	NC	1.1 U	0.41 U	0.4 U
Naphthalene	mg/kg	100	1000	1.4	0.05 J	0.082 U
Nitrobenzene	mg/kg	NC	NC	0.21 U	0.082 U	0.082 U
N-Nitrosodi-n-propylamine	mg/kg	NC	NC	0.21 U	0.082 U	0.082 U
N-Nitrosodiphenylamine	mg/kg	NC	NC	1.1 U	0.41 U	0.4 U
Pentachlorophenol	mg/kg	2.4	55	1.1 U	0.41 U	0.4 U
Phenanthrene	mg/kg	100	1000	20	0.93	0.032 J
Phenol	mg/kg	100	1000	0.21 U	0.082 U	0.082 U
Pyrene	mg/kg	100	1000	26	1.2	0.054 J

Notes:

[1] **-** Reported results were converted from ug/kg (ppb) to mg/kg (ppm) for ease of comparison to criteria.

[2] - Sample results from locations identified as on-Site are compared to the Restricted Use - Industrial SCO. Sample results identified as off-Site are compared to the Restricted Use - Residential SCO.

1.0 - Exceeds Criteria

U - Not present at the associated value.

J - Estimated concentration.

NC - No criteria.

TABLE 6.6

HERBICIDE, PCB, AND PESTICIDE ANALYTICAL RESULTS SUMMARY - OVERBURDEN GROUNDWATER
BCP REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*MW-4*	*MW-4*	*MW-4*	*MW-4*	*MW-9*	*MW-9*
Sample Name:				*WG-37191-082107-RN-001*	*WG-37191-082107-RN-002*	*WG-37191-052808-003*	*WG-37191-052808-004*	*WG-37191-082107-RN-007*	*WG-37191-052808-001*
Sample Date:				*8/21/2007*	*8/21/2007*	*5/28/2008*	*5/28/2008*	*8/21/2007*	*5/28/2008*
					Duplicate		*Duplicate*		
	Units	*New York State Water Quality Standards*	*Guidance Values*						
Herbicides									
2,4,5-T	ug/L	35	NC	0.95 U	1.1 U	0.95 U	0.95 U	0.96 U	0.94 U
2,4,5-TP (Silvex)	ug/L	0.26	NC	0.95 U	1.1 U	0.95 U	0.95 U	0.96 U	0.94 U
2,4-DB	ug/L	NC	NC	3.8 U	4.4 U	3.8 U	3.8 U	3.8 U	3.8 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	50	NC	3.8 U	4.4 U	3.8 U	3.8 U	3.8 U	3.8 U
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	ug/L	0.44	NC	380 U	440 U	380 UJ	380 UJ	380 U	380 UJ
Dalapon	ug/L	50	NC	4.8 U	5.6 U	4.8 U	4.8 U	4.8 U	4.7 U
Dicamba	ug/L	0.44	NC	1.9 U	2.2 U	1.9 U	1.9 U	1.9 U	1.9 U
Dichlorprop	ug/L	NC	NC	3.8 U	4.4 U	3.8 U	3.8 U	3.8 U	3.8 U
Dinoseb	ug/L	1	NC	0.86 U	1.0 U	0.86 U	0.86 U	0.86 U	0.85 U
Mecoprop (MCPP)	ug/L	NC	NC	380 U	440 U	380 UJ	380 UJ	380 U	380 UJ
PCBs									
Aroclor-1016 (PCB-1016)	ug/L	0.09[1]	NC	0.41 U	0.41 U	0.38 U	0.38 U	0.41 U	0.38 U
Aroclor-1221 (PCB-1221)	ug/L	0.09[1]	NC	0.41 U	0.41 U	0.38 U	0.38 U	0.41 U	0.38 U
Aroclor-1232 (PCB-1232)	ug/L	0.09[1]	NC	0.41 U	0.41 U	0.38 U	0.38 U	0.41 U	0.38 U
Aroclor-1242 (PCB-1242)	ug/L	0.09[1]	NC	0.41 U	0.41 U	0.38 U	0.38 U	0.41 U	0.38 U
Aroclor-1248 (PCB-1248)	ug/L	0.09[1]	NC	0.41 U	0.41 U	0.38 U	0.38 U	0.41 U	0.38 U
Aroclor-1254 (PCB-1254)	ug/L	0.09[1]	NC	0.41 U	0.41 U	0.38 U	0.38 U	0.41 U	0.38 U
Aroclor-1260 (PCB-1260)	ug/L	0.09[1]	NC	0.41 U	0.41 U	0.38 U	0.38 U	0.41 U	0.38 U
Pesticides									
4,4'-DDD	ug/L	0.3	NC	0.051 U	0.051 U	0.047 U	0.048 U	0.051 U	0.047 U
4,4'-DDE	ug/L	0.2	NC	0.051 U	0.051 U	0.047 U	0.048 U	0.051 U	0.047 U
4,4'-DDT	ug/L	0.2	NC	0.051 U	0.051 U	0.047 U	0.048 U	0.051 U	0.047 U
Aldrin	ug/L	NC	NC	0.051 U	0.051 U	0.047 U	0.048 U	0.051 U	0.047 U
alpha-BHC	ug/L	0.01	NC	**0.021 J**	0.051 U	0.047 U	0.048 U	0.051 U	0.047 U
alpha-Chlordane	ug/L	NC	NC	0.051 U	0.051 U	0.047 U	0.048 U	0.051 U	0.047 U
beta-BHC	ug/L	0.04	NC	0.051 U	0.051 U	0.047 U	0.048 U	0.051 U	0.047 U
delta-BHC	ug/L	0.04	NC	0.051 U	0.051 U	0.047 U	0.048 U	0.081 U	0.047 U
Dieldrin	ug/L	0.004	NC	0.051 U	0.051 U	0.047 U	0.048 U	0.051 U	0.047 U
Endosulfan I	ug/L	NC	NC	0.051 U	0.051 U	0.047 U	0.048 U	0.051 U	0.047 U
Endosulfan II	ug/L	NC	NC	0.051 U	0.051 U	0.047 U	0.048 U	0.051 U	0.047 U
Endosulfan sulfate	ug/L	NC	NC	0.051 U	0.051 U	0.047 U	0.048 U	0.024 J	0.047 U
Endrin	ug/L	NC	NC	0.051 U	0.051 U	0.047 U	0.048 U	0.011 J	0.047 U
Endrin aldehyde	ug/L	5	NC	0.051 U	0.051 U	0.047 U	0.048 U	0.051 U	0.047 U
Endrin ketone	ug/L	5	NC	0.051 U	0.051 U	0.047 U	0.048 U	0.051 U	0.047 U
gamma-BHC (Lindane)	ug/L	0.05	NC	0.051 U	0.051 U	0.047 U	0.048 U	0.051 U	0.047 U
gamma-Chlordane	ug/L	NC	NC	0.051 U	0.051 U	0.047 U	0.048 U	0.051 U	0.047 U
Heptachlor	ug/L	0.04	NC	0.051 U	0.051 U	0.047 U	0.048 U	0.051 U	0.047 U
Heptachlor epoxide	ug/L	0.03	NC	0.051 U	0.051 U	0.047 U	0.048 U	0.051 U	0.047 U
Methoxychlor	ug/L	35	NC	0.10 U	0.10 U	0.094 U	0.095 U	0.10 U	0.094 U
Toxaphene	ug/L	0.06	NC	2.0 U	2.0 U	1.9 U	1.9 U	2.0 U	1.9 U

[1] - The standard applies to the sum of the substances
1.0 - Exceeds Criteria

U - Not present at the associated value.
J - Estimated concentration.
NC - No criteria.

TABLE 6.7

METALS ANALYTICAL RESULTS SUMMARY - OVERBURDEN GROUNDWATER
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*MW-4*	*MW-4*	*MW-4*	*MW-4*	*MW-5*	*MW-5*	*MW-6*	*MW-8*
Sample Name:				*WG-37191-082107-RN-001*	*WG-37191-082107-RN-002*	*WG-37191-052808-003*	*WG-37191-052808-004*	*WG-37191-082107-RN-003*	*WG-37191-052808-008*	*WG-37191-052808-002*	*WG-37191-082107-RN-006*
Sample Date:				*8/21/2007*	*8/21/2007*	*5/28/2008*	*5/28/2008*	*8/21/2007*	*5/28/2008*	*5/28/2008*	*8/21/2007*
					Duplicate		*Duplicate*				
		New York State Water Quality									
	Units	*Standards*	*Guidance Values*								
Metals											
Aluminum	ug/L	NC	NC	5110 J	4190 J	116 J	102 J	--	--	--	--
Antimony	ug/L	3	NC	**3.9 J**	**5.0 J**	10.0 U	10.0 U	--	--	--	--
Arsenic	ug/L	25	NC	4.7 J	4.1 J	10.0 U	10.0 U	--	--	--	--
Barium	ug/L	1000	NC	110 J	86.6 J	39.5 J	38.2 J	--	--	--	--
Beryllium	ug/L	NC	3	4.0 U	4.0 U	4.0 U	4.0 U	--	--	--	--
Cadmium	ug/L	5	NC	5.0 U	5.0 U	5.0 U	5.0 U	--	--	--	--
Calcium	ug/L	NC	NC	172000	165000	136000	140000	--	--	--	--
Chromium	ug/L	50	NC	13.6	10.2	5.0 U	5.0 U	--	--	--	--
Cobalt	ug/L	NC	NC	4.4 J	3.3 J	1.1 J	0.93 J	--	--	--	--
Copper	ug/L	200	NC	13.8 J	10.2 J	25.0 U	25.0 U	--	--	--	--
Iron	ug/L	300	NC	**6350**	**4850**	**653 J**	**504 J**	--	--	--	--
Lead	ug/L	25	NC	**56.8 J**	**30.0 J**	2.7 J	2.8 J	13.8	3.2	3.0 U	**33.6**
Magnesium	ug/L	NC	35000	**46300**	**44000**	**37400**	**38100**	--	--	--	--
Manganese	ug/L	300	NC	**915**	**860**	**858**	**864**	--	--	--	--
Mercury	ug/L	0.7	NC	0.097 J	0.20 U	0.20 U	0.20 U	--	--	--	--
Nickel	ug/L	100	NC	10.7 J	8.1 J	2.2 J	2.0 J	--	--	--	--
Potassium	ug/L	NC	NC	2470 J	2260 J	675 J	711 J	--	--	--	--
Selenium	ug/L	10	NC	2.6 J	5.0 U	5.0 U	5.0 U	--	--	--	--
Silver	ug/L	50	NC	2.1 J	1.2 J	5.0 U	5.0 U	--	--	--	--
Sodium	ug/L	20000	NC	**168000**	**173000**	**133000**	**145000**	--	--	--	--
Thallium	ug/L	NC	0.5	**3.2 J**	**5.0 J**	10.0 U	10.0 U	--	--	--	--
Vanadium	ug/L	NC	NC	18.8 J	21.6 J	1.3 J	50.0 U	--	--	--	--
Zinc	ug/L	NC	2000	67.4	40.9 U	20.0 U	20.0 U	--	--	--	--
Metals (Dissolved)											
Aluminum (Dissolved)	ug/L	NC	NC	200 U	200 U	200 U	200 U	--	--	--	--
Antimony (Dissolved)	ug/L	3	NC	10.0 U	10.0 U	10.0 U	10.0 U	--	--	--	--
Arsenic (Dissolved)	ug/L	25	NC	10.0 U	10.0 U	10.0 U	10.0 U	--	--	--	--
Barium (Dissolved)	ug/L	1000	NC	40.4 J	43.1 J	34.5 J	33.4 J	--	--	--	--
Beryllium (Dissolved)	ug/L	NC	3	4.0 U	4.0 U	4.0 U	4.0 U	--	--	--	--
Cadmium (Dissolved)	ug/L	5	NC	5.0 U	5.0 U	5.0 U	5.0 U	--	--	--	--
Calcium (Dissolved)	ug/L	NC	NC	135000	144000	134000	133000	--	--	--	--
Chromium Total (Dissolved)	ug/L	50	NC	5.0 U	5.0 U	5.0 U	5.0 U	--	--	--	--
Cobalt (Dissolved)	ug/L	NC	NC	50.0 U	50.0 U	1.2 J	0.87 J	--	--	--	--
Copper (Dissolved)	ug/L	200	NC	25.0 U	25.0 U	25.0 U	25.0 U	--	--	--	--
Iron (Dissolved)	ug/L	300	NC	100 U	100 U	218	207	--	--	--	--
Lead (Dissolved)	ug/L	25	NC	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Magnesium (Dissolved)	ug/L	NC	35000	**36000**	**38300**	**36700**	**36600**	--	--	--	--
Manganese (Dissolved)	ug/L	300	NC	**714**	**761**	**799**	**786**	--	--	--	--
Mercury (Dissolved)	ug/L	0.7	NC	0.062 J	0.20 U	0.20 U	0.20 U	--	--	--	--
Nickel (Dissolved)	ug/L	100	NC	1.4 J	1.2 J	2.1 J	1.9 J	--	--	--	--
Potassium (Dissolved)	ug/L	NC	NC	1290 J	1390 J	689 J	687 J	--	--	--	--
Selenium (Dissolved)	ug/L	10	NC	5.0 U	5.0 U	5.0 U	5.0 U	--	--	--	--
Silver (Dissolved)	ug/L	50	NC	5.0 U	5.0 U	5.0 U	5.0 U	--	--	--	--
Sodium (Dissolved)	ug/L	20000	NC	**193000**	**192000**	**138000**	**144000**	--	--	--	--
Thallium (Dissolved)	ug/L	NC	0.5	10.0 U	10.0 U	10.0 U	10.0 U	--	--	--	--
Vanadium (Dissolved)	ug/L	NC	NC	11.8 J	10.7 J	1.6 J	2.2 J	--	--	--	--
Zinc (Dissolved)	ug/L	NC	2000	20.0 U	20.0 U	20.0 U	20.0 U	--	--	--	--
Wet Chemistry											
Cyanide (total)	ug/L	200	NC	10.0 U	6.4 J	3.4 J	2.9 J	--	--	--	--

Notes:
1.0 - Exceeds Criteria

U - Not present at the associated value.
J - Estimated concentration.
NC - No criteria.

TABLE 6.7

METALS ANALYTICAL RESULTS SUMMARY - OVERBURDEN GROUNDWATER
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*MW-8*	*MW-9*	*MW-9*	*MW-10*	*MW-11*	*MW-12*	*MW-12*	*MW-12*
Sample Name:				*WG-37191-052808-005*	*WG-37191-082107-RN-007*	*WG-37191-052808-001*	*WG-37191-091908-002*	*WG-37191-091908-001*	*WG-37191-082107-RN-004*	*WG-37191-082107-RN-005*	*WG-37191-052808-006*
Sample Date:				*5/28/2008*	*8/21/2007*	*5/28/2008*	*9/19/2008*	*9/19/2008*	*8/21/2007*	*8/21/2007* *Duplicate*	*5/28/2008*
	Units	*New York State Water Quality Standards*	*Guidance Values*								
Metals											
Aluminum	ug/L	NC	NC	--	8250 J	200 U	--	--	--	--	--
Antimony	ug/L	3	NC	--	**7.5 J**	10.0 U	--	--	--	--	--
Arsenic	ug/L	25	NC	--	9.4 J	10.0 U	--	--	--	--	--
Barium	ug/L	1000	NC	--	90.2 J	29.1 J	--	--	--	--	--
Beryllium	ug/L	NC	3	--	4.0 U	4.0 U	--	--	--	--	--
Cadmium	ug/L	5	NC	--	5.0 U	5.0 U	--	--	--	--	--
Calcium	ug/L	NC	NC	--	301000	217000	--	--	--	--	--
Chromium	ug/L	50	NC	--	14.5	5.0 U	--	--	--	--	--
Cobalt	ug/L	NC	NC	--	6.5 J	3.4 J	--	--	--	--	--
Copper	ug/L	200	NC	--	24.6 J	25.0 U	--	--	--	--	--
Iron	ug/L	300	NC	--	**14300**	**1620 J**	--	--	--	--	--
Lead	ug/L	25	NC	3.0 U	**28.7**	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Magnesium	ug/L	NC	35000	--	**58500**	**36400**	--	--	--	--	--
Manganese	ug/L	300	NC	--	**472**	**317**	--	--	--	--	--
Mercury	ug/L	0.7	NC	--	0.088 J	0.20 U	--	--	--	--	--
Nickel	ug/L	100	NC	--	18.5 J	5.4 J	--	--	--	--	--
Potassium	ug/L	NC	NC	--	10600	7090	--	--	--	--	--
Selenium	ug/L	10	NC	--	5.0 U	5.0 U	--	--	--	--	--
Silver	ug/L	50	NC	--	1.3 J	5.0 U	--	--	--	--	--
Sodium	ug/L	20000	NC	--	**44700**	**32700**	--	--	--	--	--
Thallium	ug/L	NC	0.5	--	10.0 U	**3.7 J**	--	--	--	--	--
Vanadium	ug/L	NC	NC	--	17.9 J	1.1 J	--	--	--	--	--
Zinc	ug/L	NC	2000	--	93.3	20.0 U	--	--	--	--	--
Metals (Dissolved)											
Aluminum (Dissolved)	ug/L	NC	NC	--	200 U	200 U	--	--	--	--	--
Antimony (Dissolved)	ug/L	3	NC	--	**3.3 J**	10.0 U	--	--	--	--	--
Arsenic (Dissolved)	ug/L	25	NC	--	10.0 U	10.0 U	--	--	--	--	--
Barium (Dissolved)	ug/L	1000	NC	--	35.8 J	28.3 J	--	--	--	--	--
Beryllium (Dissolved)	ug/L	NC	3	--	4.0 U	4.0 U	--	--	--	--	--
Cadmium (Dissolved)	ug/L	5	NC	--	5.0 U	5.0 U	--	--	--	--	--
Calcium (Dissolved)	ug/L	NC	NC	--	249000	224000	--	--	--	--	--
Chromium Total (Dissolved)	ug/L	50	NC	--	5.0 U	5.0 U	--	--	--	--	--
Cobalt (Dissolved)	ug/L	NC	NC	--	50.0 U	3.2 J	--	--	--	--	--
Copper (Dissolved)	ug/L	200	NC	--	25.0 U	25.0 U	--	--	--	--	--
Iron (Dissolved)	ug/L	300	NC	--	100 U	**620**	--	--	--	--	--
Lead (Dissolved)	ug/L	25	NC	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Magnesium (Dissolved)	ug/L	NC	35000	--	**44700**	**38000**	--	--	--	--	--
Manganese (Dissolved)	ug/L	300	NC	--	221	296	--	--	--	--	--
Mercury (Dissolved)	ug/L	0.7	NC	--	0.067 J	0.20 U	--	--	--	--	--
Nickel (Dissolved)	ug/L	100	NC	--	4.5 J	5.6 J	--	--	--	--	--
Potassium (Dissolved)	ug/L	NC	NC	--	7610	7150	--	--	--	--	--
Selenium (Dissolved)	ug/L	10	NC	--	5.0 U	5.0 U	--	--	--	--	--
Silver (Dissolved)	ug/L	50	NC	--	5.0 U	5.0 U	--	--	--	--	--
Sodium (Dissolved)	ug/L	20000	NC	--	**43200**	**34300**	--	--	--	--	--
Thallium (Dissolved)	ug/L	NC	0.5	--	10.0 U	10.0 U	--	--	--	--	--
Vanadium (Dissolved)	ug/L	NC	NC	--	1.3 J	2.6 J	--	--	--	--	--
Zinc (Dissolved)	ug/L	NC	2000	--	20.0 U	20.0 U	--	--	--	--	--
Wet Chemistry											
Cyanide (total)	ug/L	200	NC	--	2.4 J	2.6 J	--	--	--	--	--

Notes:
1.0 - Exceeds Criteria

U - Not present at the associated value.
J - Estimated concentration.
NC - No criteria.

TABLE 6.7

METALS ANALYTICAL RESULTS SUMMARY - OVERBURDEN GROUNDWATER
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*MW-12*	*MW-17*
Sample Name:				*WG-37191-052808-007*	*WG-37191-052808-009*
Sample Date:				*5/28/2008*	*5/28/2008*
				Duplicate	
		New York State Water Quality			
	Units	*Standards*	*Guidance Values*		
Metals					
Aluminum	ug/L	NC	NC	--	--
Antimony	ug/L	3	NC	--	--
Arsenic	ug/L	25	NC	--	--
Barium	ug/L	1000	NC	--	--
Beryllium	ug/L	NC	3	--	--
Cadmium	ug/L	5	NC	--	--
Calcium	ug/L	NC	NC	--	--
Chromium	ug/L	50	NC	--	--
Cobalt	ug/L	NC	NC	--	--
Copper	ug/L	200	NC	--	--
Iron	ug/L	300	NC	--	--
Lead	ug/L	25	NC	3.0 U	3.0 U
Magnesium	ug/L	NC	35000	--	--
Manganese	ug/L	300	NC	--	--
Mercury	ug/L	0.7	NC	--	--
Nickel	ug/L	100	NC	--	--
Potassium	ug/L	NC	NC	--	--
Selenium	ug/L	10	NC	--	--
Silver	ug/L	50	NC	--	--
Sodium	ug/L	20000	NC	--	--
Thallium	ug/L	NC	0.5	--	--
Vanadium	ug/L	NC	NC	--	--
Zinc	ug/L	NC	2000	--	--
Metals (Dissolved)					
Aluminum (Dissolved)	ug/L	NC	NC	--	--
Antimony (Dissolved)	ug/L	3	NC	--	--
Arsenic (Dissolved)	ug/L	25	NC	--	--
Barium (Dissolved)	ug/L	1000	NC	--	--
Beryllium (Dissolved)	ug/L	NC	3	--	--
Cadmium (Dissolved)	ug/L	5	NC	--	--
Calcium (Dissolved)	ug/L	NC	NC	--	--
Chromium Total (Dissolved)	ug/L	50	NC	--	--
Cobalt (Dissolved)	ug/L	NC	NC	--	--
Copper (Dissolved)	ug/L	200	NC	--	--
Iron (Dissolved)	ug/L	300	NC	--	--
Lead (Dissolved)	ug/L	25	NC	3.0 U	3.0 U
Magnesium (Dissolved)	ug/L	NC	35000	--	--
Manganese (Dissolved)	ug/L	300	NC	--	--
Mercury (Dissolved)	ug/L	0.7	NC	--	--
Nickel (Dissolved)	ug/L	100	NC	--	--
Potassium (Dissolved)	ug/L	NC	NC	--	--
Selenium (Dissolved)	ug/L	10	NC	--	--
Silver (Dissolved)	ug/L	50	NC	--	--
Sodium (Dissolved)	ug/L	20000	NC	--	--
Thallium (Dissolved)	ug/L	NC	0.5	--	--
Vanadium (Dissolved)	ug/L	NC	NC	--	--
Zinc (Dissolved)	ug/L	NC	2000	--	--
Wet Chemistry					
Cyanide (total)	ug/L	200	NC	--	--

Notes:
1.0 - Exceeds Criteria

U - Not present at the associated value.
J - Estimated concentration.
NC - No criteria.

TABLE 6.8

VOC ANALYTICAL RESULTS SUMMARY - OVERBURDEN GROUNDWATER
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*MW-4*	*MW-4*	*MW-4*	*MW-4*	*MW-4*	*MW-4*
Sample Name:				*WG-37191-082107-RN-001*	*WG-37191-082107-RN-002*	*WG-37191-052808-003*	*WG-37191-052808-004*	*GW-37191-011309-JJW-002*	*WG-37191-072209-037*
Sample Date:				*8/21/2007*	*8/21/2007*	*5/28/2008*	*5/28/2008*	*1/13/2009*	*7/22/2009*
					Duplicate		*Duplicate*		
		New York State Water Quality							
	Units	*Standards*	*Guidance Values*						
Volatile Organic Compounds									
1,1,1-Trichloroethane	ug/L	5	NC	150 U	100 U	71 U	71 U	100 U	120 U
1,1,2,2-Tetrachloroethane	ug/L	5	NC	150 U	100 U	71 U	71 U	100 U	120 UJ
1,1,2-Trichloroethane	ug/L	1	NC	150 U	100 U	71 U	71 U	100 U	120 U
1,1-Dichloroethane	ug/L	5	NC	150 U	100 U	71 U	71 U	100 U	120 U
1,1-Dichloroethene	ug/L	5	NC	150 U	100 U	71 U	71 U	100 U	120 U
1,2,4-Trichlorobenzene	ug/L	5	NC	150 U	100 U	71 U	71 U	100 U	120 UJ
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.04	NC	150 U	100 U	71 U	71 U	100 UJ	120 UJ
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	0.0006	NC	150 U	100 U	71 U	71 U	100 U	120 U
1,2-Dichlorobenzene	ug/L	3	NC	150 U	100 U	71 U	71 U	100 U	120 U
1,2-Dichloroethane	ug/L	0.6	NC	150 U	100 U	71 U	71 U	100 U	120 U
1,2-Dichloropropane	ug/L	1	NC	150 U	100 U	71 U	71 U	100 U	120 U
1,3-Dichlorobenzene	ug/L	3	NC	150 U	100 U	71 U	71 U	100 U	120 U
1,4-Dichlorobenzene	ug/L	3	NC	150 U	100 U	71 U	71 U	100 U	120 U
2-Butanone (Methyl Ethyl Ketone)	ug/L	NC	50	150 U	100 U	71 U	71 U	100 UJ	120 U
2-Hexanone	ug/L	NC	50	150 U	100 U	71 U	71 U	100 UJ	120 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	NC	NC	150 U	100 U	71 U	71 U	100 UJ	120 U
Acetone	ug/L	NC	50	600 UJ	400 U	290 U	290 U	400 U	500 U
Benzene	ug/L	1	NC	150 U	100 U	71 U	71 U	100 U	120 U
Bromodichloromethane	ug/L	NC	50	150 U	100 U	71 U	71 U	100 U	120 U
Bromoform	ug/L	NC	50	150 U	100 U	71 U	71 U	100 U	120 U
Bromomethane (Methyl Bromide)	ug/L	5	NC	150 U	100 U	71 U	71 U	100 UJ	120 U
Carbon disulfide	ug/L	60	60	150 U	100 U	71 U	71 U	100 U	120 U
Carbon tetrachloride	ug/L	5	NC	150 U	100 U	71 U	71 U	100 U	120 U
Chlorobenzene	ug/L	5	NC	150 U	100 U	71 U	71 U	100 U	120 U
Chloroethane	ug/L	5	NC	150 U	100 UJ	71 U	71 U	100 U	120 U
Chloroform (Trichloromethane)	ug/L	7	NC	150 U	100 U	71 U	71 U	100 U	120 U
Chloromethane (Methyl Chloride)	ug/L	5	NC	150 U	100 U	71 U	71 U	100 U	120 U
cis-1,2-Dichloroethene	ug/L	5	NC	**2200 J**	**1100 J**	**1200**	**1300**	**1300**	**1600**
cis-1,3-Dichloropropene	ug/L	NC	NC	150 U	100 U	71 U	71 U	100 U	120 U
Cyclohexane	ug/L	NC	NC	150 U	100 U	71 U	71 U	100 U	120 U
Dibromochloromethane	ug/L	NC	50	150 U	100 U	71 U	71 U	100 U	120 U
Dichlorodifluoromethane (CFC-12)	ug/L	5	NC	150 UJ	100 U	71 U	71 U	100 U	120 U
Ethylbenzene	ug/L	5	NC	150 U	100 U	71 U	71 U	100 U	120 U
Isopropylbenzene	ug/L	5	NC	150 U	100 U	71 U	71 U	100 U	120 U
Methyl acetate	ug/L	NC	NC	150 U	100 U	71 U	71 U	100 U	120 UJ
Methyl cyclohexane	ug/L	NC	NC	150 U	100 U	71 U	71 U	100 U	120 U
Methyl Tert Butyl Ether	ug/L	NC	10	150 U	100 U	71 U	71 U	100 U	120 U
Methylene chloride	ug/L	5	NC	150 U	100 U	71 U	71 U	100 U	120 U
Styrene	ug/L	5	NC	150 U	100 U	71 U	71 U	100 U	120 U
Tetrachloroethene	ug/L	5	NC	150 U	100 U	71 U	71 U	100 U	120 U
Toluene	ug/L	5	NC	150 U	100 U	71 U	71 U	100 U	120 U
trans-1,2-Dichloroethene	ug/L	5	NC	**87 J**	**34 J**	**27 J**	**29 J**	**22 J**	**29 J**
trans-1,3-Dichloropropene	ug/L	NC	NC	150 U	100 U	71 U	71 U	100 U	120 U
Trichloroethene	ug/L	5	NC	**2000 J**	**1000 J**	**2200**	**2200**	**1500**	**2200**
Trichlorofluoromethane (CFC-11)	ug/L	5	NC	150 U	100 U	71 U	71 U	100 UJ	120 U
Trifluorotrichloroethane (Freon 113)	ug/L	5	NC	150 UJ	100 UJ	71 U	71 U	100 U	120 U
Vinyl chloride	ug/L	2	NC	**31 J**	100 U	**17 J**	71 U	100 U	120 U
Xylene (total)	ug/L	NC	NC	450 U	300 U	210 U	210 U	300 U	380 U

TABLE 6.8

VOC ANALYTICAL RESULTS SUMMARY - OVERBURDEN GROUNDWATER
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*MW-4*	*MW-4*	*MW-4*	*MW-4*	*MW-4*	*MW-4*
Sample Name:				*WG-37191-082107-RN-001*	*WG-37191-082107-RN-002*	*WG-37191-052808-003*	*WG-37191-052808-004*	*GW-37191-011309-JJW-002*	*WG-37191-072209-037*
Sample Date:				*8/21/2007*	*8/21/2007*	*5/28/2008*	*5/28/2008*	*1/13/2009*	*7/22/2009*
					Duplicate		*Duplicate*		
	Units	*New York State Water Quality Standards*	*Guidance Values*						
Field Parameters									
Conductivity	mS/cm	NC	NC	4.23	--	54.4	--	0.354	1.495
Dissolved Oxygen	ug/L	NC	NC	--	--	4320	--	810	1450
Oxidation reduction potential	millivolts	NC	NC	--	--	8	--	--	-64
Temperature, Field	Deg C	NC	NC	14.8	--	--	--	8	18.35
Turbidity	NTU	5	NC	**736**	--	**218**	--	**14.7**	**20.9**
pH	pH units	6.5-8.5	NC	7.07	--	**6.48**	--	6.9	6.87

[1] - Reported results were converted from ug/kg (ppb) to mg/kg (ppm) for ease of comparison to criteria.
Sample results identified as off-Site are compared to the Restricted Use - Residential SCO.
considered to be met if the analysis for the total species of this contaminant is below the specific SCO. The most

1.0 - Exceeds Criteria

U - Not present at the associated value.
J - Estimated concentration.
NC - No criteria.

TABLE 6.8

VOC ANALYTICAL RESULTS SUMMARY - OVERBURDEN GROUNDWATER
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*MW-5*	*MW-5*	*MW-5*	*MW-5*	*MW-6*	*MW-6*
Sample Name:				*WG-37191-082107-RN-003*	*WG-37191-052808-008*	*GW-37191-012009-JJW-011*	*WG-37191-072209-040*	*WG-37191-052808-002*	*GW-37191-012009-JJW-009*
Sample Date:				*8/21/2007*	*5/28/2008*	*1/20/2009*	*7/22/2009*	*5/28/2008*	*1/20/2009*
		New York State Water Quality							
	Units	*Standards*	*Guidance Values*						
Volatile Organic Compounds									
1,1,1-Trichloroethane	ug/L	5	NC	12000 U	12000 U	25000 U	20000 U	59 U	50 U
1,1,2,2-Tetrachloroethane	ug/L	5	NC	12000 U	12000 U	25000 U	20000 U	59 U	50 U
1,1,2-Trichloroethane	ug/L	1	NC	**9800 J**	12000 U	25000 U	20000 U	59 U	50 U
1,1-Dichloroethane	ug/L	5	NC	12000 U	12000 U	25000 U	20000 U	59 U	50 U
1,1-Dichloroethene	ug/L	5	NC	12000 U	12000 U	25000 U	20000 U	59 U	50 U
1,2,4-Trichlorobenzene	ug/L	5	NC	12000 U	12000 U	25000 U	20000 U	**15 J**	50 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.04	NC	12000 U	12000 U	25000 U	20000 U	59 U	50 UJ
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	0.0006	NC	12000 U	12000 U	25000 U	20000 U	59 U	50 U
1,2-Dichlorobenzene	ug/L	3	NC	12000 U	12000 U	25000 U	20000 U	59 U	50 U
1,2-Dichloroethane	ug/L	0.6	NC	12000 U	12000 U	25000 U	20000 U	59 U	50 U
1,2-Dichloropropane	ug/L	1	NC	12000 U	12000 U	25000 U	20000 U	59 U	50 U
1,3-Dichlorobenzene	ug/L	3	NC	12000 U	12000 U	25000 U	20000 U	59 U	50 U
1,4-Dichlorobenzene	ug/L	3	NC	12000 U	12000 U	25000 U	20000 U	59 U	50 U
2-Butanone (Methyl Ethyl Ketone)	ug/L	NC	50	12000 U	12000 U	25000 U	20000 U	59 U	50 UJ
2-Hexanone	ug/L	NC	50	12000 U	12000 U	25000 U	20000 U	59 U	50 UJ
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	NC	NC	12000 U	12000 U	25000 U	20000 U	59 U	50 UJ
Acetone	ug/L	NC	50	50000 U	50000 U	100000 U	80000 U	240 U	200 U
Benzene	ug/L	1	NC	12000 U	12000 U	25000 U	20000 U	59 U	50 U
Bromodichloromethane	ug/L	NC	50	12000 U	12000 U	25000 U	20000 U	59 U	50 U
Bromoform	ug/L	NC	50	12000 U	12000 U	25000 U	20000 U	59 U	50 U
Bromomethane (Methyl Bromide)	ug/L	5	NC	12000 U	12000 U	25000 UJ	20000 U	59 U	50 UJ
Carbon disulfide	ug/L	60	60	12000 U	12000 U	25000 U	20000 U	59 U	50 U
Carbon tetrachloride	ug/L	5	NC	12000 U	12000 U	25000 U	20000 U	59 U	50 U
Chlorobenzene	ug/L	5	NC	12000 U	12000 U	25000 U	20000 U	59 U	50 U
Chloroethane	ug/L	5	NC	12000 UJ	12000 U	25000 UJ	20000 U	59 U	50 UJ
Chloroform (Trichloromethane)	ug/L	7	NC	12000 U	12000 U	25000 U	20000 U	59 U	50 U
Chloromethane (Methyl Chloride)	ug/L	5	NC	12000 U	12000 U	25000 U	20000 U	59 U	50 U
cis-1,2-Dichloroethene	ug/L	5	NC	**240000**	**150000**	**320000**	**310000**	**1600**	**1300**
cis-1,3-Dichloropropene	ug/L	NC	NC	12000 U	12000 U	25000 U	20000 U	59 U	50 U
Cyclohexane	ug/L	NC	NC	12000 U	12000 U	25000 U	20000 U	59 U	50 U
Dibromochloromethane	ug/L	NC	50	12000 U	12000 U	25000 U	20000 U	59 U	50 U
Dichlorodifluoromethane (CFC-12)	ug/L	5	NC	12000 U	12000 U	25000 U	20000 U	59 U	50 U
Ethylbenzene	ug/L	5	NC	12000 U	12000 U	25000 U	20000 U	59 U	50 U
Isopropylbenzene	ug/L	5	NC	12000 U	12000 U	25000 U	20000 U	59 U	50 U
Methyl acetate	ug/L	NC	NC	12000 U	12000 U	25000 U	20000 U	59 U	50 U
Methyl cyclohexane	ug/L	NC	NC	12000 U	12000 U	25000 U	20000 U	59 U	50 U
Methyl Tert Butyl Ether	ug/L	NC	10	12000 U	12000 U	25000 U	20000 U	59 U	50 U
Methylene chloride	ug/L	5	NC	12000 U	12000 U	25000 U	20000 U	59 U	50 U
Styrene	ug/L	5	NC	12000 U	12000 U	25000 U	20000 U	59 U	50 U
Tetrachloroethene	ug/L	5	NC	12000 U	12000 U	25000 U	20000 U	**13 J**	50 U
Toluene	ug/L	5	NC	12000 U	12000 U	25000 U	**96000**	59 U	50 U
trans-1,2-Dichloroethene	ug/L	5	NC	12000 U	12000 U	25000 U	20000 U	**11 J**	**8.3 J**
trans-1,3-Dichloropropene	ug/L	NC	NC	12000 U	12000 U	25000 U	20000 U	59 U	50 U
Trichloroethene	ug/L	5	NC	**550000**	**310000**	**560000**	**410000**	**630**	**450 J**
Trichlorofluoromethane (CFC-11)	ug/L	5	NC	12000 UJ	12000 U	25000 U	20000 U	59 U	50 U
Trifluorotrichloroethane (Freon 113)	ug/L	5	NC	12000 U	12000 U	25000 U	20000 U	59 U	50 U
Vinyl chloride	ug/L	2	NC	12000 U	12000 U	25000 U	20000 U	**24 J**	**15 J**
Xylene (total)	ug/L	NC	NC	38000 U	38000 U	75000 U	17000 J	180 U	150 U

TABLE 6.8

VOC ANALYTICAL RESULTS SUMMARY - OVERBURDEN GROUNDWATER
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*MW-5*	*MW-5*	*MW-5*	*MW-5*	*MW-6*	*MW-6*
Sample Name:				*WG-37191-082107-RN-003*	*WG-37191-052808-008*	*GW-37191-012009-JJW-011*	*WG-37191-072209-040*	*WG-37191-052808-002*	*GW-37191-012009-JJW-009*
Sample Date:				*8/21/2007*	*5/28/2008*	*1/20/2009*	*7/22/2009*	*5/28/2008*	*1/20/2009*
		New York State Water Quality							
	Units	*Standards*	*Guidance Values*						
Field Parameters									
Conductivity	mS/cm	NC	NC	2.53	1.7	1.08	1.9	31.2	0.87
Dissolved Oxygen	ug/L	NC	NC	--	2700	480	560	4500	4000
Oxidation reduction potential	millivolts	NC	NC	--	195	--	-43	22	--
Temperature, Field	Deg C	NC	NC	14.7	14	6.3	18.82	--	6
Turbidity	NTU	5	NC	**1000 >**	**61.3**	**28**	2.83	1.4	**23.2**
pH	pH units	6.5-8.5	NC	7.14	6.57	6.7	7.39	**6.43**	7.06

[1] - Reported results were converted from ug/kg (ppb) to mg/kg (ppm) for ease of comparison to criteria.
Sample results identified as off-Site are compared to the Restricted Use - Residential SCO.
considered to be met if the analysis for the total species of this contaminant is below the specific SCO. The most

1.0 - Exceeds Criteria

U - Not present at the associated value.
J - Estimated concentration.
NC - No criteria.

TABLE 6.8

VOC ANALYTICAL RESULTS SUMMARY - OVERBURDEN GROUNDWATER
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*MW-6*	*MW-7*	*MW-7*	*MW-8*	*MW-8*	*MW-8*
Sample Name:				*WG-37191-072209-035*	*GW-37191-012109-JJW-013*	*WG-37191-072209-030*	*WG-37191-082107-RN-006*	*WG-37191-052808-005*	*WG-37191-030509-001*
Sample Date:				*7/22/2009*	*1/21/2009*	*7/22/2009*	*8/21/2007*	*5/28/2008*	*3/5/2009*
		New York State Water Quality							
	Units	*Standards*	*Guidance Values*						
Volatile Organic Compounds									
1,1,1-Trichloroethane	ug/L	5	NC	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	ug/L	5	NC	50 UJ	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	1	NC	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	ug/L	5	NC	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	ug/L	5	NC	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	ug/L	5	NC	50 UJ	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.04	NC	50 UJ	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 UJ
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	0.0006	NC	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	ug/L	3	NC	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	ug/L	0.6	NC	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	ug/L	1	NC	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	ug/L	3	NC	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	ug/L	3	NC	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl Ethyl Ketone)	ug/L	NC	50	50 U	2.8 J	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	ug/L	NC	50	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	NC	NC	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	ug/L	NC	50	200 U	20 U	20 U	20 UJ	20 U	20 UJ
Benzene	ug/L	1	NC	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	ug/L	NC	50	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	ug/L	NC	50	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl Bromide)	ug/L	5	NC	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L	60	60	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L	5	NC	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	ug/L	5	NC	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	ug/L	5	NC	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	ug/L	7	NC	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl Chloride)	ug/L	5	NC	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	5	NC	**740**	5.0 U	5.0 U	1.0 J	5.0 U	5.0 U
cis-1,3-Dichloropropene	ug/L	NC	NC	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cyclohexane	ug/L	NC	NC	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	NC	50	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	5	NC	50 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U
Ethylbenzene	ug/L	5	NC	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	5	NC	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	ug/L	NC	NC	50 UJ	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
Methyl cyclohexane	ug/L	NC	NC	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl Tert Butyl Ether	ug/L	NC	10	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	5	NC	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	5	NC	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	ug/L	5	NC	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	ug/L	5	NC	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/L	5	NC	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	ug/L	NC	NC	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	ug/L	5	NC	**290**	5.0 U	5.0 U	3.2 J	5.0 U	0.97 J
Trichlorofluoromethane (CFC-11)	ug/L	5	NC	50 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	5	NC	50 U	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U
Vinyl chloride	ug/L	2	NC	50 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Xylene (total)	ug/L	NC	NC	150 U	15 U	15 U	15 U	15 U	15 U

TABLE 6.8

VOC ANALYTICAL RESULTS SUMMARY - OVERBURDEN GROUNDWATER
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*MW-6*	*MW-7*	*MW-7*	*MW-8*	*MW-8*	*MW-8*
Sample Name:				*WG-37191-072209-035*	*GW-37191-012109-JJW-013*	*WG-37191-072209-030*	*WG-37191-082107-RN-006*	*WG-37191-052808-005*	*WG-37191-030509-001*
Sample Date:				*7/22/2009*	*1/21/2009*	*7/22/2009*	*8/21/2007*	*5/28/2008*	*3/5/2009*
		New York State Water Quality							
	Units	*Standards*	*Guidance Values*						
Field Parameters									
Conductivity	mS/cm	NC	NC	0.639	1.45	1.369	3.17	0.887	--
Dissolved Oxygen	ug/L	NC	NC	1900	0	510	--	540	--
Oxidation reduction potential	millivolts	NC	NC	-12	--	-22	--	45	--
Temperature, Field	Deg C	NC	NC	16.14	8.5	16.52	173	14	--
Turbidity	NTU	5	NC	2.16	**11.1**	**5.02**	**1000 >**	0	--
pH	pH units	6.5-8.5	NC	6.96	6.66	6.92	7.05	6.96	--

[1] - Reported results were converted from ug/kg (ppb) to mg/kg (ppm) for ease of comparison to criteria.
Sample results identified as off-Site are compared to the Restricted Use - Residential SCO.
considered to be met if the analysis for the total species of this contaminant is below the specific SCO. The most

1.0 - Exceeds Criteria

U - Not present at the associated value.
J - Estimated concentration.
NC - No criteria.

TABLE 6.8

VOC ANALYTICAL RESULTS SUMMARY - OVERBURDEN GROUNDWATER
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*MW-8*	*MW-9*	*MW-9*	*MW-9*	*MW-9*	*MW-10*
Sample Name:				*WG-37191-072109-018*	*WG-37191-082107-RN-007*	*WG-37191-052808-001*	*GW-37191-011909-JJW-006*	*WG-37191-072109-015*	*WG-37191-091908-002*
Sample Date:				*7/21/2009*	*8/21/2007*	*5/28/2008*	*1/19/2009*	*7/21/2009*	*9/19/2008*
		New York State Water Quality							
	Units	*Standards*	*Guidance Values*						
Volatile Organic Compounds									
1,1,1-Trichloroethane	ug/L	5	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	ug/L	5	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	1	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	ug/L	5	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	ug/L	5	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	ug/L	5	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.04	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	0.0006	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ
1,2-Dichlorobenzene	ug/L	3	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	ug/L	0.6	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	ug/L	1	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	ug/L	3	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	ug/L	3	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl Ethyl Ketone)	ug/L	NC	50	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U
2-Hexanone	ug/L	NC	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	NC	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	ug/L	NC	50	20 UJ	20 UJ	20 U	20 U	20 UJ	20 U
Benzene	ug/L	1	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	ug/L	NC	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	ug/L	NC	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl Bromide)	ug/L	5	NC	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 U	5.0 U
Carbon disulfide	ug/L	60	60	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L	5	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	ug/L	5	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	ug/L	5	NC	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 U	5.0 U
Chloroform (Trichloromethane)	ug/L	7	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl Chloride)	ug/L	5	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	5	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	ug/L	NC	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cyclohexane	ug/L	NC	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	3.6 J
Dibromochloromethane	ug/L	NC	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	5	NC	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L	5	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	5	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	ug/L	NC	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ
Methyl cyclohexane	ug/L	NC	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	3.7 J
Methyl Tert Butyl Ether	ug/L	NC	10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	5	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	5	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	ug/L	5	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	ug/L	5	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/L	5	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	ug/L	NC	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	ug/L	5	NC	1.1 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichlorofluoromethane (CFC-11)	ug/L	5	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	5	NC	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	ug/L	2	NC	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Xylene (total)	ug/L	NC	NC	15 U	15 U	15 U	15 U	15 U	2.5 J

TABLE 6.8

VOC ANALYTICAL RESULTS SUMMARY - OVERBURDEN GROUNDWATER
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*MW-8*	*MW-9*	*MW-9*	*MW-9*	*MW-9*	*MW-10*
Sample Name:				*WG-37191-072109-018*	*WG-37191-082107-RN-007*	*WG-37191-052808-001*	*GW-37191-011909-JJW-006*	*WG-37191-072109-015*	*WG-37191-091908-002*
Sample Date:				*7/21/2009*	*8/21/2007*	*5/28/2008*	*1/19/2009*	*7/21/2009*	*9/19/2008*
	Units	*New York State Water Quality Standards*	*Guidance Values*						
Field Parameters									
Conductivity	mS/cm	NC	NC	1.81	1.69	1.47	0.667	1.76	--
Dissolved Oxygen	ug/L	NC	NC	630	--	170	2100	1410	--
Oxidation reduction potential	millivolts	NC	NC	-121	--	56	--	38	--
Temperature, Field	Deg C	NC	NC	18.4	15.7	13.2	5.1	16.5	--
Turbidity	NTU	5	NC	**15.9**	**1000 >**	**8.2**	**6**	**13.4**	--
pH	pH units	6.5-8.5	NC	7.13	7.3	**6.34**	7.01	6.66	--

[1] - Reported results were converted from ug/kg (ppb) to mg/kg (ppm) for ease of comparison to criteria.
Sample results identified as off-Site are compared to the Restricted Use - Residential SCO.
considered to be met if the analysis for the total species of this contaminant is below the specific SCO. The most

1.0 - Exceeds Criteria

U - Not present at the associated value.
J - Estimated concentration.
NC - No criteria.

TABLE 6.8

VOC ANALYTICAL RESULTS SUMMARY - OVERBURDEN GROUNDWATER
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*MW-10*	*MW-10*	*MW-11*	*MW-11*	*MW-11*	*MW-11*
Sample Name:				*GW-37191-012209-JJW-015*	*WG-37191-072009-011*	*WG-37191-091908-001*	*GW-37191-012209-JJW-016*	*GW-37191-012209-JJW-017*	*WG-37191-072009-006*
Sample Date:				*1/22/2009*	*7/20/2009*	*9/19/2008*	*1/22/2009*	*1/22/2009*	*7/20/2009*
								Duplicate	
		New York State Water Quality							
	Units	*Standards*	*Guidance Values*						
Volatile Organic Compounds									
1,1,1-Trichloroethane	ug/L	5	NC	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
1,1,2,2-Tetrachloroethane	ug/L	5	NC	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
1,1,2-Trichloroethane	ug/L	1	NC	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
1,1-Dichloroethane	ug/L	5	NC	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
1,1-Dichloroethene	ug/L	5	NC	5.0 U	5.0 U	250 U	25 U	25 U	1.5 J
1,2,4-Trichlorobenzene	ug/L	5	NC	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.04	NC	5.0 UJ	5.0 U	250 U	25 U	25 U	5.0 U
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	0.0006	NC	5.0 U	5.0 U	250 UJ	25 U	25 U	5.0 U
1,2-Dichlorobenzene	ug/L	3	NC	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
1,2-Dichloroethane	ug/L	0.6	NC	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
1,2-Dichloropropane	ug/L	1	NC	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
1,3-Dichlorobenzene	ug/L	3	NC	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
1,4-Dichlorobenzene	ug/L	3	NC	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
2-Butanone (Methyl Ethyl Ketone)	ug/L	NC	50	3.6 J	5.0 U	250 U	25 U	25 U	5.0 U
2-Hexanone	ug/L	NC	50	5.0 UJ	5.0 U	250 U	25 U	25 U	5.0 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	NC	NC	5.0 UJ	5.0 U	250 U	25 U	25 U	5.0 U
Acetone	ug/L	NC	50	20 UJ	20 UJ	1000 U	100 U	100 U	12 J
Benzene	ug/L	1	NC	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
Bromodichloromethane	ug/L	NC	50	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
Bromoform	ug/L	NC	50	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
Bromomethane (Methyl Bromide)	ug/L	5	NC	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
Carbon disulfide	ug/L	60	60	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
Carbon tetrachloride	ug/L	5	NC	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
Chlorobenzene	ug/L	5	NC	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
Chloroethane	ug/L	5	NC	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
Chloroform (Trichloromethane)	ug/L	7	NC	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
Chloromethane (Methyl Chloride)	ug/L	5	NC	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
cis-1,2-Dichloroethene	ug/L	5	NC	5.0 U	5.0 U	**3500**	**610**	**620**	**350**
cis-1,3-Dichloropropene	ug/L	NC	NC	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
Cyclohexane	ug/L	NC	NC	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
Dibromochloromethane	ug/L	NC	50	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	5	NC	5.0 UJ	5.0 U	250 U	25 U	25 U	5.0 U
Ethylbenzene	ug/L	5	NC	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
Isopropylbenzene	ug/L	5	NC	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
Methyl acetate	ug/L	NC	NC	5.0 UJ	5.0 U	250 UJ	25 U	25 U	5.0 U
Methyl cyclohexane	ug/L	NC	NC	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
Methyl Tert Butyl Ether	ug/L	NC	10	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
Methylene chloride	ug/L	5	NC	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
Styrene	ug/L	5	NC	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
Tetrachloroethene	ug/L	5	NC	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
Toluene	ug/L	5	NC	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
trans-1,2-Dichloroethene	ug/L	5	NC	5.0 U	5.0 U	250 U	25 U	25 U	**5.6**
trans-1,3-Dichloropropene	ug/L	NC	NC	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
Trichloroethene	ug/L	5	NC	5.0 U	0.86 J	**1700**	**280**	**280**	**120**
Trichlorofluoromethane (CFC-11)	ug/L	5	NC	5.0 U	5.0 U	250 U	25 UJ	25 UJ	5.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	5	NC	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
Vinyl chloride	ug/L	2	NC	5.0 U	5.0 U	250 U	25 U	25 U	5.0 U
Xylene (total)	ug/L	NC	NC	15 U	15 U	750 U	75 U	75 U	15 U

TABLE 6.8

VOC ANALYTICAL RESULTS SUMMARY - OVERBURDEN GROUNDWATER
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*MW-10*	*MW-10*	*MW-11*	*MW-11*	*MW-11*	*MW-11*
Sample Name:				*GW-37191-012209-JJW-015*	*WG-37191-072009-011*	*WG-37191-091908-001*	*GW-37191-012209-JJW-016*	*GW-37191-012209-JJW-017*	*WG-37191-072009-006*
Sample Date:				*1/22/2009*	*7/20/2009*	*9/19/2008*	*1/22/2009*	*1/22/2009*	*7/20/2009*
								Duplicate	
	Units	*New York State Water Quality Standards*	*Guidance Values*						
Field Parameters									
Conductivity	mS/cm	NC	NC	0.001	1.147	--	0.002	0.002	1.351
Dissolved Oxygen	ug/L	NC	NC	11500	1390	--	10100	10100	1280
Oxidation reduction potential	millivolts	NC	NC	--	133	--	--	--	71
Temperature, Field	Deg C	NC	NC	7.3	17.82	--	8.2	8.2	20.82
Turbidity	NTU	5	NC	**241**	0.53	--	**235**	**235**	**20.2**
pH	pH units	6.5-8.5	NC	7.39	7.96	--	7.65	7.65	7.65

[1] - Reported results were converted from ug/kg (ppb) to mg/kg (ppm) for ease of comparison to criteria.
Sample results identified as off-Site are compared to the Restricted Use - Residential SCO.
considered to be met if the analysis for the total species of this contaminant is below the specific SCO. The most

1.0 - Exceeds Criteria

U - Not present at the associated value.
J - Estimated concentration.
NC - No criteria.

TABLE 6.8

VOC ANALYTICAL RESULTS SUMMARY - OVERBURDEN GROUNDWATER
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*MW-12*	*MW-12*	*MW-12*	*MW-12*	*MW-12*	*MW-12*
Sample Name:				*WG-37191-082107-RN-004*	*WG-37191-082107-RN-005*	*WG-37191-052808-006*	*WG-37191-052808-007*	*GW-37191-011309-JJW-005*	*WG-37191-072209-036*
Sample Date:				*8/21/2007*	*8/21/2007*	*5/28/2008*	*5/28/2008*	*1/13/2009*	*7/22/2009*
					Duplicate		*Duplicate*		
		New York State Water Quality							
	Units	*Standards*	*Guidance Values*						
Volatile Organic Compounds									
1,1,1-Trichloroethane	ug/L	5	NC	15000 U	1200 U	2500 U	2500 U	50 U	120 U
1,1,2,2-Tetrachloroethane	ug/L	5	NC	15000 U	1200 U	2500 U	2500 U	50 U	120 UJ
1,1,2-Trichloroethane	ug/L	1	NC	15000 U	1200 U	2500 U	2500 U	50 U	120 U
1,1-Dichloroethane	ug/L	5	NC	15000 U	1200 U	2500 U	2500 U	50 U	120 U
1,1-Dichloroethene	ug/L	5	NC	15000 U	1200 U	2500 U	2500 U	50 U	120 U
1,2,4-Trichlorobenzene	ug/L	5	NC	15000 U	1200 U	2500 U	2500 U	50 U	120 UJ
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.04	NC	15000 U	1200 U	2500 U	2500 U	50 UJ	120 UJ
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	0.0006	NC	15000 U	1200 U	2500 U	2500 U	50 U	120 U
1,2-Dichlorobenzene	ug/L	3	NC	15000 U	1200 U	2500 U	2500 U	50 U	120 U
1,2-Dichloroethane	ug/L	0.6	NC	15000 U	1200 U	2500 U	2500 U	50 U	120 U
1,2-Dichloropropane	ug/L	1	NC	15000 U	1200 U	2500 U	2500 U	50 U	120 U
1,3-Dichlorobenzene	ug/L	3	NC	15000 U	1200 U	2500 U	2500 U	50 U	120 U
1,4-Dichlorobenzene	ug/L	3	NC	15000 U	1200 U	2500 U	2500 U	50 U	120 U
2-Butanone (Methyl Ethyl Ketone)	ug/L	NC	50	15000 U	1200 U	2500 U	2500 U	50 UJ	120 U
2-Hexanone	ug/L	NC	50	15000 U	1200 U	2500 U	2500 U	50 UJ	120 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	NC	NC	15000 U	1200 U	2500 U	2500 U	50 UJ	120 U
Acetone	ug/L	NC	50	60000 UJ	5000 U	10000 U	10000 U	200 U	500 U
Benzene	ug/L	1	NC	15000 U	1200 U	2500 U	2500 U	50 U	120 U
Bromodichloromethane	ug/L	NC	50	15000 U	1200 U	2500 U	2500 U	50 U	120 U
Bromoform	ug/L	NC	50	15000 U	1200 U	2500 U	2500 U	50 U	120 U
Bromomethane (Methyl Bromide)	ug/L	5	NC	15000 U	1200 U	2500 U	2500 U	50 UJ	120 U
Carbon disulfide	ug/L	60	60	15000 U	1200 U	2500 U	2500 U	50 U	120 U
Carbon tetrachloride	ug/L	5	NC	15000 U	1200 U	2500 U	2500 U	50 U	120 U
Chlorobenzene	ug/L	5	NC	15000 U	1200 U	2500 U	2500 U	50 U	120 U
Chloroethane	ug/L	5	NC	15000 U	1200 UJ	2500 U	2500 U	50 U	120 U
Chloroform (Trichloromethane)	ug/L	7	NC	15000 U	1200 U	2500 U	2500 U	50 U	120 U
Chloromethane (Methyl Chloride)	ug/L	5	NC	15000 U	1200 U	2500 U	2500 U	50 U	120 U
cis-1,2-Dichloroethene	ug/L	5	NC	**65000 J**	**25000 J**	**15000**	**16000**	**340**	**1100**
cis-1,3-Dichloropropene	ug/L	NC	NC	15000 U	1200 U	2500 U	2500 U	50 U	120 U
Cyclohexane	ug/L	NC	NC	15000 U	1200 U	2500 U	2500 U	50 U	120 U
Dibromochloromethane	ug/L	NC	50	15000 U	1200 U	2500 U	2500 U	50 U	120 U
Dichlorodifluoromethane (CFC-12)	ug/L	5	NC	15000 UJ	1200 U	2500 U	2500 U	50 U	120 U
Ethylbenzene	ug/L	5	NC	15000 U	1200 U	2500 U	2500 U	50 U	120 U
Isopropylbenzene	ug/L	5	NC	15000 U	1200 U	2500 U	2500 U	50 U	120 U
Methyl acetate	ug/L	NC	NC	15000 U	1200 U	2500 U	2500 U	50 U	120 UJ
Methyl cyclohexane	ug/L	NC	NC	15000 U	1200 U	2500 U	2500 U	50 U	120 U
Methyl Tert Butyl Ether	ug/L	NC	10	15000 U	1200 U	2500 U	2500 U	50 U	120 U
Methylene chloride	ug/L	5	NC	15000 U	1200 U	2500 U	2500 U	50 U	120 U
Styrene	ug/L	5	NC	15000 U	1200 U	2500 U	2500 U	50 U	120 U
Tetrachloroethene	ug/L	5	NC	15000 U	1200 U	**640 J**	**710 J**	50 U	**63 J**
Toluene	ug/L	5	NC	15000 U	1200 U	2500 U	2500 U	**10 J**	120 U
trans-1,2-Dichloroethene	ug/L	5	NC	15000 U	1200 U	2500 U	2500 U	50 U	120 U
trans-1,3-Dichloropropene	ug/L	NC	NC	15000 U	1200 U	2500 U	2500 U	50 U	120 U
Trichloroethene	ug/L	5	NC	**190000 J**	**26000 J**	**81000**	**88000**	**570**	**4400**
Trichlorofluoromethane (CFC-11)	ug/L	5	NC	15000 U	1200 U	2500 U	2500 U	50 UJ	120 U
Trifluorotrichloroethane (Freon 113)	ug/L	5	NC	15000 UJ	1200 UJ	2500 U	2500 U	50 U	120 U
Vinyl chloride	ug/L	2	NC	15000 U	**760 J**	**760 J**	**910 J**	50 U	120 U
Xylene (total)	ug/L	NC	NC	45000 U	3800 U	7500 U	7500 U	150 U	380 U

TABLE 6.8

VOC ANALYTICAL RESULTS SUMMARY - OVERBURDEN GROUNDWATER
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*MW-12*	*MW-12*	*MW-12*	*MW-12*	*MW-12*	*MW-12*
Sample Name:				*WG-37191-082107-RN-004*	*WG-37191-082107-RN-005*	*WG-37191-052808-006*	*WG-37191-052808-007*	*GW-37191-011309-JJW-005*	*WG-37191-072209-036*
Sample Date:				*8/21/2007*	*8/21/2007*	*5/28/2008*	*5/28/2008*	*1/13/2009*	*7/22/2009*
					Duplicate		*Duplicate*		
	Units	*New York State Water Quality Standards*	*Guidance Values*						
Field Parameters									
Conductivity	mS/cm	NC	NC	2.17	--	99.9 >	--	0.23	0.817
Dissolved Oxygen	ug/L	NC	NC	--	--	3240	--	3200	800
Oxidation reduction potential	millivolts	NC	NC	--	--	94	--	--	39
Temperature, Field	Deg C	NC	NC	14.1	--	--	--	6.4	17.89
Turbidity	NTU	5	NC	**102**	--	**221**	--	**16.1**	**46.9**
pH	pH units	6.5-8.5	NC	7.26	--	**6.43**	--	6.87	7.37

[1] - Reported results were converted from ug/kg (ppb) to mg/kg (ppm) for ease of comparison to criteria.
Sample results identified as off-Site are compared to the Restricted Use - Residential SCO.
considered to be met if the analysis for the total species of this contaminant is below the specific SCO. The most

1.0 - Exceeds Criteria

U - Not present at the associated value.
J - Estimated concentration.
NC - No criteria.

TABLE 6.8

VOC ANALYTICAL RESULTS SUMMARY - OVERBURDEN GROUNDWATER
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*MW-17*	*MW-17*	*MW-17*	*MW-18*	*MW-18*	*MW-18*
Sample Name:				*WG-37191-052808-009*	*GW-37191-012009-JJW-010*	*WG-37191-072009-013*	*GW-37191-011309-JJW-003*	*GW-37191-011309-JJW-004*	*WG-37191-072209-042*
Sample Date:				*5/28/2008*	*1/20/2009*	*7/20/2009*	*1/13/2009*	*1/13/2009*	*7/22/2009*
								Duplicate	
		New York State Water Quality							
	Units	*Standards*	*Guidance Values*						
Volatile Organic Compounds									
1,1,1-Trichloroethane	ug/L	5	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
1,1,2,2-Tetrachloroethane	ug/L	5	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 UJ
1,1,2-Trichloroethane	ug/L	1	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
1,1-Dichloroethane	ug/L	5	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
1,1-Dichloroethene	ug/L	5	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
1,2,4-Trichlorobenzene	ug/L	5	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 UJ
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.04	NC	5.0 U	5.0 U	5.0 U	25 UJ	50 UJ	50 UJ
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	0.0006	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
1,2-Dichlorobenzene	ug/L	3	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
1,2-Dichloroethane	ug/L	0.6	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
1,2-Dichloropropane	ug/L	1	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
1,3-Dichlorobenzene	ug/L	3	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
1,4-Dichlorobenzene	ug/L	3	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
2-Butanone (Methyl Ethyl Ketone)	ug/L	NC	50	5.0 U	5.0 U	5.0 U	25 UJ	50 UJ	50 U
2-Hexanone	ug/L	NC	50	5.0 U	5.0 U	5.0 U	25 UJ	50 UJ	50 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	NC	NC	5.0 U	5.0 U	5.0 U	25 UJ	50 UJ	50 U
Acetone	ug/L	NC	50	21 U	20 U	11 J	100 U	200 U	200 U
Benzene	ug/L	1	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
Bromodichloromethane	ug/L	NC	50	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
Bromoform	ug/L	NC	50	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
Bromomethane (Methyl Bromide)	ug/L	5	NC	5.0 U	5.0 UJ	5.0 U	25 UJ	50 UJ	50 U
Carbon disulfide	ug/L	60	60	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
Carbon tetrachloride	ug/L	5	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
Chlorobenzene	ug/L	5	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
Chloroethane	ug/L	5	NC	5.0 U	5.0 UJ	5.0 U	25 U	50 U	50 U
Chloroform (Trichloromethane)	ug/L	7	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
Chloromethane (Methyl Chloride)	ug/L	5	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
cis-1,2-Dichloroethene	ug/L	5	NC	1.8 J	5.0 U	5.0 U	**42**	**40 J**	**45 J**
cis-1,3-Dichloropropene	ug/L	NC	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
Cyclohexane	ug/L	NC	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
Dibromochloromethane	ug/L	NC	50	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
Dichlorodifluoromethane (CFC-12)	ug/L	5	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
Ethylbenzene	ug/L	5	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
Isopropylbenzene	ug/L	5	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
Methyl acetate	ug/L	NC	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 UJ
Methyl cyclohexane	ug/L	NC	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
Methyl Tert Butyl Ether	ug/L	NC	10	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
Methylene chloride	ug/L	5	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
Styrene	ug/L	5	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
Tetrachloroethene	ug/L	5	NC	5.0 U	5.0 U	5.0 U	**6.0 J**	50 U	50 U
Toluene	ug/L	5	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
trans-1,2-Dichloroethene	ug/L	5	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
trans-1,3-Dichloropropene	ug/L	NC	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
Trichloroethene	ug/L	5	NC	**5.1**	0.86 J	5.0 U	**680**	**540**	**680**
Trichlorofluoromethane (CFC-11)	ug/L	5	NC	5.0 U	5.0 U	5.0 U	25 UJ	50 UJ	50 U
Trifluorotrichloroethane (Freon 113)	ug/L	5	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
Vinyl chloride	ug/L	2	NC	5.0 U	5.0 U	5.0 U	25 U	50 U	50 U
Xylene (total)	ug/L	NC	NC	15 U	15 U	15 U	75 U	150 U	150 U

TABLE 6.8

VOC ANALYTICAL RESULTS SUMMARY - OVERBURDEN GROUNDWATER
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*MW-17*	*MW-17*	*MW-17*	*MW-18*	*MW-18*	*MW-18*
Sample Name:				*WG-37191-052808-009*	*GW-37191-012009-JJW-010*	*WG-37191-072009-013*	*GW-37191-011309-JJW-003*	*GW-37191-011309-JJW-004*	*WG-37191-072209-042*
Sample Date:				*5/28/2008*	*1/20/2009*	*7/20/2009*	*1/13/2009*	*1/13/2009*	*7/22/2009*
								Duplicate	
	Units	*New York State Water Quality Standards*	*Guidance Values*						
Field Parameters									
Conductivity	mS/cm	NC	NC	1.84	1.1	1.93	0.579	0.579	1.66
Dissolved Oxygen	ug/L	NC	NC	3220	800	810	940	940	1420
Oxidation reduction potential	millivolts	NC	NC	229	--	146	--	--	-50
Temperature, Field	Deg C	NC	NC	13	7.1	15.95	8.5	8.5	14.72
Turbidity	NTU	5	NC	1.8	**22.3**	0.98	**35.7**	**35.7**	**5.3**
pH	pH units	6.5-8.5	NC	6.7	6.95	7.9	6.8	6.8	7.2

[1] - Reported results were converted from ug/kg (ppb) to mg/kg (ppm) for ease of comparison to criteria.
Sample results identified as off-Site are compared to the Restricted Use - Residential SCO.
considered to be met if the analysis for the total species of this contaminant is below the specific SCO. The most

1.0 - Exceeds Criteria

U - Not present at the associated value.
J - Estimated concentration.
NC - No criteria.

TABLE 6.8

VOC ANALYTICAL RESULTS SUMMARY - OVERBURDEN GROUNDWATER
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*MW-19*	*MW-20*	*MW-22*
Sample Name:				*WG-37191-072009-002*	*WG-37191-072209-032*	*WG-37191-072009-004*
Sample Date:				*7/20/2009*	*7/22/2009*	*7/20/2009*
		New York State Water Quality				
	Units	*Standards*	*Guidance Values*			
Volatile Organic Compounds						
1,1,1-Trichloroethane	ug/L	5	NC	500 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	ug/L	5	NC	500 U	5.0 UJ	5.0 U
1,1,2-Trichloroethane	ug/L	1	NC	500 U	5.0 U	5.0 U
1,1-Dichloroethane	ug/L	5	NC	500 U	5.0 U	5.0 U
1,1-Dichloroethene	ug/L	5	NC	500 U	1.3 J	5.0 U
1,2,4-Trichlorobenzene	ug/L	5	NC	500 U	5.0 UJ	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.04	NC	500 U	5.0 UJ	5.0 U
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	0.0006	NC	500 U	5.0 U	5.0 U
1,2-Dichlorobenzene	ug/L	3	NC	500 U	5.0 U	5.0 U
1,2-Dichloroethane	ug/L	0.6	NC	500 U	5.0 U	5.0 U
1,2-Dichloropropane	ug/L	1	NC	500 U	5.0 U	5.0 U
1,3-Dichlorobenzene	ug/L	3	NC	500 U	5.0 U	5.0 U
1,4-Dichlorobenzene	ug/L	3	NC	500 U	5.0 U	5.0 U
2-Butanone (Methyl Ethyl Ketone)	ug/L	NC	50	500 U	5.0 U	5.0 U
2-Hexanone	ug/L	NC	50	500 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	NC	NC	500 U	5.0 U	5.0 U
Acetone	ug/L	NC	50	2000 UJ	20 U	20 UJ
Benzene	ug/L	1	NC	500 U	5.0 U	5.0 U
Bromodichloromethane	ug/L	NC	50	500 U	5.0 U	5.0 U
Bromoform	ug/L	NC	50	500 U	5.0 U	5.0 U
Bromomethane (Methyl Bromide)	ug/L	5	NC	500 U	5.0 U	5.0 U
Carbon disulfide	ug/L	60	60	500 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L	5	NC	500 U	5.0 U	5.0 U
Chlorobenzene	ug/L	5	NC	500 U	5.0 U	5.0 U
Chloroethane	ug/L	5	NC	500 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	ug/L	7	NC	500 U	5.0 U	5.0 U
Chloromethane (Methyl Chloride)	ug/L	5	NC	500 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	5	NC	**410 J**	**89**	1.5 J
cis-1,3-Dichloropropene	ug/L	NC	NC	500 U	5.0 U	5.0 U
Cyclohexane	ug/L	NC	NC	500 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	NC	50	500 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	5	NC	500 U	5.0 U	5.0 U
Ethylbenzene	ug/L	5	NC	500 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	5	NC	500 U	5.0 U	5.0 U
Methyl acetate	ug/L	NC	NC	500 U	5.0 UJ	5.0 U
Methyl cyclohexane	ug/L	NC	NC	500 U	5.0 U	5.0 U
Methyl Tert Butyl Ether	ug/L	NC	10	500 U	5.0 U	5.0 U
Methylene chloride	ug/L	5	NC	500 U	5.0 U	5.0 U
Styrene	ug/L	5	NC	500 U	5.0 U	5.0 U
Tetrachloroethene	ug/L	5	NC	500 U	5.0 U	5.0 U
Toluene	ug/L	5	NC	500 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/L	5	NC	500 U	3.0 J	5.0 U
trans-1,3-Dichloropropene	ug/L	NC	NC	500 U	5.0 U	5.0 U
Trichloroethene	ug/L	5	NC	**15000**	**19**	**30**
Trichlorofluoromethane (CFC-11)	ug/L	5	NC	500 U	5.0 U	5.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	5	NC	500 U	5.0 U	5.0 U
Vinyl chloride	ug/L	2	NC	500 U	**5.5**	5.0 U
Xylene (total)	ug/L	NC	NC	1500 U	15 U	4.3 J

TABLE 6.8

VOC ANALYTICAL RESULTS SUMMARY - OVERBURDEN GROUNDWATER
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				***MW-19***	***MW-20***	***MW-22***
Sample Name:				***WG-37191-072009-002***	***WG-37191-072209-032***	***WG-37191-072009-004***
Sample Date:				***7/20/2009***	***7/22/2009***	***7/20/2009***
	Units	***New York State Water Quality Standards***	***Guidance Values***			
Field Parameters						
Conductivity	mS/cm	NC	NC	1.92	2.83	1.82
Dissolved Oxygen	ug/L	NC	NC	780	1570	1780
Oxidation reduction potential	millivolts	NC	NC	271	-158	-105
Temperature, Field	Deg C	NC	NC	20.81	10.03	15.22
Turbidity	NTU	5	NC	1.43	**5.81**	**10**
pH	pH units	6.5-8.5	NC	7.24	7.08	6.97

[1] - Reported results were converted from ug/kg (ppb) to mg/kg (ppm) for ease of comparison to criteria.
Sample results identified as off-Site are compared to the Restricted Use - Residential SCO.
considered to be met if the analysis for the total species of this contaminant is below the specific SCO. The most

1.0 - Exceeds Criteria

U - Not present at the associated value.
J - Estimated concentration.
NC - No criteria.

TABLE 6.9

SVOC ANALYTICAL RESULTS SUMMARY - OVERBURDEN GROUNDWATER
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*MW-4*	*MW-4*	*MW-4*	*MW-4*	*MW-9*	*MW-9*
Sample Name:				*WG-37191-082107-RN-001*	*WG-37191-082107-RN-002*	*WG-37191-052808-003*	*WG-37191-052808-004*	*WG-37191-082107-RN-007*	*WG-37191-052808-001*
Sample Date:				*8/21/2007*	*8/21/2007*	*5/28/2008*	*5/28/2008*	*8/21/2007*	*5/28/2008*
					Duplicate		*Duplicate*		
	Units	*Standards*	*Quality Guidance Values*						
Semivolatile Organic Compounds									
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/L	5	NC	2.1 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
2,4,5-Trichlorophenol	ug/L	NC	NC	11 U	10 U	9.4 U	9.5 U	9.9 U	9.5 U
2,4,6-Trichlorophenol	ug/L	NC	NC	11 U	10 U	9.4 U	9.5 U	9.9 U	9.5 U
2,4-Dichlorophenol	ug/L	5	NC	2.1 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
2,4-Dimethylphenol	ug/L	NC	50	11 U	10 U	9.4 U	9.5 U	9.9 U	9.5 U
2,4-Dinitrophenol	ug/L	NC	10	53 UJ	52 UJ	47 U	48 U	50 UJ	48 U
2,4-Dinitrotoluene	ug/L	5	NC	11 U	10 U	9.4 U	9.5 U	9.9 U	9.5 U
2,6-Dinitrotoluene	ug/L	5	NC	11 U	10 U	9.4 U	9.5 U	9.9 U	9.5 U
2-Chloronaphthalene	ug/L	NC	10	2.1 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
2-Chlorophenol	ug/L	NC	NC	11 U	10 U	9.4 U	9.5 U	9.9 U	9.5 U
2-Methylnaphthalene	ug/L	NC	NC	2.1 U	2.1 U	1.9 U	1.9 U	0.62 J	1.9 U
2-Methylphenol	ug/L	NC	NC	11 U	10 U	9.4 U	9.5 U	9.9 U	9.5 U
2-Nitroaniline	ug/L	5	NC	53 U	52 U	47 U	48 U	50 U	48 U
2-Nitrophenol	ug/L	NC	NC	11 U	10 U	9.4 U	9.5 U	9.9 U	9.5 U
3,3'-Dichlorobenzidine	ug/L	5	NC	11 U	10 U	9.4 U	9.5 U	9.9 U	9.5 U
3-Nitroaniline	ug/L	5	NC	53 U	52 U	47 U	48 U	50 U	48 U
4,6-Dinitro-2-methylphenol	ug/L	NC	NC	53 U	52 U	47 U	48 U	50 U	48 U
4-Bromophenyl phenyl ether	ug/L	NC	NC	11 U	10 U	9.4 U	9.5 U	9.9 U	9.5 U
4-Chloro-3-methylphenol	ug/L	NC	NC	11 U	10 U	9.4 U	9.5 U	9.9 U	9.5 U
4-Chloroaniline	ug/L	5	NC	11 U	10 U	9.4 U	9.5 U	9.9 U	9.5 U
4-Chlorophenyl phenyl ether	ug/L	NC	NC	11 U	10 U	9.4 U	9.5 U	9.9 U	9.5 U
4-Methylphenol	ug/L	NC	NC	11 U	10 U	9.4 U	9.5 U	9.9 U	9.5 U
4-Nitroaniline	ug/L	5	NC	53 U	52 U	47 U	48 U	50 U	48 U
4-Nitrophenol	ug/L	NC	NC	53 U	52 U	47 U	48 U	50 U	48 U
Acenaphthene	ug/L	NC	20	2.1 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
Acenaphthylene	ug/L	NC	NC	2.1 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
Acetophenone	ug/L	NC	NC	2.1 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
Anthracene	ug/L	NC	50	2.1 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
Atrazine	ug/L	7.5	NC	2.1 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
Benzaldehyde	ug/L	NC	NC	2.1 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
Benzo(a)anthracene	ug/L	NC	0.002	2.1 U	**0.84 J**	1.9 U	1.9 U	2.0 U	1.9 U
Benzo(a)pyrene	ug/L	NC	NC	2.1 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
Benzo(b)fluoranthene	ug/L	NC	0.002	2.1 U	**0.81 J**	1.9 U	1.9 U	2.0 U	1.9 U
Benzo(g,h,i)perylene	ug/L	NC	NC	2.1 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
Benzo(k)fluoranthene	ug/L	NC	0.002	2.1 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
Biphenyl (1,1-Biphenyl)	ug/L	5	NC	2.1 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
bis(2-Chloroethoxy)methane	ug/L	5	NC	11 U	10 U	9.4 U	9.5 U	9.9 U	9.5 U
bis(2-Chloroethyl)ether	ug/L	1	NC	2.1 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
bis(2-Ethylhexyl)phthalate	ug/L	5	NC	2.1 J	1.4 J	9.4 U	9.5 U	2.4 J	9.5 U
Butyl benzylphthalate	ug/L	NC	50	11 U	10 U	9.4 U	9.5 U	9.9 U	9.5 U
Caprolactam	ug/L	NC	NC	260	370	5.6 U	5.7 U	1200	5.7 U
Carbazole	ug/L	NC	NC	2.1 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
Chrysene	ug/L	NC	0.002	2.1 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
Dibenz(a,h)anthracene	ug/L	NC	NC	2.1 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
Dibenzofuran	ug/L	NC	NC	11 U	10 U	9.4 U	9.5 U	9.9 U	9.5 U
Diethyl phthalate	ug/L	NC	50	11 U	3.0 J	9.4 U	9.5 U	9.9 U	9.5 U
Dimethyl phthalate	ug/L	NC	50	11 U	10 U	9.4 U	9.5 U	9.9 U	9.5 U
Di-n-butylphthalate	ug/L	50	NC	11 U	10 U	9.4 U	9.5 U	9.9 U	9.5 U
Di-n-octyl phthalate	ug/L	NC	50	11 U	10 U	9.4 U	9.5 U	9.9 U	9.5 U
Fluoranthene	ug/L	NC	50	2.1 U	1.5 J	1.9 U	1.9 U	2.0 U	1.9 U
Fluorene	ug/L	NC	50	2.1 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
Hexachlorobenzene	ug/L	0.04	NC	2.1 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
Hexachlorobutadiene	ug/L	0.5	NC	2.1 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
Hexachlorocyclopentadiene	ug/L	5	NC	11 UJ	10 UJ	9.4 U	9.5 U	9.9 UJ	9.5 U
Hexachloroethane	ug/L	5	NC	11 U	10 U	9.4 U	9.5 U	9.9 U	9.5 U
Indeno(1,2,3-cd)pyrene	ug/L	NC	0.002	2.1 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
Isophorone	ug/L	NC	50	11 U	10 U	9.4 U	9.5 U	9.9 U	9.5 U
Naphthalene	ug/L	NC	10	2.1 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
Nitrobenzene	ug/L	0.4	NC	2.1 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
N-Nitrosodi-n-propylamine	ug/L	NC	NC	2.1 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
N-Nitrosodiphenylamine	ug/L	NC	50	2.1 U	2.1 U	1.9 U	1.9 U	2.0 U	1.9 U
Pentachlorophenol	ug/L	1	NC	11 U	10 U	9.4 U	9.5 U	9.9 U	9.5 U
Phenanthrene	ug/L	NC	50	0.76 J	1.1 J	1.9 U	1.9 U	2.0 U	1.9 U
Phenol	ug/L	1	NC	2.1 U	0.59 J	1.9 U	1.9 U	0.72 J	1.9 U
Pyrene	ug/L	NC	50	0.72 J	1.2 J	1.9 U	1.9 U	2.0 U	1.9 U

Notes:
1.0 - Exceeds Criteria

U - Not present at the associated value.

J - Estimated concentration.

NC - No criteria.

TABLE 6.10

VOC ANALYTICAL RESULTS SUMMARY - BEDROCK GROUNDWATER
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*MW-5A*	*MW-5A*	*MW-5A*	*MW-6A*	*MW-7A*	*MW-7A*
Sample Name:				*GW-37191-012009-JJW-012*	*WG-37191-072209-038*	*WG-37191-072209-039*	*WG-37191-072209-033*	*GW-37191-012109-JJW-014*	*WG-37191-072209-029*
Sample Date:				*1/20/2009*	*7/22/2009*	*7/22/2009*	*7/22/2009*	*1/21/2009*	*7/22/2009*
						Duplicate			
	Units	*Quality Standards*	*Guidance Values*						
Volatile Organic Compounds									
1,1,1-Trichloroethane	ug/L	5	NC	10000 U	120 U	1000 U	12 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	ug/L	5	NC	10000 U	120 U	1000 UJ	12 UJ	5.0 U	5.0 UJ
1,1,2-Trichloroethane	ug/L	1	NC	10000 U	120 U	1000 U	12 U	5.0 U	5.0 U
1,1-Dichloroethane	ug/L	5	NC	10000 U	120 U	1000 U	12 U	5.0 U	5.0 U
1,1-Dichloroethene	ug/L	5	NC	10000 U	**40 J**	1000 U	12 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	ug/L	5	NC	10000 U	120 U	1000 UJ	12 UJ	5.0 U	5.0 UJ
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.04	NC	10000 U	120 U	1000 UJ	12 UJ	5.0 UJ	5.0 UJ
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	0.0006	NC	10000 U	120 U	1000 U	12 U	5.0 U	5.0 U
1,2-Dichlorobenzene	ug/L	3	NC	10000 U	120 U	1000 U	12 U	5.0 U	5.0 U
1,2-Dichloroethane	ug/L	0.6	NC	10000 U	120 U	**320 J**	12 U	5.0 U	5.0 U
1,2-Dichloropropane	ug/L	1	NC	10000 U	120 U	1000 U	12 U	5.0 U	5.0 U
1,3-Dichlorobenzene	ug/L	3	NC	10000 U	120 U	1000 U	12 U	5.0 U	5.0 U
1,4-Dichlorobenzene	ug/L	3	NC	10000 U	120 U	1000 U	12 U	5.0 U	5.0 U
2-Butanone (Methyl Ethyl Ketone)	ug/L	NC	50	10000 U	120 U	1000 U	12 U	5.0 UJ	5.0 U
2-Hexanone	ug/L	NC	50	10000 U	120 U	1000 U	12 U	5.0 UJ	5.0 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	NC	NC	10000 U	120 U	120 J	12 U	5.0 UJ	5.0 U
Acetone	ug/L	NC	50	40000 U	**280 J**	4000 U	22 J	20 UJ	20 U
Benzene	ug/L	1	NC	10000 U	120 U	1000 U	12 U	5.0 U	5.0 U
Bromodichloromethane	ug/L	NC	50	10000 U	120 U	1000 U	12 U	5.0 U	5.0 U
Bromoform	ug/L	NC	50	10000 U	120 U	1000 U	12 U	5.0 U	5.0 U
Bromomethane (Methyl Bromide)	ug/L	5	NC	10000 UJ	120 U	1000 U	12 U	5.0 U	5.0 U
Carbon disulfide	ug/L	60	60	10000 U	120 U	1000 U	12 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L	5	NC	10000 U	120 U	1000 U	12 U	5.0 U	5.0 U
Chlorobenzene	ug/L	5	NC	10000 U	120 U	1000 U	12 U	5.0 U	5.0 U
Chloroethane	ug/L	5	NC	10000 UJ	120 U	1000 U	12 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	ug/L	7	NC	10000 U	120 U	1000 U	12 U	5.0 U	5.0 U
Chloromethane (Methyl Chloride)	ug/L	5	NC	10000 U	120 U	1000 U	12 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	5	NC	**71000**	**18000**	**27000**	**30**	5.0 U	0.90 J
cis-1,3-Dichloropropene	ug/L	NC	NC	10000 U	120 U	1000 U	12 U	5.0 U	5.0 U
Cyclohexane	ug/L	NC	NC	10000 U	120 U	1000 U	290	5.0 U	5.0 U
Dibromochloromethane	ug/L	NC	50	10000 U	120 U	1000 U	12 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	5	NC	10000 U	120 U	1000 U	12 U	5.0 UJ	5.0 U
Ethylbenzene	ug/L	5	NC	10000 U	120 U	1000 U	2.9 J	5.0 U	5.0 U
Isopropylbenzene	ug/L	5	NC	10000 U	120 U	1000 U	12 U	5.0 U	5.0 U
Methyl acetate	ug/L	NC	NC	10000 U	120 U	1000 UJ	12 UJ	5.0 UJ	5.0 UJ
Methyl cyclohexane	ug/L	NC	NC	10000 U	120 U	1000 U	130	5.0 U	5.0 U
Methyl Tert Butyl Ether	ug/L	NC	10	10000 U	120 U	1000 U	12 U	5.0 U	5.0 U
Methylene chloride	ug/L	5	NC	10000 U	**80 J**	**240 J**	12 U	5.0 U	5.0 U
Styrene	ug/L	5	NC	10000 U	120 U	1000 U	12 U	5.0 U	5.0 U
Tetrachloroethene	ug/L	5	NC	10000 U	**45 J**	1000 U	12 U	5.0 U	5.0 U
Toluene	ug/L	5	NC	10000 U	**24 J**	1000 U	12 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/L	5	NC	10000 U	**66 J**	1000 U	12 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	ug/L	NC	NC	10000 U	120 U	1000 U	12 U	5.0 U	5.0 U
Trichloroethene	ug/L	5	NC	**290000**	**24000**	**35000**	12 U	5.0 U	5.0 U
Trichlorofluoromethane (CFC-11)	ug/L	5	NC	10000 U	120 U	1000 U	12 U	5.0 U	5.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	5	NC	10000 U	120 U	1000 U	12 U	5.0 U	5.0 U
Vinyl chloride	ug/L	2	NC	10000 U	**83 J**	1000 U	12 U	5.0 U	5.0 U
Xylene (total)	ug/L	NC	NC	30000 U	110 J	3000 U	17 J	15 U	15 U

TABLE 6.10

VOC ANALYTICAL RESULTS SUMMARY - BEDROCK GROUNDWATER
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:				*MW-5A*	*MW-5A*	*MW-5A*	*MW-6A*	*MW-7A*	*MW-7A*
Sample Name:				*GW-37191-012009-JJW-012*	*WG-37191-072209-038*	*WG-37191-072209-039*	*WG-37191-072209-033*	*GW-37191-012109-JJW-014*	*WG-37191-072209-029*
Sample Date:				*1/20/2009*	*7/22/2009*	*7/22/2009*	*7/22/2009*	*1/21/2009*	*7/22/2009*
						Duplicate			
	Units	*Quality Standards*	*Guidance Values*						
Field Parameters									
Conductivity	mS/cm	NC	NC	2.85	--	--	0.856	1.58	1.409
Dissolved Oxygen	ug/L	NC	NC	480	--	--	620	0	1410
Oxidation reduction potential	millivolts	NC	NC	--	--	--	-217	--	-251
Temperature, Field	Deg C	NC	NC	9.4	--	--	13.26	10.9	14.94
Turbidity	NTU	5	NC	**151**	--	--	**244**	**38.4**	**20.1**
pH	pH units	6.5-8.5	NC	**8.83**	--	--	7.54	6.72	7.65

1.0 - Exceeds Criteria

U - Not present at the associated value.
J - Estimated concentration.
NC - No criteria.

TABLE 6.10

VOC ANALYTICAL RESULTS SUMMARY - BEDROCK GROUNDWATER
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:		*MW-9A*	*MW-9A*	*MW-13A*	*MW-13A*	*MW-14A*	*MW-14A*	*MW-15A*
Sample Name:		*GW-37191-011909-JJW-007*	*WG-37191-072109-014*	*GW-37191-011909-JJW-008*	*WG-37191-072209-034*	*GW-37191-012209-JJW-018*	*WG-37191-072009-005*	*GW-37191-012309-JJW-019*
Sample Date:		*1/19/2009*	*7/21/2009*	*1/19/2009*	*7/22/2009*	*1/22/2009*	*7/20/2009*	*1/23/2009*
	Units							
Volatile Organic Compounds								
1,1,1-Trichloroethane	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	5.0 U	2000 U	1200 UJ	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	1.4 J	5.0 U
1,1-Dichloroethene	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	ug/L	5.0 U	5.0 U	2000 U	1200 UJ	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	5.0 U	5.0 U	2000 U	1200 UJ	5.0 U	5.0 U	5.0 UJ
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl Ethyl Ketone)	ug/L	20	5.0 UJ	2000 U	1200 U	5.0 U	5.0 U	2.7 J
2-Hexanone	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	5.0 U	5.0 UJ
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	5.0 U	5.0 UJ
Acetone	ug/L	20 U	20 UJ	8000 U	5000 U	20 U	20 UJ	20 UJ
Benzene	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	5.0 U	5.0 U
Bromoform	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl Bromide)	ug/L	5.0 UJ	5.0 U	2000 UJ	1200 U	5.0 U	5.0 U	5.0 UJ
Carbon disulfide	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	5.0 U	5.0 U
Chloroethane	ug/L	5.0 UJ	5.0 U	2000 UJ	1200 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	2.6 J	5.0 U
Chloromethane (Methyl Chloride)	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	5.0 U	5.0 U	**58000**	**42000**	**140**	**120**	5.0 U
cis-1,3-Dichloropropene	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	5.0 U	5.0 U
Cyclohexane	ug/L	1.2 J	2.0 J	2000 U	1200 U	5.0 U	5.0 U	3.3 J
Dibromochloromethane	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	5.0 U	5.0 U
Methyl acetate	ug/L	5.0 U	5.0 U	2000 U	1200 UJ	5.0 U	5.0 U	5.0 UJ
Methyl cyclohexane	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	5.0 U	2.6 J
Methyl Tert Butyl Ether	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	ug/L	5.0 U	5.0 U	2000 U	1200 U	1.3 J	2.2 J	5.0 U
Toluene	ug/L	5.0 U	5.0 U	2000 U	1200 U	1.1 J	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/L	5.0 U	5.0 U	**350 J**	1200 U	0.83 J	0.88 J	5.0 U
trans-1,3-Dichloropropene	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	5.0 U	5.0 U
Trichloroethene	ug/L	5.0 U	5.0 U	**160000**	**39000**	**140**	**190**	4.2 J
Trichlorofluoromethane (CFC-11)	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 UJ	5.0 U	5.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	5.0 U	5.0 U	2000 U	1200 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	ug/L	5.0 U	5.0 U	**850 J**	**530 J**	5.0 U	5.0 U	5.0 U
Xylene (total)	ug/L	15 U	15 U	6000 U	3800 U	15 U	4.3 J	15 U

TABLE 6.10

VOC ANALYTICAL RESULTS SUMMARY - BEDROCK GROUNDWATER
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:		*MW-9A*	*MW-9A*	*MW-13A*	*MW-13A*	*MW-14A*	*MW-14A*	*MW-15A*
Sample Name:		*GW-37191-011909-JJW-007*	*WG-37191-072109-014*	*GW-37191-011909-JJW-008*	*WG-37191-072209-034*	*GW-37191-012209-JJW-018*	*WG-37191-072009-005*	*GW-37191-012309-JJW-019*
Sample Date:		*1/19/2009*	*7/21/2009*	*1/19/2009*	*7/22/2009*	*1/22/2009*	*7/20/2009*	*1/23/2009*
	Units							
Field Parameters								
Conductivity	mS/cm	0.607	2.09	0.9	2	0.002	0.845	2.99
Dissolved Oxygen	ug/L	360	660	1910	900	9700	1140	0
Oxidation reduction potential	millivolts	--	-130	--	-74	--	-9	--
Temperature, Field	Deg C	10.2	12.52	8.8	15.17	9.9	12.18	12.1
Turbidity	NTU	**148**	**38.7**	**153**	**22**	**34**	**6.26**	**73**
pH	pH units	6.77	7.15	6.78	7.39	**6.2**	7.2	7.09

1.0 - Exceeds Criteria

U - Not present at the associated value.
J - Estimated concentration.
NC - No criteria.

TABLE 6.10

VOC ANALYTICAL RESULTS SUMMARY - BEDROCK GROUNDWATER
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:		*MW-15A*	*MW-18A*	*MW-19A*	*MW-20A*	*MW-21A*	*MW-21A*	*MW-22A*
Sample Name:		*WG-37191-072009-012*	*WG-37191-072209-041*	*WG-37191-072009-001*	*WG-37191-072209-031*	*WG-37191-072109-016*	*WG-37191-072109-017*	*WG-37191-072009-003*
Sample Date:		*7/20/2009*	*7/22/2009*	*7/20/2009*	*7/22/2009*	*7/21/2009*	*7/21/2009*	*7/20/2009*
							Duplicate	
	Units							
Volatile Organic Compounds								
1,1,1-Trichloroethane	ug/L	5.0 U	1500 U	200 U	25 U	50 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	1500 U	200 U	25 UJ	50 U	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	5.0 U	1500 U	200 U	25 U	50 U	5.0 U	5.0 U
1,1-Dichloroethane	ug/L	5.0 U	1500 U	200 U	25 U	50 U	5.0 U	s
1,1-Dichloroethene	ug/L	5.0 U	1500 U	200 U	25 U	50 U	2.5 J	5.0 U
1,2,4-Trichlorobenzene	ug/L	5.0 U	1500 U	200 U	25 UJ	50 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	5.0 U	1500 U	200 U	25 UJ	50 U	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	5.0 U	1500 U	200 U	25 UJ	50 U	5.0 U	5.0 U
1,2-Dichlorobenzene	ug/L	5.0 U	1500 U	200 U	25 U	50 U	5.0 U	5.0 U
1,2-Dichloroethane	ug/L	5.0 U	1500 U	200 U	25 U	50 U	5.0 U	5.0 U
1,2-Dichloropropane	ug/L	5.0 U	1500 U	200 U	25 U	50 U	5.0 U	5.0 U
1,3-Dichlorobenzene	ug/L	5.0 U	1500 U	200 U	25 U	50 U	5.0 U	5.0 U
1,4-Dichlorobenzene	ug/L	5.0 U	1500 U	200 U	25 U	50 U	5.0 U	5.0 U
2-Butanone (Methyl Ethyl Ketone)	ug/L	5.0 U	1500 U	200 U	25 U	50 U	5.0 UJ	5.0 U
2-Hexanone	ug/L	5.0 U	1500 U	200 U	25 U	50 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	5.0 U	1500 U	200 U	25 U	50 U	5.0 U	5.0 U
Acetone	ug/L	20 UJ	6000 U	800 UJ	100 U	**110 J**	20 UJ	11 J
Benzene	ug/L	5.0 U	1500 U	200 U	25 U	50 U	5.0 U	5.0 U
Bromodichloromethane	ug/L	5.0 U	1500 U	200 U	25 U	50 U	5.0 U	5.0 U
Bromoform	ug/L	5.0 U	1500 U	200 U	25 UJ	50 U	5.0 U	5.0 U
Bromomethane (Methyl Bromide)	ug/L	5.0 U	1500 U	200 U	25 U	50 U	5.0 U	5.0 U
Carbon disulfide	ug/L	5.0 U	1500 U	200 U	25 U	50 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L	5.0 U	1500 U	200 U	25 U	50 U	5.0 U	5.0 U
Chlorobenzene	ug/L	5.0 U	1500 U	200 U	25 UJ	50 U	5.0 U	5.0 U
Chloroethane	ug/L	5.0 U	1500 U	200 U	25 U	50 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	ug/L	5.0 U	1500 U	200 U	25 U	50 U	5.0 U	5.0 U
Chloromethane (Methyl Chloride)	ug/L	5.0 U	1500 U	200 U	25 U	50 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	1.1 J	**4600**	**1100**	**620**	**890**	**710 J**	5.0 U
cis-1,3-Dichloropropene	ug/L	5.0 U	1500 U	200 U	25 U	50 U	5.0 U	5.0 U
Cyclohexane	ug/L	5.0 U	1500 U	200 U	25 U	50 U	5.0 U	22
Dibromochloromethane	ug/L	5.0 U	1500 U	200 U	25 UJ	50 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	5.0 U	1500 U	200 U	25 U	50 U	5.0 U	5.0 U
Ethylbenzene	ug/L	5.0 U	1500 U	200 U	25 UJ	50 U	5.0 U	1.0 J
Isopropylbenzene	ug/L	5.0 U	1500 U	200 U	25 UJ	50 U	5.0 U	5.0 U
Methyl acetate	ug/L	5.0 U	1500 U	200 U	25 UJ	50 U	5.0 U	5.0 U
Methyl cyclohexane	ug/L	5.0 U	1500 U	200 U	25 U	50 U	5.0 U	17
Methyl Tert Butyl Ether	ug/L	5.0 U	1500 U	200 U	25 U	50 U	5.0 U	5.0 U
Methylene chloride	ug/L	5.0 U	1500 U	200 U	**5.9 J**	50 U	5.0 U	5.0 U
Styrene	ug/L	5.0 U	1500 U	200 U	25 UJ	50 U	5.0 U	5.0 U
Tetrachloroethene	ug/L	5.0 U	1500 U	200 U	25 U	50 U	5.0 U	5.0 U
Toluene	ug/L	5.0 U	1500 U	200 U	25 U	50 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/L	5.0 U	1500 U	200 U	**5.5 J**	**11 J**	**7.2**	5.0 U
trans-1,3-Dichloropropene	ug/L	5.0 U	1500 U	200 U	25 U	50 U	5.0 U	5.0 U
Trichloroethene	ug/L	4.5 J	**26000**	**4600**	**200**	**2400**	**1900 J**	5.0 U
Trichlorofluoromethane (CFC-11)	ug/L	5.0 U	1500 U	200 U	25 U	50 U	5.0 U	5.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	5.0 U	1500 U	200 U	25 U	50 U	5.0 U	5.0 U
Vinyl chloride	ug/L	5.0 U	1500 U	**70 J**	**14 J**	**26 J**	**42**	5.0 U
Xylene (total)	ug/L	4.3 J	1300 J	600 U	75 UJ	44 J	15 U	11 J

TABLE 6.10

VOC ANALYTICAL RESULTS SUMMARY - BEDROCK GROUNDWATER
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:		*MW-15A*	*MW-18A*	*MW-19A*	*MW-20A*	*MW-21A*	*MW-21A*	*MW-22A*
Sample Name:		*WG-37191-072009-012*	*WG-37191-072209-041*	*WG-37191-072009-001*	*WG-37191-072209-031*	*WG-37191-072109-016*	*WG-37191-072109-017*	*WG-37191-072009-003*
Sample Date:		*7/20/2009*	*7/22/2009*	*7/20/2009*	*7/22/2009*	*7/21/2009*	*7/21/2009*	*7/20/2009*
							Duplicate	
	Units							
Field Parameters								
Conductivity	mS/cm	2.23	2.19	1.73	1.62	1.83	1.83	1.61
Dissolved Oxygen	ug/L	6820	980	1040	550	1930	1930	450
Oxidation reduction potential	millivolts	-11	-188	-78	-12	-100	-100	-133
Temperature, Field	Deg C	15.29	12.51	13.62	14.57	15.28	15.28	12.9
Turbidity	NTU	**26.2**	**31.7**	**40**	**8.56**	**31.2**	**31.2**	**37.1**
pH	pH units	7.23	7.05	7.13	7.16	6.99	6.99	7.86

1.0 - Exceeds Criteria

U - Not present at the associated value.
J - Estimated concentration.
NC - No criteria.

TABLE 6.10

VOC ANALYTICAL RESULTS SUMMARY - BEDROCK GROUNDWATER
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:		*MW-23A*	*MW-23A*	*MW-24A*	*MW-25A*
Sample Name:		*WG-37191-072009-007*	*WG-37191-072009-008*	*WG-37191-072009-010*	*WG-37191-072009-009*
Sample Date:		*7/20/2009*	*7/20/2009*	*7/20/2009*	*7/20/2009*
			Duplicate		
	Units				
Volatile Organic Compounds					
1,1,1-Trichloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl Ethyl Ketone)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	ug/L	20 UJ	20 UJ	20 UJ	11 J
Benzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl Bromide)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 UJ
Chloroform (Trichloromethane)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl Chloride)	ug/L	5.0 U	5.0 U	5.0 U	5.0 UJ
cis-1,2-Dichloroethene	ug/L	0.99 J	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Cyclohexane	ug/L	7.4	7.4	0.78 J	5.0 U
Dibromochloromethane	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	5.0 U	5.0 U	5.0 U	5.0 UJ
Ethylbenzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl cyclohexane	ug/L	5.3	5.4	1.2 J	5.0 U
Methyl Tert Butyl Ether	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	ug/L	1.6 J	5.0 U	5.0 U	1.1 J
Trichlorofluoromethane (CFC-11)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	ug/L	5.0 U	5.0 U	5.0 U	5.0 U
Xylene (total)	ug/L	6.9 J	6.9 J	4.4 J	15 U

TABLE 6.10

VOC ANALYTICAL RESULTS SUMMARY - BEDROCK GROUNDWATER
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:		***MW-23A***	***MW-23A***	***MW-24A***	***MW-25A***
Sample Name:		***WG-37191-072009-007***	***WG-37191-072009-008***	***WG-37191-072009-010***	***WG-37191-072009-009***
Sample Date:		***7/20/2009***	***7/20/2009***	***7/20/2009***	***7/20/2009***
			Duplicate		
	Units				
Field Parameters					
Conductivity	mS/cm	1.7	1.7	2.57	1.036
Dissolved Oxygen	ug/L	3900	3900	2240	400
Oxidation reduction potential	millivolts	-271	-271	-170	-63
Temperature, Field	Deg C	13.55	13.55	15.38	17.73
Turbidity	NTU	**22.7**	**22.7**	**28.1**	**26.5**
pH	pH units	7.33	7.33	6.84	7.89

1.0 - Exceeds Criteria

U - Not present at the associated value.
J - Estimated concentration.
NC - No criteria.

TABLE 6.11

ANALYTICAL RESULTS SUMMARY - SOIL VAPOR INTRUSION
BCP REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

	Location ID:	*82 Harrison*	*82 Harrison*	*82 Harrison*	*103 Harrison*	*103 Harrison*	*127 Harrison*	*127 Harrison*	*127 Harrison*
	Sample Name:	*IA-37191-111809-JDW-002*	*SS-37191-111809-JDW-002*	*SS-37191-111809-JDW-003*	*IA-37191-111809-JDW-001*	*SS-37191-111809-JDW-001*	*IA-37191-111809-JDW-004*	*IA-37191-111809-JDW-005*	*SS-37191-111809-JDW-005*
	Sample Date:	*11/19/2009*	*11/19/2009*	*11/19/2009*	*11/19/2009*	*11/19/2009*	*11/19/2009*	*11/19/2009*	*11/19/2009*
				Duplicate				*Duplicate*	
Volatile Organic Compounds	*Units*								
1,1,1-Trichloroethane	ug/m3	0.44 U	0.90	0.85	0.44 U	0.44 U	0.96	0.96	440 U
1,1,2,2-Tetrachloroethane	ug/m3	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	0.55 U	550 U
1,1,2-Trichloroethane	ug/m3	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	440 U
1,1-Dichloroethane	ug/m3	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	320 U
1,1-Dichloroethene	ug/m3	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.30 J	0.28 J	280 J
1,2,4-Trichlorobenzene	ug/m3	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3000 U
1,2,4-Trimethylbenzene	ug/m3	1.2	1.1	3.1	9.4	0.94	8.4	3.7	390 U
1,2-Dibromoethane (Ethylene Dibromide)	ug/m3	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	620 U
1,2-Dichlorobenzene	ug/m3	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	480 U
1,2-Dichloroethane	ug/m3	0.32 U	0.32 U	0.32 U	0.34	0.32 U	0.32 U	0.32 U	320 U
1,2-Dichloropropane	ug/m3	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	370 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ug/m3	0.12 J	0.10 J	0.098 J	0.11 J	0.56 U	0.56 U	0.56 U	560 U
1,3,5-Trimethylbenzene	ug/m3	0.39 J	0.32 J	0.92	3.6	0.34 J	2.9	1.6	390 U
1,3-Dichlorobenzene	ug/m3	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	480 U
1,4-Dichlorobenzene	ug/m3	0.31 J	0.48 U	0.48 U	0.42 J	0.48 U	0.20 J	0.48 U	480 U
1,4-Dioxane	ug/m3	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	0.72 U	720 U
2,2,4-Trimethylpentane	ug/m3	0.69 J	0.088 J	0.18 J	0.70 J	0.93 U	0.95	0.99	940 U
2-Butanone (Methyl Ethyl Ketone)	ug/m3	2.9	2.0	1.6	18	2.8	3.1	4.5	950 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/m3	0.68 J	0.26 J	0.24 J	2.0	0.26 J	0.77 J	0.90	820 U
Benzene	ug/m3	1.3	0.41	0.40	1.8	0.38	3.6	3.6	260 U
Benzyl Chloride	ug/m3	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	830 U
Bromodichloromethane	ug/m3	0.13 J	0.54 U	0.54 U	1.5	0.54 U	0.54 U	0.54 U	540 U
Bromoform	ug/m3	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	830 U
Bromomethane (Methyl Bromide)	ug/m3	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	310 U
Carbon tetrachloride	ug/m3	0.48 J	0.19 J	0.19 J	0.49 J	0.31 J	0.47 J	0.47 J	500 U
Chlorobenzene	ug/m3	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	370 U
Chloroethane	ug/m3	0.049 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	210 U
Chloroform (Trichloromethane)	ug/m3	0.32 J	0.13 J	0.13 J	4.1	0.29 J	0.38 J	0.41	390 U
Chloromethane (Methyl Chloride)	ug/m3	0.88	0.15 J	0.14 J	1.4	0.27 J	1.4	1.4	410 U
cis-1,2-Dichloroethene	ug/m3	0.32 U	0.35	0.32 U	2.3	0.32 U	57	55	54000
cis-1,3-Dichloropropene	ug/m3	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	360 U
Cyclohexane	ug/m3	0.44 J	0.23 J	0.26 J	5.0	0.96	1.2	0.86	690 U
Dibromochloromethane	ug/m3	0.68 U	0.68 U	0.68 U	0.49 J	0.68 U	0.68 U	0.68 U	680 U
Dichlorodifluoromethane (CFC-12)	ug/m3	2.2	2.3	2.2	2.0	1.2	4.7	4.7	400 U
Ethylbenzene	ug/m3	1.0	0.38	1.1	11	0.62	2.4	2.3	350 U
Hexachlorobutadiene	ug/m3	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U	4.3 U	4300 U
Hexane	ug/m3	1.8	0.78	0.88	2.9	0.86	4.3	4.0	80 J
m&p-Xylene	ug/m3	3.4	1.6	7.8	38	2.2	8.7	8.1	350 U
Methyl Tert Butyl Ether	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1400 U
Methylene chloride	ug/m3	2.0	0.79 U	1.1	150	0.69 U	3.5	2.9	430 J
o-Xylene	ug/m3	1.2	0.64	2.6	11	0.72	3.6	3.2	350 U
Styrene	ug/m3	1.2	0.100 J	0.11 J	1.6	0.19 J	2.0	1.5	340 U
Tert-Butyl Alcohol	ug/m3	0.18 J	0.13 J	0.18 J	0.71 J	0.22 J	0.21 J	0.33 J	970 U
Tetrachloroethene	ug/m3	0.49 J	0.97	0.50 J	0.87	0.36 J	3.1	3.5	780
Toluene	ug/m3	5.1	1.5	2.7	24	2.2	11	11	300 U
trans-1,2-Dichloroethene	ug/m3	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	1.0	0.98	1000
trans-1,3-Dichloropropene	ug/m3	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	360 U
Trichloroethene	ug/m3	0.41	1.8	0.29	15	0.17 J	78	77	73000
Trichlorofluoromethane (CFC-11)	ug/m3	36	11	10	5.2	4.5	2.7	2.7	450 U
Trifluorotrichloroethane (Freon 113)	ug/m3	0.59 J	0.51 J	0.49 J	0.68	0.60 J	1.1	1.1	610 U
Vinyl chloride	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	200 U
Helium	%	--	0.51	0.52	--	0.24 U	--	--	0.72

U - Not present at the associated value.
J - Estimated concentration.

TABLE 6.11

ANALYTICAL RESULTS SUMMARY - SOIL VAPOR INTRUSION
BCP REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

	Location ID:	*138 Harrison*	*138 Harrison*	*Up Wind*	*Up Wind*
	Sample Name:	*IA-37191-111809-JDW-003*	*SS-37191-111809-JDW-004*	*OA-37191-111809-JDW-001*	*OA-37191-111809-JDW-002*
	Sample Date:	*11/19/2009*	*11/19/2009*	*11/19/2009*	*11/19/2009*
					Duplicate
Volatile Organic Compounds	*Units*				
1,1,1-Trichloroethane	ug/m3	0.44 U	0.44 U	0.44 U	0.44 U
1,1,2,2-Tetrachloroethane	ug/m3	0.55 U	0.55 U	0.55 U	0.55 U
1,1,2-Trichloroethane	ug/m3	0.48	0.44 U	0.44 U	0.44 U
1,1-Dichloroethane	ug/m3	0.25 J	0.32 U	0.32 U	0.32 U
1,1-Dichloroethene	ug/m3	0.32 U	0.32 U	0.32 U	0.32 U
1,2,4-Trichlorobenzene	ug/m3	3.0 U	3.0 U	3.0 U	3.0 U
1,2,4-Trimethylbenzene	ug/m3	0.73	0.18 J	0.43	1.9
1,2-Dibromoethane (Ethylene Dibromide)	ug/m3	0.61 U	0.61 U	0.61 U	0.61 U
1,2-Dichlorobenzene	ug/m3	0.48 U	0.48 U	0.48 U	0.48 U
1,2-Dichloroethane	ug/m3	3.6	0.32 U	0.32 U	0.32 U
1,2-Dichloropropane	ug/m3	0.37 U	0.37 U	0.37 U	0.37 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ug/m3	0.56 U	0.56 U	0.56 U	0.56 U
1,3,5-Trimethylbenzene	ug/m3	0.23 J	0.39 U	0.16 J	0.60
1,3-Dichlorobenzene	ug/m3	0.48 U	0.48 U	0.48 U	0.48 U
1,4-Dichlorobenzene	ug/m3	0.48 U	0.17 J	0.48 U	0.48 U
1,4-Dioxane	ug/m3	0.72 U	0.72 U	0.72 U	0.72 U
2,2,4-Trimethylpentane	ug/m3	0.54 J	0.93 U	1.1	1.00
2-Butanone (Methyl Ethyl Ketone)	ug/m3	5.7	1.9	3.0	2.7
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/m3	0.70 J	0.18 J	0.32 J	0.26 J
Benzene	ug/m3	1.8	0.39	2.0	1.9
Benzyl Chloride	ug/m3	0.83 U	0.83 U	0.83 U	0.83 U
Bromodichloromethane	ug/m3	0.32 J	0.68	0.54 U	0.54 U
Bromoform	ug/m3	0.83 U	0.83 U	0.83 U	0.83 U
Bromomethane (Methyl Bromide)	ug/m3	0.31 U	0.31 U	0.31 U	0.31 U
Carbon tetrachloride	ug/m3	0.47 J	1.0	0.52	0.36 J
Chlorobenzene	ug/m3	0.24 J	0.37 U	0.37 U	0.37 U
Chloroethane	ug/m3	0.21 U	0.21 U	0.21 U	0.21 U
Chloroform (Trichloromethane)	ug/m3	0.93	3.7	0.11 J	0.099 J
Chloromethane (Methyl Chloride)	ug/m3	1.1	0.16 J	1.1	1.2
cis-1,2-Dichloroethene	ug/m3	0.11 J	0.32 U	0.32 U	0.32 U
cis-1,3-Dichloropropene	ug/m3	0.36 U	0.36 U	0.36 U	0.36 U
Cyclohexane	ug/m3	0.48 J	0.69 U	0.66 J	0.62 J
Dibromochloromethane	ug/m3	0.68 U	0.68 U	0.68 U	0.68 U
Dichlorodifluoromethane (CFC-12)	ug/m3	2.2	1.6	2.1	2.2
Ethylbenzene	ug/m3	1.1	0.18 J	1.2	1.2
Hexachlorobutadiene	ug/m3	4.3 U	4.3 U	4.3 U	4.3 U
Hexane	ug/m3	2.5	0.71	2.4	2.2
m&p-Xylene	ug/m3	3.2	0.58	3.6	4.3
Methyl Tert Butyl Ether	ug/m3	1.4 U	1.4 U	1.4 U	1.4 U
Methylene chloride	ug/m3	3.5	1.3	2.6	1.7
o-Xylene	ug/m3	1.1	0.22 J	1.2	1.6
Styrene	ug/m3	2.5	0.12 J	2.5	4.1
Tert-Butyl Alcohol	ug/m3	0.32 J	0.35 J	0.21 J	0.15 J
Tetrachloroethene	ug/m3	0.51 J	0.80	0.91	0.82
Toluene	ug/m3	5.5	1.1	7.1	6.4
trans-1,2-Dichloroethene	ug/m3	0.32 U	0.32 U	0.32 U	0.32 U
trans-1,3-Dichloropropene	ug/m3	0.36 U	0.36 U	0.36 U	0.36 U
Trichloroethene	ug/m3	0.39	0.17 J	0.41	0.33
Trichlorofluoromethane (CFC-11)	ug/m3	1.4	1.3	1.5	1.3
Trifluorotrichloroethane (Freon 113)	ug/m3	1.4	0.76	1.1	1.1
Vinyl chloride	ug/m3	0.20 U	0.20 U	0.20 U	0.20 U
Helium	%	--	0.59	--	--

U - Not present at the associated value.
J - Estimated concentration.

TABLE 7.1

SELECTION OF ON-SITE EXPOSURE PATHWAY SCENARIOS
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Scenario Timeframe	*Medium*	*Exposure Medium*	*Exposure Point*	*Receptor Population*	*Receptor Age*	*Exposure Route*	*On-Site/ Off-Site*	*Rationale for Selection or Exclusion of Exposure Pathway*
Current/ Future:	Surface Soil (0 to 2 ftbgs)	Surface Soil	Direct Contact	Trespasser	Adolescent	Ingestion Dermal Inhalation of particulates	on-Site	Potential exposure to contaminated surface soil while trespassing onto the Site.
			Direct Contact	Industrial Worker	Adult	Ingestion Dermal Inhalation of particulates	on-Site	Potential exposure to contaminated surface soil while working on the Site.
		Ambient Air	Direct Contact	Trespasser	Adolescent	Inhalation of vapors	on-Site	Potential exposure to VOCs in ambient air while trespassing onto the Site.
			Direct Contact	Industrial Worker	Adult	Inhalation of vapors	on-Site	Potential exposure to VOCs in ambient air while working on the Site.
	Soils (0 to 10 ftbgs)	Indoor Air	Direct Contact	Industrial Worker	Adult	Inhalation of vapors	on-Site	Potential exposure to VOCs in indoor air while working on the Site.
	Groundwater	Indoor Air	Direct Contact	Industrial Worker	Adult	Inhalation of vapors	on-Site	Potential exposure to VOCs in indoor air while working on the Site.
Future:	Soil (0 to 10 ftbgs)	Soil	Direct Contact	Construction Worker	Adult	Ingestion Dermal Inhalation of particulates	on-Site	Potential exposure to contaminated soil during ground intrusive activities on the Site.
		Ambient Air	Direct Contact	Construction Worker	Adult	Inhalation of vapors	on-Site	Potential exposure to VOCs in ambient air during ground intrusive activities on the Site
	Groundwater	Groundwater	Direct Contact	Construction Worker	Adult	Ingestion Dermal	on-Site	Potential exposure to contaminated groundwater during ground intrusive activities on the Site.
		Ambient Air	Direct Contact	Construction Worker	Adult	Inhalation of vapors	on-Site	Potential exposure to contaminated groundwater during ground intrusive activities on the Site.

TABLE 7.2

SELECTION OF OFF-SITE EXPOSURE PATHWAY SCENARIOS
BROWNFIELD CLEANUP PROGRAM REMEDIAL SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Scenario Timeframe	*Medium*	*Exposure Medium*	*Exposure Point*	*Receptor Population*	*Receptor Age*	*Exposure Route*	*On-Site/ Off-Site*	*Rationale for Selection or Exclusion of Exposure Pathway*
Current/ Future:	Surface Soil (0 to 2 ftbgs)	Surface Soil	Direct Contact	Trespasser	Adolescent	Ingestion Dermal Inhalation of particulates	off-Site	Potential exposure to contaminated surface soil while trespassing onto off-Site commercial/industrial properties.
			Direct Contact	Industrial Worker	Adult	Ingestion Dermal Inhalation of particulates	off-Site	Potential exposure to contaminated surface soil while working on off-Site commercial/industrial properties.
			Direct Contact	Resident	Adult/ Child	Ingestion Dermal Inhalation of particulates	off-Site	Potential exposure to contaminated surface soil during outdoor activities at home.
	Groundwater	Indoor Air	Direct Contact	Industrial Worker	Adult	Inhalation of vapors	off-Site	Potential exposure to VOCs in indoor air while working on off-Site commercial/industrial properties.
		Indoor Air	Direct Contact	Resident	Adult/ Child	Inhalation of vapors	off-Site	Potential exposure to VOCs in indoor air while at home.
Future:	Soil (0 to 10 ftbgs)	Soil	Direct Contact	Construction Worker	Adult	Ingestion Dermal Inhalation of particulates	off-Site	Potential exposure to contaminated soil during ground intrusive activities off-Site.
		Ambient Air	Direct Contact	Construction Worker	Adult	Inhalation of vapors	off-Site	Potential exposure to VOCs in ambient air during ground intrusive activities off-Site
	Groundwater	Groundwater	Direct Contact	Construction Worker	Adult	Ingestion Dermal	off-Site	Potential exposure to contaminated groundwater during ground intrusive activities off-Site
		Ambient Air	Direct Contact	Construction Worker	Adult	Inhalation of vapors	off-Site	Potential exposure to contaminated groundwater during ground intrusive activities off-Site

APPENDIX A

FOCUSED PHASE II EVIRONMENTAL ASSESSMENT; INDUSTRIAL PROPERTY,
51 HAYES PLACE, BUFFALO, NEW YORK –
PREPARED BY ENVIRONMENTAL AUDITS, INC.
DATED MARCH 11, 2004

March 11, 2004

Erin L. Markey, Senior Corporate Attorney
Oneida, Ltd. Legal Department
161-183 Kenwood Avenue
Oneida, New York 13421

Re: **Focused Phase II Environmental Assessment;**
Industrial Property, 51 Hayes Place, Buffalo, New York

Dear Ms. Markey:

In accordance with an agreement between Environmental Audits, Inc. (EA) and Oneida, Ltd. (hereinafter the "Client"), signed March 1, 2004, EA completed a focused Phase II Environmental Site Assessment (ESA) of the above-referenced (subject) site. Both the ESA and this related letter report were completed on behalf of, and for the use of, Oneida, Ltd. for its reliance in the environmental assessment of the subject site. Use of this ESA report by any other party is strictly prohibited, except by authorization in writing from the Client.

This focused Phase II ESA was completed to address selected conditions of environmental concern, as originally identified in a Phase I report prepared by EA, dated February 2004. The primary conditions of concern for the site, as interpreted by EA, included:

- Condition of the shallow surface and subsurface soil profile within the following on-site locations: 1) Paved and dirt/gravel parking areas surrounding the factory to determine whether residues left from past on-site spills caused elevated levels of surface and subsurface Lead and/or petroleum contamination; 2) Large perimeter berm to determine if historic disposal practices caused elevated levels of Lead and/or petroleum contamination in the excavated and stockpiled materials; 3) Exterior area surrounding the on-site warehouse to determine if past operating, storage and disposal practices resulted in any release(s) of regulated substances to the on-site soil profile; and 4) Eastern portion of the subject site to attempt to verify that no underground petroleum storage tanks exist in this area and to determine if past releases of regulated substances related to former on-site collision/automotive repair operations occurred;

- Condition of subfloor soil profile within the factory in the compressor room, concrete chemical storage vaults and the glazemaking area and inside the warehouse at 151 Harrison Street; and

- Condition of deposits that may have accumulated on any surfaces or within any equipment or manufacturing appurtenances.

EA's investigative activities and the associated results of this investigation are described in the following paragraphs, and only reflect the conditions of the subject site within the specific areas of concern that were investigated.

Exterior Subsurface Soil Sampling & Analysis

Prior to performing any on-site subsurface investigative activities, EA obtained appropriate underground utilities clearances by contacting the Underground Facilities Protection Organization, which ensured that all public utilities were located and marked.

On February 26 and 27, and March 1, 2004, EA mobilized a direct-push boring rig to install a total of 42 exterior subsurface borings across the subject site at selected locations. These borings were all installed through the on-site soil profile to depths ranging from five to sixteen feet below grade (bg). Boring locations are provided in Figure 1. Hollow stem sampling probes were used to obtain discrete soil samples at approximately four foot depth intervals to the bottom of each sampling location. Initially, the soil/fill encountered at each sampling location was visually described from the discrete samples obtained. A representative portion of each soil sample was then placed into a plastic Zip-Loc^{R} bag and was allowed to stand for a period of approximately 15 minutes. The headspace within each discrete soil sample bag was then screened for the presence of volatile organic compounds (VOCs) using a portable organic vapor monitor (OVM). Where applicable, the discrete sample exhibiting the highest VOCs headspace reading from each boring was then containerized, preserved by cooling in the field and submitted to the analytical laboratory under chain-of-custody procedures. In the event that additional samples exhibited other characteristic(s) of contamination, these were selected, containerized, preserved by cooling in the field and submitted to the analytical laboratory under chain-of-custody procedures. Descriptions of the soils encountered at each boring location are provided in EA's field notes (Attachment 1). After all discrete samples for each boring had been collected, the boring annulus was backfilled with the native fill or sand/bentonite fill.

The soil profile encountered across the subject site generally consisted of mixed fill grading to silt and sand with varying densities. In the western and northwestern portions of the site, bedrock was encountered at depths of between five to ten feet below grade. Groundwater was encountered in many borings at approximately eight feet below grade.

In a general manner for discussion, EA divided the exterior portion of the subject site into areas, including the: 1) Former Collision Shop Area; 2) Waste Storage and Maintenance Area; and 3) Harrison Warehouse and Silo Area.

Former Collision Shop Area

Soil samples collected from eleven of the 22 borings installed within this area exhibited either staining or headspace levels of VOCs that exceeded background levels. The maximum headspace VOCs reading of 250 ppm was detected in borings SB18 (8'-12' bg) and SB22 (12'-16' bg).

Five soil samples were selected and submitted for laboratory analysis from this area, including SB12 (4'-12' bg), SB14 (8'-12' bg), SB18 (8'-12' bg), SB21 (4'-12' bg), and SB22 (4'-16' bg). All five of these samples were analyzed using USEPA Methods 8260 (TCL VOCs) and 8270 (TCL SVOCs), and the eight RCRA toxic metals, all direct total analyses, except for sample SB12 (4'-12' bg), for which the only metal analyzed was Total Lead.

The laboratory analytical results obtained (Attachment 2) identified several target parameters in each of the five samples submitted from this area, with four of the five samples exhibiting both organic compounds and/or metals that exceeded the applicable NYSDEC Recommended Soil Cleanup Objectives (RSCOs) as presented in Appendix A, Tables 1, 2 and/or 4 of TAGM HWR-94-4046, dated January 24, 1994 (TAGM 4046). These results are summarized in Tables 1, 2 and 3 (Attachment 3).

The VOC Xylene (Table 1) was detected at concentrations exceeding the RSCO in the samples submitted for SB18 (8'-12' bg) and SB22 (4'-16' bg). EA suspects that this may be related to either the historic bulk storage of gasoline (since Ethylbenzene was also detected in SB22) or the historic use of Xylene as a paint solvent by the former collision shop. However, Xylene was also historically used by Buffalo China, Inc. as a solvent in its ware decorating operations. Various SVOCs parameters (Table 2) also exceeded their RSCOs in the samples submitted for SB14 (8'-12' bg), SB21 (4'-12' bg), and SB22 (4'-16' bg), with the highest concentrations being detected in SB14. These parameters all represent NYSDEC STARS-List Semivolatiles for Diesel Fuel/Fuel Oil contamination. Various metals parameters (Table 3) also exceeded their Eastern New York Background Levels (EBLs) in the samples submitted for SB14 (8'-12' bg), SB18 (8'-12' bg), SB21 (4'-12' bg), and SB22 (4'-16' bg). Most of these exceedances are likely to be related to the glacial history of the area which produced widespread elevated metals levels throughout Western New York. However, SB18, SB21 and SB22 all have very high levels of Barium, Chromium and/or Lead that would not be expected to be related to glaciation, and of which only Lead would be directly related to gasoline contamination. It should be noted that all of the borings for which substantial levels of contamination were identified are located in the western portion of the Former Collision Shop Area, and are all at depth.

Waste Storage and Maintenance Area

None of the soil samples collected from the seven borings installed in this area exhibited staining or levels of headspace VOCs exceeding background levels. For confirmation purposes, a total of three soil samples were submitted under chain of custody procedures for laboratory analysis from this area. Samples collected from SB24/25 (0'-4' bg composite), SB27/28 (0'-4' bg composite) and SB26/29 (0'-4' bg composite) were submitted for analysis for the eight RCRA toxic metals, all direct total

analyses. Although Cadmium was detected above the EBL for two of these samples (Table 3), in general, the laboratory analytical results (Attachment 2) did not indicate any metals exist at substantial levels of environmental concern for this area.

Harrison Warehouse and Silo Area

Soil samples collected from three of the twelve borings installed in this area exhibited either staining and/or levels of headspace VOCs exceeding background levels. A maximum VOCs headspace reading of 1,219 ppm was recorded for boring SB35 (8'-10' bg). A total of nine soil samples were selected and submitted for laboratory analysis from this area. Samples collected from SB30/31/32 (4'-10' bg composite), SB33 (0'-4' bg), SB35 (4'-10' bg) and SB37 (4'-5.5' bg) were submitted under chain of custody procedures for analysis using USEPA Methods 8260 (TCL VOCs) and the eight RCRA toxic metals, all direct total analyses. The samples collected from SB33 and SB36 (8'-9' bg) were submitted for analysis using USEPA Method 8270 (TCL - SVOCs), direct total analysis. The sample collected from SB39 (8'-8.5' bg) was submitted for the eight RCRA toxic metals, direct total analysis. The samples collected from SB40 (0'-4' bg), SB41 (0'-5' bg) and SB42 (0'-8' bg) were submitted for analysis for Total Lead and Total Cadmium, direct total analysis.

VOCs were detected in each of the four samples submitted, with two samples exhibiting parameters at concentrations exceeding the applicable RSCOs. The VOC Xylene (Table 1) was detected at a concentration of 7,600 µg/kg (RSCO = 1,200 µg/kg) in the sample collected from SB33 (0'-4' bg), while Trichloroethylene (TCE) was detected at a concentration of 250,000 µg/kg (RSCO = 700 µg/kg) in the sample collected from SB35 (4'-10' bg). As indicated above, Xylene was historically used by Buffalo China, Inc. as a solvent in its ware decorating operations, but EA suspects the historic source of TCE to have been the former mirror manufacturing facility that occupied the Harrison Street warehouse, based on the likely silver plating operation. It should also be noted that TCE was also detected at levels below the RSCO in the samples collected from SB30/31/32 (a composite) and SB37, which may indicate the migration of this solvent away from the suspect source within or just outside the warehouse. SVOCs (Table 2) were detected in both of the samples submitted for the SVOC analysis from this area, with several compounds exceeding their RSCOs in the SB33 and SB36 samples. However, these parameters all represent NYSDEC STARS-List Semivolatiles for Diesel Fuel/Fuel Oil contamination, and considering their shallow depth, are likely to represent surface spills due to leaks from trucks or heavy equipment used or stored in these areas. Various metals parameters (Table 3) also exceeded their EBLs in all of the samples submitted for this area, especially SB33 (0'-4' bg); however, most of these exceedances are likely to be related to the glacial history of the area, as described above.

Interior Subfloor Sampling and Analysis

On March 3, 2004, EA mobilized a direct-push boring rig to the subject site to install a total of nine borings within the on-site buildings. These borings were all installed through concrete flooring and into the soil profile to depths ranging from seven to ten feet bg. Boring locations are provided in Figure 1. All soil/fill samples were collected, described, screened and handled in a manner similar to that described above for the exterior sampling activities. Descriptions of the soils encountered at each boring location are provided in EA's field notes (Attachment 1). After all discrete samples for each boring had been collected, the boring annulus was backfilled with the native fill or sand/bentonite fill, and the surface was completed with quick-set concrete patch.

In a general manner for discussion, EA divided the interior portion of the subject site into areas, including the: 1) Main Factory Area; and 2) Harrison Street Warehouse.

Main Factory Area

Soil samples collected from two of the seven borings installed in the Main Factory Area exhibited either staining or levels of headspace VOCs exceeding background levels. A total of five soil samples were submitted for laboratory analysis from this area. Samples collected from ISB2 (4'-8' bg) and ISB6 (0'-8' bg) were submitted for analysis using USEPA Methods 8260 (TCL VOCs) and 8270 (TCL SVOCs), and the eight RCRA toxic metals, all direct total analyses. Samples collected from ISB3 (0'-8' bg), ISB4 (0'-4' bg) and ISB5 (0'-8' bg) were submitted for analysis for Total Lead and Total Cadmium only.

The laboratory analytical results (Attachment 2) did not indicate any VOCs or SVOCs parameters in either sample submitted for these analyses (Methylene chloride was identified as a laboratory contaminant). Various metals parameters (Table 3) that exceeded their EBLs in all of the interior factory samples submitted, most of which did not appear to present a significant environmental concern. However, the Lead level detected in ISB3 (10,000 ppm) was very high, and is likely related to Buffalo China, Inc.'s manufacture of Leaded glaze in the Glazemaking Room.

Harrison Street Warehouse

Soil samples collected from all three of borings installed in the Harrison Street Warehouse exhibited levels of VOCs exceeding background levels, with a maximum headspace VOCs reading of 428 ppm being detected in boring ISB9 (0'-4' bg). A total of two soil samples were submitted under chain-of-custody procedures for laboratory analysis from this area. Samples collected from ISB7/ISB8 (4'-8' bg & 7'-10' bg composite) and ISB9 (0'-7' bg) were submitted for analysis using USEPA Methods 8260 (TCL VOCs) and 8270 (TCL SVOCs) and the eight RCRA toxic metals, all direct total analyses.

VOCs (Table 1) were detected in both of the samples submitted, with one of the samples, ISB9 (0'-7' bg), exhibiting parameters at concentrations exceeding the applicable RSCOs. Xylene and Ethylbenzene were detected at concentrations of 9,600 µg/kg (RSCO = 5,500 µg/kg) and 11,000 µg/kg (RSCO = 1,200 µg/kg), respectively. These two solvents together provide an indication that this contamination may be related to a limited subfloor gasoline release; however, the source may also have been related to Buffalo China, Inc.'s historic use of Xylene. It should be noted that TCE was detected below the RSCO in the composite sample from ISB7/ISB8. Only one SVOC, bis(2-ethylhexyl) phthalate, was detected in both samples submitted (Table 2); however, the level was below the RSCO. Mercury was detected above the EBL in ISB9, but this may not be related to historic manufacturing operations.

Interior Media Sampling and Analysis

EA collected a total of six bulk media samples from within the Main Factory Area, five of which consisted of composite dust samples and the last of which consisted of trench sludge. The five composite dust samples were collected by sweeping dust from horizontal surfaces at several locations within a selected area. The areas where these dust samples were collected included: 1) Glazemaking; 2) Glaze Reclaim; 3) TK-6 Spray Glaze Area; 4) Color Cell Spray Glaze Area; and 5) Old Slip House. The dust from all specific locations sampled within each area selected was composited and containerized. All five composite samples were then submitted under chain-of-custody procedures for laboratory analysis for Total Lead and Total Cadmium.

The trench sludge sample was collected from the Glaze Reclaim Area floor trench. A sampling scoop was used to collect sludge from several locations within this trench. The discrete sludge samples were combined into one composite sample, placed in an appropriate sample container, and submitted under chain-of-custody procedures for laboratory analysis for Total Lead and Total Cadmium.

High levels of Lead (Table 4) were detected in all six media samples, and may represent characteristic hazardous waste levels. Cadmium was also detected in the Old Slip House dust sample at an elevated level, and also may represent a characteristic hazardous waste level.

Assessment Summary

EA completed a variety of investigative and analytical and screening procedures to provide a characterization of both subsurface and subfloor soil profile conditions, as well as various interior media at the subject site. Based on the results of these activities, EA has determined the following for the specific areas of concern which were investigated as part of this ESA:

- Field observations and analytical data identified the presence of significant subsurface VOCs and SVOCs contamination and metals contamination in the vicinity of the former collision shop. The majority of the data collected for this

area indicate that this contamination may be related to the historic bulk storage of petroleum. Although this contamination appears to be bulk petroleum storage related, EA did not encounter any physical evidence of USTs during the installation of any of the 22 borings in this area of the subject site. Further, EA is also aware that two large bulk storage USTs were excavated and removed, along with a substantial volume of petroleum contaminated soil, during the construction of the Client's adjacent warehouse in the late 1990s. It should be noted that that remedial project was provided with a "no further action" decision by the NYSDEC based upon agency observation and review of verification analytical results. Therefore, these two former USTs are likely not related to the petroleum contamination detected during this investigation. In any regard, the levels of VOCs and SVOCs contamination encountered indicate that some remedial effort may be warranted to reduce the liability associated with this potion of the subject site.

- Field observations and analytical data identified the presence of significant subsurface VOCs contamination inside, and in the vicinity of, the Harrison Street Warehouse. Xylene was historically used by Buffalo China, Inc. as a solvent in its ware decorating operations, and it was detected in shallow subsurface samples. EA suspects the historic source of TCE to have been the former mirror manufacturing facility that occupied the Harrison Street warehouse. It should be noted that TCE was also detected at levels below the RSCO in the samples collected from SB30/31/32 (a composite) south of the warehouse and SB37 toward the silos, which may indicate the migration of this solvent away from the suspect source within or just outside the warehouse. As bedrock and groundwater were encountered in this portion of the subject site, the potential that these subsurface features are TCE-contaminated exists. Since the level of TCE detected in SB35 is significantly higher than the RSCO, remedial effort may be warranted to reduce the liability associated with this potion of the subject site.

- The subfloor soil sample from the Glazemaking Room exhibited a very high level of Lead which may represent the characteristic hazardous waste level. Due to both the nature of the existing manufacturing operations in this area of the facility and the fact that this contamination is located within the footer of the building under a concrete floor, it is possible that this subfloor contamination represents a potential liability that will require remediation if the subfloor soil is disturbed. In that case, any soil/fill or concrete pad removed will most likely require management as a characteristic hazardous waste.

- High levels of Lead were detected in all interior dust samples and in the Glaze Reclaim Area floor trench sludge which may represent a characteristic hazardous waste level. Upon verification by TCLP analysis for Lead and Cadmium, it is likely that these dusts may need to be collected, managed and disposed of as hazardous wastes in order to ensure that any employees working in these areas are not exposed to Lead-contaminated residues that

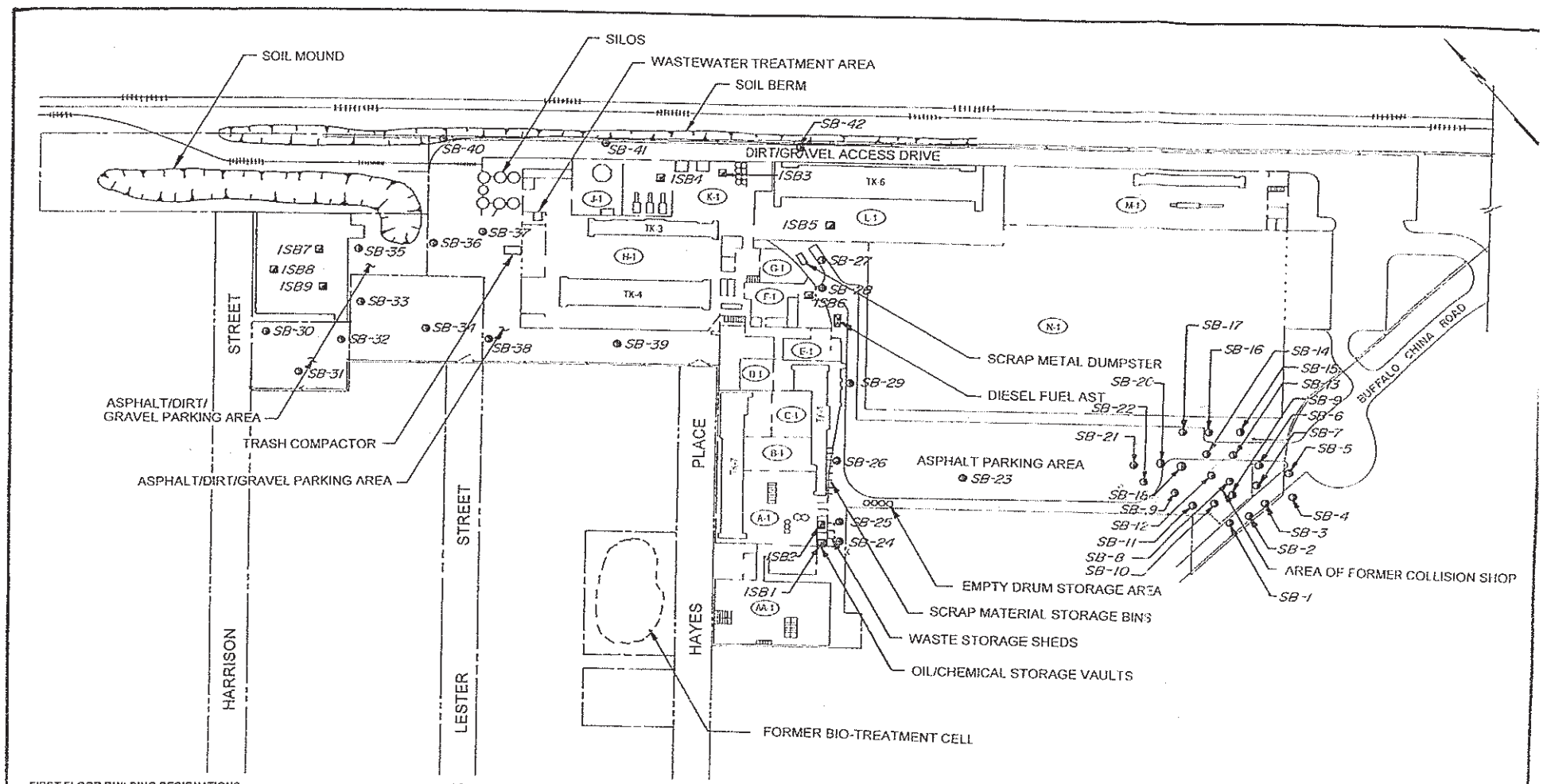
exhibit the characteristics of hazardous waste due to Lead toxicity. Further, the liability related to the Lead-contaminated sludge in the Glaze Reclaim floor trench can be reduced through the removal of this material for proper management, whether on-site or off-site.

The information presented above should adequately summarize EA's investigative efforts and results regarding the various environmental concerns at the subject site, as identified above. If you have any questions regarding the contents of this letter report, please contact me directly.

Very truly yours,
ENVIRONMENTAL AUDITS, INC.

C. Mark Hanna, CHMM
President

Attachments
EA#28\OneidaHayesP2



FIRST FLOOR BUILDING DESIGNATIONS

AA-1	BISQUE WAREHOUSE/STORAGE, BOWL MAKING
A-1	OLD SLIPHOUSE, DOWNSTAIRS QUINT
B-1	TK1 AND TK7 CAR BUILDING
C-1	BISQUE PROCESSING
D-1	ORIGINAL DECORATING DEPT
E-1	CAFETERIA
F-1	MAINTENANCE, AIR COMPRESSORS
G-1	TOOL CRIB, NURSES STATION, MEETING ROOM
H-1	RAM DEPT., DIE SHOP, TK4, COLOR GLAZE, CLARIFIER ROOM
J-1	NEW SLIP, SPRAY DRYER
K-1	GLAZE MAKING & STORAGE
L-1	TK6
M-1	NEW DECORATING DEPT. (DECAL APPLICATION, DECORATING KILNS)
N-1	WAREHOUSE, SHIPPING

SECOND FLOOR BUILDING DESIGNATIONS

AA-2	HAYES WAREHOUSE / STORAGE
A-2	CLAYSHOP
B-2	MOLD SHOP STORAGE
C-2	MOLD / MODEL SHOP, MOLD STORAGE
E-2	OFFICES, STORAGE
F-2	COLOR LAB, COLOR STORAGE, PRESS ROOM
G-2	DECORATING SERVICES AREA, TOOL CRIB LOFT
M-2	OFFICES

BASEMENT BUILDING DESIGNATIONS

AA-B	REFRACTORY STORAGE

THIRD FLOOR BUILDING DESIGNATIONS

E-3	R & D LAB

ENVIRONMENTAL AUDITS, INC.

Phase I/II Audits - Site Investigations - Facility Inspections

SAMPLING LOCATIONS
INDUSTRIAL PROPERTY
51 HAYES PLACE, BUFFALO, NEW YORK

ONEIDA, LTD.
ONEIDA, NEW YORK

DRAWN BY: JLW	SCALE: NOT TO SCALE	PROJECT: 0333
CHECKED BY: CMH	DATE: 3/04	DRAWING NO: 1

Attachment 1

Field Notes

Date 2/26/04 No. 0333

Client BCI

Subject Phase II

Weather Cool Temp

ENVIRONMENTAL AUDITS, INC
3836 N. Buffalo Rd.
Orchard Park, NY 14127
(716) 667-6804

FIELD INVESTIGATION REPORT

Travelled to the site, met with National Fuel regarding gas line layout. Met with Carl Hockins regarding electric line near scrap china bins.

	OVM (PPm)
SB1	
0-4' Asphalt and stone fill, to black sand, wet	5.4
4-8' Layer of white powder substance 1", then soft br + gray silt to stone fill, some water.	7.3
8-12' Stone, wet, then soft brn sand to dense brn clay	7.7
SB2	
0-4' Fill, pieces of red brick, brown + gray sand.	5.8
4-8' Brn sand, moist to wet, rocks + silt, gray	8.1
8-12' Wet silt + sand to dense brn + gray silt + clay.	7.7
SB3	
0-4' Dense brn silt to sand + stone fill.	3.4
4-8' Similar soil to soft silt + sand, wet.	4.6
8-12' Similar soil to dense brn clay.	5.4
SB4	
0-4' Brn silt fill w/some sand.	4.2
4-8' Similar to brn stone gravel + sand, wet	7.3
8-12' Wet, well graded peastone to dense silt + clay.	5.8
SB5	
0-4' Gray fill w/ stones, dense	6.2
4-8' Similar soil to brn silt, then moist black sand.	7.3
8-12' Similar to dense brn silt + clay.	3.8

Signature SAD Title

Date 2/26/04 No. 0333
Client BCI
Subject Phase II
Weather Cool Temp

ENVIRONMENTAL AUDITS, INC
3836 N. Buffalo Rd.
Orchard Park, NY 14127
(716) 667-6804

FIELD INVESTIGATION REPORT

SB6	
Encountered refusal at a number of locations, before success.	
0-4' Brn silt + sand to clay.	25.5
4-8' Mixed brn and black sand, moist	4.6
8-12' Wet, loose sand, grades to dense clay. Possible oil stain and odor.	0.7
SB7	
0-4' Mixed brn silt + sand fill	0.0
4-8' Mixed sand fill w/layer of crushed stone.	2.7
8-12' Dense brn silt and clay, little sand.	3.4
SB8	
0-4' Mixed fill.	3.1
4-8' Fill to silt, layer of wood, black stained.	8.5
8-12' Black stained silt + sand to dense silt + clay.	9.3
SB9	
0-4' Brown + gray fill.	5.1
4-8' Fill to soft brn silt + sand	3.1
8-12' Soft silt grades to dense clay (wet).	6.9
SB10	
0-4' Fill to dense red brn silt (base of 4" concrete).	3.1
4-8' Silt, red brn, fill w/brick, soft silt + sand, possible stain.	5.0
8-12' Black stained silt + sand, dense brn silt + clay.	13.2

Signature SKD Title

Date 2/26/04 No. 0333

Client BCI

Subject Phase II

Weather Cool Temp

ENVIRONMENTAL AUDITS, INC
3836 N. Buffalo Rd.
Orchard Park, NY 14127
(716) 667-6804

FIELD INVESTIGATION REPORT

SB16

0'-4' Brn + gray fill, w/ silt. 2.7

4'-8' Brn silt fill, soft, w/ Red brick 2.4

8'-12' Silt + brick pieces, grades to soft, wet sand, some possible staining. 3.8

SB12

0'-4' Brn silt + rock fill. 5.0

4'-8' Brn + black stained sand + silt, some light gray material with a diesel odor. 74.5

8'-12' Brown + black silt + sand, obvious petro stain + odor, appears to be weathered. 11.2

SB13

Refusal at 3 locations - abandoned location.

SB14

0'-4' Brn fill to dark silt. 3.4

4'-8' Brn + gray mixed silt + rock fill. 3.1

8'-12' Black sand with Creosote odor + obvious staining. NA

Placed 8'-12' in jars for analysis.

Signature SBO Title

Date 2/27/04 No. 0333

Client BCI

Subject Phase II

Weather Cool Temp

ENVIRONMENTAL AUDITS, INC
3836 N. Buffalo Rd.
Orchard Park, NY 14127
(716) 667-6804

FIELD INVESTIGATION REPORT

SB15	
0'-4' Brown fill, silt + sand, to wet silt	4.6
4'-8' Silt to red brick, then rocks, soft wet black sand + silt	6.6
8'-12' Brn + gray wet sand + dense silt + clay	4.2
SB16	
0'-4' Mixed concrete, brick stone, sand fill to cmt sand + silt	8.6
4'-8' Soft silt + sand fill w/ brick fragments	7.5
8'-12' No recovery	
12'-16' Angular stone 4" then dense silt + clay, wet	39
SB17	
0'-4' Brn sand fill	9.0
4'-8' Well graded cmt sand fill	6.4
8'-12' Rock + broken Cinna fill, wet	NA
SB18	
0'-4' Fill, layer of concrete to dense silt, Brn, w/ Rocks.	37.0
4'-8' Loose sand fill, w dark stained sand, odor.	6.4
8'-12' Soft, wet silt sand, Heavy oil odor.	250
SB19	
0'-4' Brown silt, fill	7.1
4'-8' Fill, red brick, dense silt, black sand.	8.7
8'-12' Black sand + rock, wet	7.9
SB20	
0'-4' Brn fill, silt w/ Rocks.	9.0
4'-8' Fill + black sand layer, Lt Brn sand 2"	70.5
8'-12' Soft, wet, black stained silt + sand	18.0

Signature _____ Title _____

Date 2/27/04 + No. 0337
Client BCT Pkg 2
Subject Phase II
Weather Nice, Cool Temp

ENVIRONMENTAL AUDITS, INC
3836 N. Buffalo Rd.
Orchard Park, NY 14127
(716) 667-6804

FIELD INVESTIGATION REPORT

SB21			
0'-4'	Fill with China mixed to black sand	Comp for Analysis	17.8
4'-8'	Mixed sand + gravel + silt fill, black, odor		125.8
8'-12'	Stone + fill, pieces of wire, paper, odor		199
SB22			
0'-4'	Mixed fill, Lt sand.		3.8
4'-8'	Black sand + stone fill, possible odor		37
8'-12'	Stone + fill + debris, stained, heavy odor		26
12'-16'	Mixed stone, wood, fill, strong odor		250
	Composited 4'-16' for analysis.		
Area adjacent to TK-1 + waste piles			
SB23			
0'-4'	Fill, sand, stone china		6.0
4'-8'	Similar soil		6.4
8'-12'	Little recovery - go to 16'	4.6	
12'-16'	Similar to dense brn silt.		4.6
SB24			
0'-4'	Soft, wet clay, to black sand fill		4.9
4'-8'	Soft, wet silt + f sand		7.9
8'-12'	Soft brn + gray Silt + sand, some stiff areas, moist to wet.		4.2
SB25			
0'-4'	Brn sand grades to black, dry		9.0
4'-8'	Soft wet sand + silt to dense silt + sand again.		4.2
8'-12'	Soft, wet f sand + silt to dense silt + clay		5.7
	(Comp 24+25 0'-4')		

Signature _____ Title _____

Date 2/27/04 + 3/1/04 No. 0327

Client BCI Ph 2

Subject Phase II

Weather Nice Temp

ENVIRONMENTAL AUDITS, INC
3836 N. Buffalo Rd.
Orchard Park, NY 14127
(716) 667-6804

FIELD INVESTIGATION REPORT

SB26	
0'-4' Brn + gray sand + stone fill, some silt.	2.3
4'-8' Soft plastic brn silt, tr f sand black + brown, moist to wet	3.5
8'-12' Soft brn silt + sand to dense brn silt + clay	4.6
SB27	
0'-4' Fill to 4 sand layer, then dense brn silt.	3.5
4'-8' Brn silt + f sand, dense, moist	2.3
8'-12' Brn silt + f sand, moist, some soft m sand	3.1
SB28	
0'-4' Fill to dense brn silt.	3.5
4'-8' Dense brn silt.	2.3
8'-12' Soft wet clay to silt.	3.1
(Comp 27 + 28 0'-4')	
SB29	
0'-4' Fill w/ crushed orange-red sand-like substance	2.3
4'-8' Silt + f sand, soft, moist, to dense silt.	2.3
8'-12' Dense brn silt.	2.7
3/1/04	
SB30	
0'-4' Fill, 4" layer of Lt orange sand, dense brn silt.	1.4
4'-8' Similar to wet silt w/ cnt sand, soft	2.6
Refusal at 7.5'.	

Signature Title

Date 3/1/04 No. 0333

Client BCI

Subject Phase II

Weather NRL Temp

ENVIRONMENTAL AUDITS, INC
3836 N. Buffalo Rd.
Orchard Park, NY 14127
(716) 667-6804

FIELD INVESTIGATION REPORT

SB31	
0'-4' Fill to brn + gray silt, brittle	2.3
4'-8' Similar soil to wet silt w/cmt sand, soft	3.0
8'-8'4" Wet sand + silt, soft	3.8
Refusal at 8'4"	
SB32	
0'-4' Fill to brn silt, w some wood, black silt also, brittle	9.8
4'-8' Dense brn + gray silt, softer near bottom.	1.0
8'-10' Refusal at 10'. Similar soil to brn f sand w/rocks, wet, soft to brittle.	18
SB33	
0'-4' Fill, brn + black silt, petro odor	236
4'-8' Dense silt, petro odor, water	71
8'-10.5' Brn silt + f sand, stiff, moist to wet	6.2
Refusal 10.5'	
SB34	
0'-4' Rock fill, layer of clay, then brn + black silt.	2.2
4'-8' Dense brn silt, water in hole from fill above.	3.4
8'-9.3' Wet silt + f sand, little stiff	2.6
Refusal at 9'3"	
SB35	
0'-4' Fill to brn silt, soft	217
4'-8' Hard silt to soft silt + sand, acetone type odor	1,137
8'-10' Brn silt, soft to more dense f sand + silt, odor (Comp 4'-10')	1,219

Signature _____ Title _____

Date 3/1/04 No. 6333

Client BCI

Subject Phase II

Weather Nice Temp

ENVIRONMENTAL AUDITS, INC
3836 N. Buffalo Rd.
Orchard Park, NY 14127
(716) 667-6804

FIELD INVESTIGATION REPORT

SB36	
0-4' Fill to red brick 4", brn dense Silt.	4.6
4-8' Dense brn silt to wet sand + silt	5.4
8-9' Silt, w/some sand, rocks at bottom, possible creosote odor	4.6
(Refusal at 9.0.)	
SB37	
0-4' Fill to dense silt	11.4
4'-5.5' Stiff f sand + silt, wet	15.8
Refusal at 5.5	
SB38	
0-4' Fill to m brn sand, moist	1.4
4-5' Brn somewhat loose sand, moist	1.4
Refusal at 5.0	
SB39	
0-4' Black + Brown sand + mixed fill	2.2
4-8' Brn silt + f sand, stiff, wet.	1.4
8-8.5' Silt dense layer of China, wet	1.0
SB40	
0-4' Fill + brn dense silt	1.4
4-7' Dense brn silt + f sand, wet	1.0
Refusal at 7'	
SB41	
0-4' Mixed dirt fill, dark brown.	0.6
4-5 Similar soil to dense gray silt	
Refusal at 5'	

Signature _____ Title _____

Date 3/1/04 No. 0333

Client BCL

Subject phase II

Weather Nice Temp

ENVIRONMENTAL AUDITS, INC
3836 N. Buffalo Rd.
Orchard Park, NY 14127
(716) 667-6804

FIELD INVESTIGATION REPORT

SB42

0'-4' Brn rock + silt dirt fill 4.6

4'-8' Blk + brn cmt sand fill to silt + vcl f sand 5.0

8'-12' Brn, gray + black sand, stiff, wet. 3.4

Geoprobe was not able to get into Rasacon Street warehouse due to the size of the door. We will have to get the track rig for inside, as well as on the berm.

Signature _____ Title _____

pg 1 of 2

Date 3/3/04 No. 0333
Client BCI
Subject Phase II
Weather Cool Temp

ENVIRONMENTAL AUDITS, INC
3836 N. Buffalo Rd.
Orchard Park, NY 14127
(716) 667-6804

FIELD INVESTIGATION REPORT

Travelled to site, met with Dennis of C+W. Identified drilling locations.

		OVM (PPM)
ISB1		
0'-4'	Dry packed medium brown silty sand, grades to reddish brown clay no odor	5.0
4'-8'	Slightly moist brown to dark brown clay, no odor.	8.6
ISB2		
0'-4'	Light brown silty sand to 1', then red brown clay, no odor	9.4
4'-8'	Red brown clay to dark brown clay w/ apparent black staining and solvent or petroleum odor.	38.8
ISB3		
0'-4'	1' of stone fill, then wet course, black silt with limited apparent asphalt material, no odor.	31.4
4'-8'	Light to medium brown dense clay, no odor	22.3
ISB4		
0'-4'	Mixed sand, stone + brick fill, no odor	7.0
ISB5		
0'-4'	1.5' of stone sand/asphalt/china fill followed by black/brown silt to 3' and then moist packed brown-grey sand, no odor	12.1
4'-8'	Dense brown-gray clay, no odor.	8.2
ISB6		
0'-4'	1.5' of sand/china/brick fill, then dense brown-gray clay, no odor.	7.0
4'-8'	Dense red-brown + gray clay, no odor.	1.8

Signature Title Geologist

M2QL

Date 3/3/04 No. 0333
Client BCI
Subject Phase II
Weather Cool Temp

ENVIRONMENTAL AUDITS, INC
3836 N. Buffalo Rd.
Orchard Park, NY 14127
(716) 667-6804

FIELD INVESTIGATION REPORT

Harrison Street Interior

ISB7
0-4' Concrete to brown, + red brn silt, soft — 34.4
4-8' Brn silt + f Sand w/ rocks, moist. Expanding clay — 54.0

ISB8
0-4' Concrete to brown silt w/apparent red staining to light brn sand, no odor. — 12.2
4-7' Sand, orange-brown clay, no odor — 9.0
7-10' Sand, no odor — 61.0

ISB9
0-4' Concrete to packed brown silt w/red staining to approx 1.5', then gray-brn clay slightly moist at 3.5-4' black staining w/apparent petroleum odor. — 428.0
4-7' Approx 1' of gray-brown clay w/(small) black staining and light apparent petroleum odor, grades to grey orange brown clay w/slight apparent solvent-like odor. — 222.0

Collected dust sample composites from the following locations:
A) Glaze making area
B) Glaze storage reclaim area
C) TK-6 Spray Glaze
D) Color cell spray glazing
E) Old Slip House
Collected a sludge sample from the Glaze recovery trench.

Signature Steve Overhoff Title Pres

Attachment 2

Laboratory Analytical Reports

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06204001
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06204001 Mat:Soil 0333/BCI PHASE 2 SB12(4'-12') 02/26/04 C

	PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
	Percent Solids	70%		03/03/04			MM7216
Total	Lead	170mg/kg dw		03/05/04			MB6116
	TCL Volatiles by EPA Method 8260						
	Chloromethane	<360ug/kg dw		03/04/04	1		VM4803
	Bromomethane	<360ug/kg dw		03/04/04	1		VM4803
	Vinyl Chloride	<360ug/kg dw		03/04/04	1		VM4803
	Chloroethane	<360ug/kg dw		03/04/04	1		VM4803
	Methylene Chloride	<360ug/kg dw		03/04/04	1		VM4803
	Acetone	<1200ug/kg dw		03/04/04	1		VM4803
	Carbon Disulfide	<360ug/kg dw		03/04/04	1		VM4803
	1,1-Dichloroethene	<360ug/kg dw		03/04/04	1		VM4803
	1,1-Dichloroethane	<360ug/kg dw		03/04/04	1		VM4803
	trans-1,2-Dichloroethene	<360ug/kg dw		03/04/04	1		VM4803
	cis-1,2-Dichloroethene	<360ug/kg dw		03/04/04	1		VM4803
	Chloroform	<360ug/kg dw		03/04/04	1		VM4803
	1,2-Dichloroethane	<360ug/kg dw		03/04/04	1		VM4803
	2-Butanone	<1200ug/kg dw		03/04/04	1		VM4803
	1,1,1-Trichloroethane	<360ug/kg dw		03/04/04	1		VM4803
	Carbon Tetrachloride	<360ug/kg dw		03/04/04	1		VM4803
	Bromodichloromethane	<360ug/kg dw		03/04/04	1		VM4803
	1,2-Dichloropropane	<360ug/kg dw		03/04/04	1		VM4803
	cis-1,3-Dichloropropene	<360ug/kg dw		03/04/04	1		VM4803
	Trichloroethene	<360ug/kg dw		03/04/04	1		VM4803
	Dibromochloromethane	<360ug/kg dw		03/04/04	1		VM4803
	1,1,2-Trichloroethane	<360ug/kg dw		03/04/04	1		VM4803
	Benzene	<360ug/kg dw		03/04/04	1		VM4803
	trans-1,3-Dichloropropene	<360ug/kg dw		03/04/04	1		VM4803
	Bromoform	<360ug/kg dw		03/04/04	1		VM4803
	4-Methyl-2-pentanone	<1200ug/kg dw		03/04/04	1		VM4803
	2-Hexanone	<1200ug/kg dw		03/04/04	1		VM4803
	Tetrachloroethene	<360ug/kg dw		03/04/04	1		VM4803
	1,1,2,2-Tetrachloroethane	<360ug/kg dw		03/04/04	1		VM4803
	Toluene	<360ug/kg dw		03/04/04	1		VM4803
	Chlorobenzene	<360ug/kg dw		03/04/04	1		VM4803
	Ethylbenzene	<360ug/kg dw		03/04/04	1		VM4803
	Styrene	<360ug/kg dw		03/04/04	1		VM4803
	m,p-Xylene	<360ug/kg dw		03/04/04	1		VM4803
	o-Xylene	<360ug/kg dw		03/04/04	1		VM4803
	TCL Semivolatiles by EPA Method 8270						
	Phenol	<950ug/kg dw		03/09/04			SA4119
	bis(2-Chloroethyl)ether	<950ug/kg dw		03/09/04			SA4119
	2-Chlorophenol	<950ug/kg dw		03/09/04			SA4119

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06204001
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06204001 Mat:Soil 0333/BCI PHASE 2 SB12(4'-12') 02/26/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
1,3-Dichlorobenzene	<950ug/kg dw		03/09/04			SA4119
1,4-Dichlorobenzene	<950ug/kg dw		03/09/04			SA4119
1,2-Dichlorobenzene	<950ug/kg dw		03/09/04			SA4119
2-Methylphenol	<950ug/kg dw		03/09/04			SA4119
2,2'-Oxybis(1-Chloropropane)	<950ug/kg dw		03/09/04			SA4119
4-Methylphenol	<950ug/kg dw		03/09/04			SA4119
n-Nitrosodinpropylamine	<950ug/kg dw		03/09/04			SA4119
Hexachloroethane	<950ug/kg dw		03/09/04			SA4119
Nitrobenzene	<950ug/kg dw		03/09/04			SA4119
Isophorone	<950ug/kg dw		03/09/04			SA4119
2-Nitrophenol	<950ug/kg dw		03/09/04			SA4119
2,4-Dimethylphenol	<950ug/kg dw		03/09/04			SA4119
bis(2-Chloroethoxy)methane	<950ug/kg dw		03/09/04			SA4119
2,6-Dichlorophenol	<950ug/kg dw		03/09/04			SA4119
1,2,4-Trichlorobenzene	<950ug/kg dw		03/09/04			SA4119
Naphthalene	<950ug/kg dw		03/09/04			SA4119
4-Chloroaniline	<950ug/kg dw		03/09/04			SA4119
Hexachlorobutadiene	<950ug/kg dw		03/09/04			SA4119
4-Chloro-3-methylphenol	<950ug/kg dw		03/09/04			SA4119
2-Methylnaphthalene	<950ug/kg dw		03/09/04			SA4119
Hexachlorocyclopentadiene	<950ug/kg dw		03/09/04			SA4119
2,4,6-Trichlorophenol	<950ug/kg dw		03/09/04			SA4119
2,4,5-Trichlorophenol	<950ug/kg dw		03/09/04			SA4119
2-Chloronaphthalene	<950ug/kg dw		03/09/04			SA4119
2-Nitroaniline	<9500ug/kg dw		03/09/04			SA4119
Dimethylphthalate	<950ug/kg dw		03/09/04			SA4119
Acenaphthylene	<950ug/kg dw		03/09/04			SA4119
2,6-Dinitrotoluene	<950ug/kg dw		03/09/04			SA4119
3-Nitroaniline	<9500ug/kg dw		03/09/04			SA4119
Acenaphthene	<950ug/kg dw		03/09/04			SA4119
2,4-Dinitrophenol	<9500ug/kg dw		03/09/04			SA4119
4-Nitrophenol	<9500ug/kg dw		03/09/04			SA4119
Dibenzofuran	<950ug/kg dw		03/09/04			SA4119
2,4-Dinitrotoluene	<950ug/kg dw		03/09/04			SA4119
Diethylphthalate	<950ug/kg dw		03/09/04			SA4119
4-Chlorophenylphenylether	<950ug/kg dw		03/09/04			SA4119
Fluorene	<950ug/kg dw		03/09/04			SA4119
4-Nitroaniline	<9500ug/kg dw		03/09/04			SA4119
2-Methyl-4,6-dinitrophenol	<9500ug/kg dw		03/09/04			SA4119
n-Nitrosodiphenylamine	<950ug/kg dw		03/09/04			SA4119
4-Bromophenylphenylether	<950ug/kg dw		03/09/04			SA4119
Hexachlorobenzene	<950ug/kg dw		03/09/04			SA4119
Pentachlorophenol	<1900ug/kg dw		03/09/04			SA4119
Phenanthrene	970ug/kg dw		03/09/04			SA4119

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06204001
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06204001 Mat:Soil 0333/BCI PHASE 2 SB12(4'-12') 02/26/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Anthracene	<950ug/kg dw		03/09/04			SA4119
Carbazole	<950ug/kg dw		03/09/04			SA4119
Di-n-butylphthalate	<950ug/kg dw		03/09/04			SA4119
Fluoranthene	870ug/kg dw		03/09/04			SA4119
Pyrene	540ug/kg dw		03/09/04			SA4119
Butylbenzylphthalate	<950ug/kg dw		03/09/04			SA4119
3,3'-Dichlorobenzidine	<950ug/kg dw		03/09/04			SA4119
Benzo(a)anthracene	<950ug/kg dw		03/09/04			SA4119
Chrysene	<950ug/kg dw		03/09/04			SA4119
bis(2-Ethylhexyl)phthalate	3500ug/kg dw		03/09/04			SA4119
Di-n-octylphthalate	<950ug/kg dw		03/09/04			SA4119
Benzo(b)fluoranthene	590ug/kg dw		03/09/04			SA4119
Benzo(k)fluoranthene	<950ug/kg dw		03/09/04			SA4119
Benzo(a)pyrene	<950ug/kg dw		03/09/04			SA4119
Indeno(1,2,3-cd)pyrene	<950ug/kg dw		03/09/04			SA4119
Dibenzo(a,h)anthracene	<950ug/kg dw		03/09/04			SA4119
Benzo(ghi)perylene	<950ug/kg dw		03/09/04			SA4119

ID:06204002 Mat:Soil 0333/BCI PHASE 2 SB14(8'-12') 02/26/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	72%		03/03/04			MP7216
Total Arsenic by Low Level	36mg/kg dw		03/05/04			MB6117
Total Barium	47mg/kg dw		03/03/04			MB6116
Total Cadmium	3.8mg/kg dw		03/05/04			MB6116
Total Chromium	20mg/kg dw		03/05/04			MB6116
Total Lead	99mg/kg dw		03/05/04			MB6116
Total Mercury	1.4mg/kg dw		03/07/04			MB6118
Total Selenium by Low Level	<0.70mg/kg dw		03/05/04			MB6117
Total Silver	<0.9mg/kg dw		03/05/04			MB6116
TCL Volatiles by EPA Method 8260						
Chloromethane	<350ug/kg dw		03/04/04	1		VM4803
Bromomethane	<350ug/kg dw		03/04/04	1		VM4803
Vinyl Chloride	<350ug/kg dw		03/04/04	1		VM4803
Chloroethane	<350ug/kg dw		03/04/04	1		VM4803
Methylene Chloride	<350ug/kg dw		03/04/04	1		VM4803
Acetone	<1200ug/kg dw		03/04/04	1		VM4803
Carbon Disulfide	<350ug/kg dw		03/04/04	1		VM4803
1,1-Dichloroethene	<350ug/kg dw		03/04/04	1		VM4803
1,1-Dichloroethane	<350ug/kg dw		03/04/04	1		VM4803
trans-1,2-Dichloroethene	<350ug/kg dw		03/04/04	1		VM4803
cis-1,2-Dichloroethene	<350ug/kg dw		03/04/04	1		VM4803

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06204001
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06204002 Mat:Soil 0333/BCI PHASE 2 SB14(8'-12') 02/26/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Chloroform	<350ug/kg dw		03/04/04	1		VM4803
1,2-Dichloroethane	<350ug/kg dw		03/04/04	1		VM4803
2-Butanone	<1200ug/kg dw		03/04/04	1		VM4803
1,1,1-Trichloroethane	<350ug/kg dw		03/04/04	1		VM4803
Carbon Tetrachloride	<350ug/kg dw		03/04/04	1		VM4803
Bromodichloromethane	<350ug/kg dw		03/04/04	1		VM4803
1,2-Dichloropropane	<350ug/kg dw		03/04/04	1		VM4803
cis-1,3-Dichloropropene	<350ug/kg dw		03/04/04	1		VM4803
Trichloroethene	<350ug/kg dw		03/04/04	1		VM4803
Dibromochloromethane	<350ug/kg dw		03/04/04	1		VM4803
1,1,2-Trichloroethane	<350ug/kg dw		03/04/04	1		VM4803
Benzene	<350ug/kg dw		03/04/04	1		VM4803
trans-1,3-Dichloropropene	<350ug/kg dw		03/04/04	1		VM4803
Bromoform	<350ug/kg dw		03/04/04	1		VM4803
4-Methyl-2-pentanone	<1200ug/kg dw		03/04/04	1		VM4803
2-Hexanone	<1200ug/kg dw		03/04/04	1		VM4803
Tetrachloroethene	<350ug/kg dw		03/04/04	1		VM4803
1,1,2,2-Tetrachloroethane	<350ug/kg dw		03/04/04	1		VM4803
Toluene	<350ug/kg dw		03/04/04	1		VM4803
Chlorobenzene	<350ug/kg dw		03/04/04	1		VM4803
Ethylbenzene	<350ug/kg dw		03/04/04	1		VM4803
Styrene	<350ug/kg dw		03/04/04	1		VM4803
m,p-Xylene	<350ug/kg dw		03/04/04	1		VM4803
o-Xylene	<350ug/kg dw		03/04/04	1		VM4803
TCL Semivolatiles by EPA Method 8270						
Phenol	<93,000ug/kg dw		03/09/04			SA4119
bis(2-Chloroethyl)ether	<93,000ug/kg dw		03/09/04			SA4119
2-Chlorophenol	<93,000ug/kg dw		03/09/04			SA4119
1,3-Dichlorobenzene	<93,000ug/kg dw		03/09/04			SA4119
1,4-Dichlorobenzene	<93,000ug/kg dw		03/09/04			SA4119
1,2-Dichlorobenzene	<93,000ug/kg dw		03/09/04			SA4119
2-Methylphenol	<93,000ug/kg dw		03/09/04			SA4119
2,2'-Oxybis(1-Chloropropane)	<93,000ug/kg dw		03/09/04			SA4119
4-Methylphenol	830ug/kg dw		03/09/04			SA4119
n-Nitrosodipropylamine	<93,000ug/kg dw		03/09/04			SA4119
Hexachloroethane	<93,000ug/kg dw		03/09/04			SA4119
Nitrobenzene	<93,000ug/kg dw		03/09/04			SA4119
Isophorone	<93,000ug/kg dw		03/09/04			SA4119
2-Nitrophenol	<93,000ug/kg dw		03/09/04			SA4119
2,4-Dimethylphenol	990ug/kg dw		03/09/04			SA4119
bis(2-Chloroethoxy)methane	<93,000ug/kg dw		03/09/04			SA4119
2,4-Dichlorophenol	<93,000ug/kg dw		03/09/04			SA4119
1,2,4-Trichlorobenzene	<93,000ug/kg dw		03/09/04			SA4119

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06204001
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06204002 Mat:Soil 0333/BCI PHASE 2 SB14(8'-12') 02/26/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Naphthalene	>3700ug/kg dw		03/09/04			SA4119
4-Chloroaniline	<93,000ug/kg dw		03/09/04			SA4119
Hexachlorobutadiene	<93,000ug/kg dw		03/09/04			SA4119
4-Chloro-3-methylphenol	<93,000ug/kg dw		03/09/04			SA4119
2-Methylnaphthalene	>3700ug/kg dw		03/09/04			SA4119
Hexachlorocyclopentadiene	<93,000ug/kg dw		03/09/04			SA4119
2,4,6-Trichlorophenol	<93,000ug/kg dw		03/09/04			SA4119
2,4,5-Trichlorophenol	<93,000ug/kg dw		03/09/04			SA4119
2-Chloronaphthalene	<93,000ug/kg dw		03/09/04			SA4119
2-Nitroaniline	<930,000ug/kg d		03/09/04			SA4119
Dimethylphthalate	<93,000ug/kg dw		03/09/04			SA4119
Acenaphthylene	3200ug/kg dw		03/09/04			SA4119
2,6-Dinitrotoluene	<93,000ug/kg dw		03/09/04			SA4119
3-Nitroaniline	<930,000ug/kg d		03/09/04			SA4119
Acenaphthene	>3700ug/kg dw		03/09/04			SA4119
2,4-Dinitrophenol	<930,000ug/kg d		03/09/04			SA4119
4-Nitrophenol	<930,000ug/kg d		03/09/04			SA4119
Dibenzofuran	>3700ug/kg dw		03/09/04			SA4119
2,4-Dinitrotoluene	920ug/kg dw		03/09/04			SA4119
Diethylphthalate	<93,000ug/kg dw		03/09/04			SA4119
4-Chlorophenylphenylether	<93,000ug/kg dw		03/09/04			SA4119
Fluorene	>3700ug/kg dw		03/09/04			SA4119
4-Nitroaniline	<930,000ug/kg d		03/09/04			SA4119
2-Methyl-4,6-dinitrophenol	<930,000ug/kg d		03/09/04			SA4119
n-Nitrosodiphenylamine	<93,000ug/kg dw		03/09/04			SA4119
4-Bromophenylphenylether	<93,000ug/kg dw		03/09/04			SA4119
Hexachlorobenzene	<93,000ug/kg dw		03/09/04			SA4119
Pentachlorophenol	<190,000ug/kg d		03/09/04			SA4119
Phenanthrene	250,000ug/kg dw		03/09/04			SA4119
Anthracene	>3700ug/kg dw		03/09/04			SA4119
Carbazole	>3700ug/kg dw		03/09/04			SA4119
Di-n-butylphthalate	<93,000ug/kg dw		03/09/04			SA4119
Fluoranthene	210,000ug/kg dw		03/09/04			SA4119
Pyrene	140,000ug/kg dw		03/09/04			SA4119
Butylbenzylphthalate	<93,000ug/kg dw		03/09/04			SA4119
3,3'-Dichlorobenzidine	<93,000ug/kg dw		03/09/04			SA4119
Benzo(a)anthracene	>3700ug/kg dw		03/09/04			SA4119
Chrysene	>3700ug/kg dw		03/09/04			SA4119
bis(2-Ethylhexyl)phthalate	1300ug/kg dw		03/09/04			SA4119
Di-n-octylphthalate	<93,000ug/kg dw		03/09/04			SA4119
Benzo(b)fluoranthene	>3700ug/kg dw		03/09/04			SA4119
Benzo(k)fluoranthene	>3700ug/kg dw		03/09/04			SA4119
Benzo(a)pyrene	4400ug/kg dw		03/09/04			SA4119
Indeno(1,2,3-cd)pyrene	>3700ug/kg dw		03/09/04			SA4119

dw = Dry weight

Laboratories, Inc.
Results
umber: 06204001
..D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

:002 Mat:Soil 0333/BCI PHASE 2 SB14(8'-12') 02/26/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Dibenzo(a,h)anthracene	530ug/kg dw		03/09/04			SA4119
Benzo(ghi)perylene	2500ug/kg dw		03/09/04			SA4119

:003 Mat:Soil 0333/BCI PHASE 2 SB18(8'-12') 02/27/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	50%		03/03/04			WM7216
:al Arsenic by Low Level	27mg/kg dw		03/05/04			MB6117
:al Barium	1800mg/kg dw		03/05/04			MB6116
:al Cadmium	6.4mg/kg dw		03/05/04			MB6116
tal Chromium	110mg/kg dw		03/05/04			MB6116
tal Lead	1800mg/kg dw		03/05/04			MB6116
:tal Mercury	<0.40mg/kg dw		03/07/04			MB6118
:tal Selenium by Low Level	<1.0mg/kg dw		03/05/04			MB6117
:tal Silver	<10mg/kg dw		03/05/04			MB6116
TCL Volatiles by EPA Method 8260						
Chloromethane	<1000ug/kg dw		03/03/04	1		VM4802
Bromomethane	<1000ug/kg dw		03/03/04	1		VM4802
Vinyl Chloride	<670ug/kg dw		03/03/04	1		VM4802
Chloroethane	<1000ug/kg dw		03/03/04	1		VM4802
Methylene Chloride	<1000ug/kg dw		03/03/04	1		VM4802
Acetone	<3300ug/kg dw		03/03/04	1		VM4802
Carbon Disulfide	<1000ug/kg dw		03/03/04	1		VM4802
1,1-Dichloroethene	<1000ug/kg dw		03/03/04	1		VM4802
1,1-Dichloroethane	<1000ug/kg dw		03/03/04	1		VM4802
trans-1,2-Dichloroethene	<1000ug/kg dw		03/03/04	1		VM4802
cis-1,2-Dichloroethene	<1000ug/kg dw		03/03/04	1		VM4802
Chloroform	<1000ug/kg dw		03/03/04	1		VM4802
1,2-Dichloroethane	<1000ug/kg dw		03/03/04	1		VM4802
2-Butanone	<3300ug/kg dw		03/03/04	1		VM4802
1,1,1-Trichloroethane	<1000ug/kg dw		03/03/04	1		VM4802
Carbon Tetrachloride	<1000ug/kg dw		03/03/04	1		VM4802
Bromodichloromethane	<1000ug/kg dw		03/03/04	1		VM4802
1,2-Dichloropropane	<1000ug/kg dw		03/03/04	1		VM4802
cis-1,3-Dichloropropene	<1000ug/kg dw		03/03/04	1		VM4802
Trichloroethene	<1000ug/kg dw		03/03/04	1		VM4802
Dibromochloromethane	<1000ug/kg dw		03/03/04	1		VM4802
1,1,2-Trichloroethane	<1000ug/kg dw		03/03/04	1		VM4802
Benzene	<1000ug/kg dw		03/03/04	1		VM4802
trans-1,3-Dichloropropene	<1000ug/kg dw		03/03/04	1		VM4802
Bromoform	<1000ug/kg dw		03/03/04	1		VM4802
4-Methyl-2-pentanone	<3300ug/kg dw		03/03/04	1		VM4802

= Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06204001
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06204003 Mat:Soil 0333/BCI PHASE 2 SB18(8'-12') 02/27/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
2-Hexanone	<3300ug/kg dw		03/03/04		1	VM4802
Tetrachloroethene	<1000ug/kg dw		03/03/04		1	VM4802
1,1,2,2-Tetrachloroethane	<1000ug/kg dw		03/03/04		1	VM4802
Toluene	<1000ug/kg dw		03/03/04		1	VM4802
Chlorobenzene	<1000ug/kg dw		03/03/04		1	VM4802
Ethylbenzene	<1000ug/kg dw		03/03/04		1	VM4802
Styrene	<1000ug/kg dw		03/03/04		1	VM4802
m,p-Xylene	2900ug/kg dw		03/03/04			VM4802
o-Xylene	<1000ug/kg dw		03/03/04		1	VM4802
TCL Semivolatiles by EPA Method 8270						
Phenol	<670ug/kg dw		03/08/04			SA4119
bis(2-Chloroethyl)ether	<670ug/kg dw		03/08/04			SA4119
2-Chlorophenol	<670ug/kg dw		03/08/04			SA4119
1,3-Dichlorobenzene	<670ug/kg dw		03/08/04			SA4119
1,4-Dichlorobenzene	<670ug/kg dw		03/08/04			SA4119
1,2-Dichlorobenzene	<670ug/kg dw		03/08/04			SA4119
2-Methylphenol	<670ug/kg dw		03/08/04			SA4119
2,2'-Oxybis(1-Chloropropane)	<670ug/kg dw		03/08/04			SA4119
4-Methylphenol	<670ug/kg dw		03/08/04			SA4119
n-Nitrosodinpropylamine	<670ug/kg dw		03/08/04			SA4119
Hexachloroethane	<670ug/kg dw		03/08/04			SA4119
Nitrobenzene	<670ug/kg dw		03/08/04			SA4119
Isophorone	<670ug/kg dw		03/08/04			SA4119
2-Nitrophenol	<670ug/kg dw		03/08/04			SA4119
2,4-Dimethylphenol	<670ug/kg dw		03/08/04			SA4119
bis(2-Chloroethoxy)methane	<670ug/kg dw		03/08/04			SA4119
2,4-Dichlorophenol	<670ug/kg dw		03/08/04			SA4119
1,2,4-Trichlorobenzene	<670ug/kg dw		03/08/04			SA4119
Naphthalene	2000ug/kg dw		03/08/04			SA4119
4-Chloroaniline	<670ug/kg dw		03/08/04			SA4119
Hexachlorobutadiene	<670ug/kg dw		03/08/04			SA4119
4-Chloro-3-methylphenol	<670ug/kg dw		03/08/04			SA4119
2-Methylnaphthalene	2400ug/kg dw		03/08/04			SA4119
Hexachlorocyclopentadiene	<670ug/kg dw		03/08/04			SA4119
2,4,6-Trichlorophenol	<670ug/kg dw		03/08/04			SA4119
2,4,5-Trichlorophenol	<670ug/kg dw		03/08/04			SA4119
2-Chloronaphthalene	<670ug/kg dw		03/08/04			SA4119
2-Nitroaniline	<6700ug/kg dw		03/08/04			SA4119
Dimethylphthalate	<670ug/kg dw		03/08/04			SA4119
Acenaphthylene	<670ug/kg dw		03/08/04			SA4119
2,6-Dinitrotoluene	<670ug/kg dw		03/08/04			SA4119
3-Nitroaniline	<6700ug/kg dw		03/08/04			SA4119
Acenaphthene	<670ug/kg dw		03/08/04			SA4119

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06204001
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06204003 Mat:Soil 0333/BCI PHASE 2 SB18(8'-12') 02/27/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
2,4-Dinitrophenol	<6700ug/kg dw		03/08/04			SA4119
4-Nitrophenol	<6700ug/kg dw		03/08/04			SA4119
Dibenzofuran	<670ug/kg dw		03/08/04			SA4119
2,4-Dinitrotoluene	<670ug/kg dw		03/08/04			SA4119
Diethylphthalate	<670ug/kg dw		03/08/04			SA4119
4-Chlorophenylphenylether	<670ug/kg dw		03/08/04			SA4119
Fluorene	<670ug/kg dw		03/08/04			SA4119
4-Nitroaniline	<6700ug/kg dw		03/08/04			SA4119
2-Methyl-4,6-dinitrophenol	<6700ug/kg dw		03/08/04			SA4119
n-Nitrosodiphenylamine	<670ug/kg dw		03/08/04			SA4119
4-Bromophenylphenylether	<670ug/kg dw		03/08/04			SA4119
Hexachlorobenzene	<670ug/kg dw		03/08/04			SA4119
Pentachlorophenol	<1300ug/kg dw		03/08/04			SA4119
Phenanthrene	>3800ug/kg dw		03/08/04			SA4119
Anthracene	>3800ug/kg dw		03/08/04			SA4119
Carbazole	>3800ug/kg dw		03/08/04			SA4119
Di-n-butylphthalate	<670ug/kg dw		03/08/04			SA4119
Fluoranthene	>3800ug/kg dw		03/08/04			SA4119
Pyrene	>3800ug/kg dw		03/08/04			SA4119
Butylbenzylphthalate	<670ug/kg dw		03/08/04			SA4119
3,3'-Dichlorobenzidine	<670ug/kg dw		03/08/04			SA4119
Benzo(a)anthracene	>3800ug/kg dw		03/08/04			SA4119
Chrysene	<670ug/kg dw		03/08/04			SA4119
bis(2-Ethylhexyl)phthalate	<670ug/kg dw		03/08/04			SA4119
Di-n-octylphthalate	<670ug/kg dw		03/08/04			SA4119
Benzo(b)fluoranthene	>3800ug/kg dw		03/08/04			SA4119
Benzo(k)fluoranthene	<670ug/kg dw		03/08/04			SA4119
Benzo(a)pyrene	<670ug/kg dw		03/08/04			SA4119
Indeno(1,2,3-cd)pyrene	<670ug/kg dw		03/08/04			SA4119
Dibenzo(a,h)anthracene	<670ug/kg dw		03/08/04			SA4119
Benzo(ghi)perylene	<670ug/kg dw		03/08/04			SA4119

ID:06204004 Mat:Soil 0333/BCI PHASE 2 SB21(4'-12') 02/27/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	70%		03/03/04			WE7216
Total Arsenic by Low Level	31mg/kg dw		03/05/04			MB6117
Total Barium	560mg/kg dw		03/05/04			MB6116
Total Cadmium	2.9mg/kg dw		03/05/04			MB6116
Total Chromium	1800mg/kg dw		03/05/04			MB6116
Total Lead	9300mg/kg dw		03/05/04			MB6116
Total Mercury	1.4mg/kg dw		03/07/04			MB6118
Total Selenium by Low Level	<0.72mg/kg dw		03/05/04			MB6117

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06204001
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06204004 Mat:Soil 0333/BCI PHASE 2 SB21(4'-12') 02/27/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Total Silver	<7.1mg/kg dw		03/05/04			MM6116
TCL Volatiles by EPA Method 8260						
Chloromethane	<710ug/kg dw		03/03/04	1		VM4802
Bromomethane	<710ug/kg dw		03/03/04	1		VM4802
Vinyl Chloride	<480ug/kg dw		03/03/04	1		VM4802
Chloroethane	<710ug/kg dw		03/03/04	1		VM4802
Methylene Chloride	<710ug/kg dw		03/03/04	1		VM4802
Acetone	<2400ug/kg dw		03/03/04	1		VM4802
Carbon Disulfide	<710ug/kg dw		03/03/04	1		VM4802
1,1-Dichloroethene	<710ug/kg dw		03/03/04	1		VM4802
1,1-Dichloroethane	<710ug/kg dw		03/03/04	1		VM4802
trans-1,2-Dichloroethene	<710ug/kg dw		03/03/04	1		VM4802
cis-1,2-Dichloroethene	<710ug/kg dw		03/03/04	1		VM4802
Chloroform	<710ug/kg dw		03/03/04	1		VM4802
1,2-Dichloroethane	<710ug/kg dw		03/03/04	1		VM4802
2-Butanone	<2400ug/kg dw		03/03/04	1		VM4802
1,1,1-Trichloroethane	<710ug/kg dw		03/03/04	1		VM4802
Carbon Tetrachloride	<710ug/kg dw		03/03/04	1		VM4802
Bromodichloromethane	<710ug/kg dw		03/03/04	1		VM4802
1,2-Dichloropropane	<710ug/kg dw		03/03/04	1		VM4802
cis-1,3-Dichloropropene	<710ug/kg dw		03/03/04	1		VM4802
Trichloroethene	<710ug/kg dw		03/03/04	1		VM4802
Dibromochloromethane	<710ug/kg dw		03/03/04	1		VM4802
1,1,2-Trichloroethane	<710ug/kg dw		03/03/04	1		VM4802
Benzene	<710ug/kg dw		03/03/04	1		VM4802
trans-1,3-Dichloropropene	<710ug/kg dw		03/03/04	1		VM4802
Bromoform	<710ug/kg dw		03/03/04	1		VM4802
4-Methyl-2-pentanone	<2400ug/kg dw		03/03/04	1		VM4802
2-Hexanone	<2400ug/kg dw		03/03/04	1		VM4802
Tetrachloroethene	<710ug/kg dw		03/03/04	1		VM4802
1,1,2,2-Tetrachloroethane	<710ug/kg dw		03/03/04	1		VM4802
Toluene	<710ug/kg dw		03/03/04	1		VM4802
Chlorobenzene	<710ug/kg dw		03/03/04	1		VM4802
Ethylbenzene	<710ug/kg dw		03/03/04	1		VM4802
Styrene	<710ug/kg dw		03/03/04	1		VM4802
m,p-Xylene	<710ug/kg dw		03/03/04	1		VM4802
o-Xylene	<710ug/kg dw		03/03/04	1		VM4802
TCL Semivolatiles by EPA Method 8270						
Phenol	<4800ug/kg dw		03/09/04			SA4119
bis(2-Chloroethyl)ether	<4800ug/kg dw		03/09/04			SA4119
2-Chlorophenol	<4800ug/kg dw		03/09/04			SA4119
1,3-Dichlorobenzene	<4800ug/kg dw		03/09/04			SA4119

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06204001
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06204004 Mat:Soil 0333/BCI PHASE 2 SB21(4'-12') 02/27/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
1,4-Dichlorobenzene	<4800ug/kg dw		03/09/04			SA4119
1,2-Dichlorobenzene	<4800ug/kg dw		03/09/04			SA4119
2-Methylphenol	<4800ug/kg dw		03/09/04			SA4119
2,2'-Oxybis(1-Chloropropane)	<4800ug/kg dw		03/09/04			SA4119
4-Methylphenol	<4800ug/kg dw		03/09/04			SA4119
n-Nitrosodipropylamine	<4800ug/kg dw		03/09/04			SA4119
Hexachloroethane	<4800ug/kg dw		03/09/04			SA4119
Nitrobenzene	<4800ug/kg dw		03/09/04			SA4119
Isophorone	<4800ug/kg dw		03/09/04			SA4119
2-Nitrophenol	<4800ug/kg dw		03/09/04			SA4119
2,4-Dimethylphenol	<4800ug/kg dw		03/09/04			SA4119
bis(2-Chloroethoxy)methane	<4800ug/kg dw		03/09/04			SA4119
2,4-Dichlorophenol	<4800ug/kg dw		03/09/04			SA4119
1,2,4-Trichlorobenzene	<4800ug/kg dw		03/09/04			SA4119
Naphthalene	1200ug/kg dw		03/09/04			SA4119
4-Chloroaniline	<4800ug/kg dw		03/09/04			SA4119
Hexachlorobutadiene	<4800ug/kg dw		03/09/04			SA4119
4-Chloro-3-methylphenol	<4800ug/kg dw		03/09/04			SA4119
2-Methylnaphthalene	2300ug/kg dw		03/09/04			SA4119
Hexachlorocyclopentadiene	<4800ug/kg dw		03/09/04			SA4119
2,4,6-Trichlorophenol	<4800ug/kg dw		03/09/04			SA4119
2,4,5-Trichlorophenol	<4800ug/kg dw		03/09/04			SA4119
2-Chloronaphthalene	<4800ug/kg dw		03/09/04			SA4119
2-Nitroaniline	<48,000ug/kg dw		03/09/04			SA4119
Dimethylphthalate	<4800ug/kg dw		03/09/04			SA4119
Acenaphthylene	580ug/kg dw		03/09/04			SA4119
2,6-Dinitrotoluene	<4800ug/kg dw		03/09/04			SA4119
3-Nitroaniline	<48,000ug/kg dw		03/09/04			SA4119
Acenaphthene	3000ug/kg dw		03/09/04			SA4119
2,4-Dinitrophenol	<48,000ug/kg dw		03/09/04			SA4119
4-Nitrophenol	<48,000ug/kg dw		03/09/04			SA4119
Dibenzofuran	1400ug/kg dw		03/09/04			SA4119
2,4-Dinitrotoluene	<4800ug/kg dw		03/09/04			SA4119
Diethylphthalate	<4800ug/kg dw		03/09/04			SA4119
4-Chlorophenylphenylether	<4800ug/kg dw		03/09/04			SA4119
Fluorene	3400ug/kg dw		03/09/04			SA4119
4-Nitroaniline	<48,000ug/kg dw		03/09/04			SA4119
2-Methyl-4,6-dinitrophenol	<48,000ug/kg dw		03/09/04			SA4119
n-Nitrosodiphenylamine	<4800ug/kg dw		03/09/04			SA4119
4-Bromophenylphenylether	<4800ug/kg dw		03/09/04			SA4119
Hexachlorobenzene	<4800ug/kg dw		03/09/04			SA4119
Pentachlorophenol	<9500ug/kg dw		03/09/04			SA4119
Phenanthrene	15,000ug/kg dw		03/09/04			SA4119
Anthracene	<4800ug/kg dw		03/09/04			SA4119

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06204001
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06204004 Mat:Soil 0333/BCI PHASE 2 SB21(4'-12') 02/27/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Carbazole	1200ug/kg dw		03/09/04			SA4119
Di-n-butylphthalate	>3700ug/kg dw		03/09/04			SA4119
Fluoranthene	13,000ug/kg dw		03/09/04			SA4119
Pyrene	11,000ug/kg dw		03/09/04			SA4119
Butylbenzylphthalate	<4800ug/kg dw		03/09/04			SA4119
3,3'-Dichlorobenzidine	<4800ug/kg dw		03/09/04			SA4119
Benzo(a)anthracene	5600ug/kg dw		03/09/04			SA4119
Chrysene	4100ug/kg dw		03/09/04			SA4119
bis(2-Ethylhexyl)phthalate	690ug/kg dw		03/09/04			SA4119
Di-n-octylphthalate	<4800ug/kg dw		03/09/04			SA4119
Benzo(b)fluoranthene	5700ug/kg dw		03/09/04			SA4119
Benzo(k)fluoranthene	1700ug/kg dw		03/09/04			SA4119
Benzo(a)pyrene	3600ug/kg dw		03/09/04			SA4119
Indeno(1,2,3-cd)pyrene	1600ug/kg dw		03/09/04			SA4119
Dibenzo(a,h)anthracene	<4800ug/kg dw		03/09/04			SA4119
Benzo(ghi)perylene	1600ug/kg dw		03/09/04			SA4119

ID:06204005 Mat:Soil 0333/BCI PHASE 2 SB22(4'-16') 02/27/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	76%		03/03/04			WM7216
Total Arsenic by Low Level	17mg/kg dw		03/05/04			MB6117
Total Barium	1100mg/kg dw		03/05/04			MB6116
Total Cadmium	5.5mg/kg dw		03/05/04			MB6116
Total Chromium	200mg/kg dw		03/05/04			MB6116
Total Lead	1900mg/kg dw		03/05/04			MB6116
Total Mercury	0.95mg/kg dw		03/07/04			MB6118
Total Selenium by Low Level	<0.66mg/kg dw		03/05/04			MB6117
Total Silver	<6.6mg/kg dw		03/05/04			MB6116
TCL Volatiles by EPA Method 8260						
Chloromethane	<660ug/kg dw		03/03/04	5		VM4802
Bromomethane	<660ug/kg dw		03/03/04	5		VM4802
Vinyl Chloride	<440ug/kg dw		03/03/04	5		VM4802
Chloroethane	<660ug/kg dw		03/03/04	5		VM4802
Methylene Chloride	<660ug/kg dw		03/03/04	5		VM4802
Acetone	<2200ug/kg dw		03/03/04	5		VM4802
Carbon Disulfide	<660ug/kg dw		03/03/04	5		VM4802
1,1-Dichloroethene	<660ug/kg dw		03/03/04	5		VM4802
1,1-Dichloroethane	<660ug/kg dw		03/03/04	5		VM4802
trans-1,2-Dichloroethene	<660ug/kg dw		03/03/04	5		VM4802
cis-1,2-Dichloroethene	<660ug/kg dw		03/03/04	5		VM4802
Chloroform	<660ug/kg dw		03/03/04	5		VM4802

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06204001
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06204005 Mat:Soil 0333/BCI PHASE 2 SB22(4'-16') 02/27/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
1,2-Dichloroethane	<660ug/kg dw		03/03/04		5	VM4802
2-Butanone	<2200ug/kg dw		03/03/04		5	VM4802
1,1,1-Trichloroethane	<660ug/kg dw		03/03/04		5	VM4802
Carbon Tetrachloride	<660ug/kg dw		03/03/04		5	VM4802
Bromodichloromethane	<660ug/kg dw		03/03/04		5	VM4802
1,2-Dichloropropane	<660ug/kg dw		03/03/04		5	VM4802
cis-1,3-Dichloropropene	<660ug/kg dw		03/03/04		5	VM4802
Trichloroethene	<660ug/kg dw		03/03/04		5	VM4802
Dibromochloromethane	<660ug/kg dw		03/03/04		5	VM4802
1,1,2-Trichloroethane	<660ug/kg dw		03/03/04		5	VM4802
Benzene	<660ug/kg dw		03/03/04		5	VM4802
trans-1,3-Dichloropropene	<660ug/kg dw		03/03/04		5	VM4802
Bromoform	<660ug/kg dw		03/03/04		5	VM4802
4-Methyl-2-pentanone	<2200ug/kg dw		03/03/04		5	VM4802
2-Hexanone	<2200ug/kg dw		03/03/04		5	VM4802
Tetrachloroethene	<660ug/kg dw		03/03/04		5	VM4802
1,1,2,2-Tetrachloroethane	<660ug/kg dw		03/03/04		5	VM4802
Toluene	<660ug/kg dw		03/03/04		5	VM4802
Chlorobenzene	<660ug/kg dw		03/03/04		5	VM4802
Ethylbenzene	930ug/kg dw		03/03/04			VM4802
Styrene	<660ug/kg dw		03/03/04		5	VM4802
m,p-Xylene	9700ug/kg dw		03/03/04			VM4802
o-Xylene	1800ug/kg dw		03/03/04			VM4802
TCL Semivolatiles by EPA Method 8270						
Phenol	<4400ug/kg dw		03/09/04			SA4119
bis(2-Chloroethyl)ether	<4400ug/kg dw		03/09/04			SA4119
2-Chlorophenol	<4400ug/kg dw		03/09/04			SA4119
1,3-Dichlorobenzene	<4400ug/kg dw		03/09/04			SA4119
1,4-Dichlorobenzene	<4400ug/kg dw		03/09/04			SA4119
1,2-Dichlorobenzene	<4400ug/kg dw		03/09/04			SA4119
2-Methylphenol	<4400ug/kg dw		03/09/04			SA4119
2,2'-Oxybis(1-Chloropropane)	<4400ug/kg dw		03/09/04			SA4119
4-Methylphenol	<4400ug/kg dw		03/09/04			SA4119
n-Nitrosodinpropylamine	<4400ug/kg dw		03/09/04			SA4119
Hexachloroethane	<4400ug/kg dw		03/09/04			SA4119
Nitrobenzene	<4400ug/kg dw		03/09/04			SA4119
Isophorone	<4400ug/kg dw		03/09/04			SA4119
2-Nitrophenol	<4400ug/kg dw		03/09/04			SA4119
2,4-Dimethylphenol	<4400ug/kg dw		03/09/04			SA4119
bis(2-Chloroethoxy)methane	<4400ug/kg dw		03/09/04			SA4119
2,4-Dichlorophenol	<4400ug/kg dw		03/09/04			SA4119
1,2,4-Trichlorobenzene	<4400ug/kg dw		03/09/04			SA4119
Naphthalene	4500ug/kg dw		03/09/04			SA4119

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06204001
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06204005 Mat:Soil 0333/BCI PHASE 2 SB22(4'-16') 02/27/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	XYLM#
4-Chloroaniline	<4400ug/kg dw		03/09/04			SA4119
Hexachlorobutadiene	<4400ug/kg dw		03/09/04			SA4119
4-Chloro-3-methylphenol	<4400ug/kg dw		03/09/04			SA4119
2-Methylnaphthalene	3500ug/kg dw		03/09/04			SA4119
Hexachlorocyclopentadiene	<4400ug/kg dw		03/09/04			SA4119
2,4,6-Trichlorophenol	<4400ug/kg dw		03/09/04			SA4119
2,4,5-Trichlorophenol	<4400ug/kg dw		03/09/04			SA4119
2-Chloronaphthalene	<4400ug/kg dw		03/09/04			SA4119
2-Nitroaniline	<44,000ug/kg dw		03/09/04			SA4119
Dimethylphthalate	<4400ug/kg dw		03/09/04			SA4119
Acenaphthylene	<4400ug/kg dw		03/09/04			SA4119
2,6-Dinitrotoluene	<4400ug/kg dw		03/09/04			SA4119
3-Nitroaniline	<44,000ug/kg dw		03/09/04			SA4119
Acenaphthene	3200ug/kg dw		03/09/04			SA4119
2,4-Dinitrophenol	<44,000ug/kg dw		03/09/04			SA4119
4-Nitrophenol	<44,000ug/kg dw		03/09/04			SA4119
Dibenzofuran	2200ug/kg dw		03/09/04			SA4119
2,4-Dinitrotoluene	<4400ug/kg dw		03/09/04			SA4119
Diethylphthalate	<4400ug/kg dw		03/09/04			SA4119
4-Chlorophenylphenylether	<4400ug/kg dw		03/09/04			SA4119
Fluorene	3600ug/kg dw		03/09/04			SA4119
4-Nitroaniline	6600ug/kg dw		03/09/04			SA4119
2-Methyl-4,6-dinitrophenol	<44,000ug/kg dw		03/09/04			SA4119
N-Nitrosodiphenylamine	<4400ug/kg dw		03/09/04			SA4119
4-Bromophenylphenylether	<4400ug/kg dw		03/09/04			SA4119
Hexachlorobenzene	<4400ug/kg dw		03/09/04			SA4119
Pentachlorophenol	<8800ug/kg dw		03/09/04			SA4119
Phenanthrene	21,000ug/kg dw		03/09/04			SA4119
Anthracene	5100ug/kg dw		03/09/04			SA4119
Carbazole	1900ug/kg dw		03/09/04			SA4119
Di-n-butylphthalate	1800ug/kg dw		03/09/04			SA4119
Fluoranthene	20,000ug/kg dw		03/09/04			SA4119
Pyrene	15,000ug/kg dw		03/09/04			SA4119
Butylbenzylphthalate	<4400ug/kg dw		03/09/04			SA4119
3,3'-Dichlorobenzidine	<4400ug/kg dw		03/09/04			SA4119
Benzo(a)anthracene	7800ug/kg dw		03/09/04			SA4119
Chrysene	6900ug/kg dw		03/09/04			SA4119
bis(2-Ethylhexyl)phthalate	940ug/kg dw		03/09/04			SA4119
Di-n-octylphthalate	<4400ug/kg dw		03/09/04			SA4119
Benzo(b)fluoranthene	8000ug/kg dw		03/09/04			SA4119
Benzo(k)fluoranthene	2600ug/kg dw		03/09/04			SA4119
Benzo(a)pyrene	5400ug/kg dw		03/09/04			SA4119
Indeno(1,2,3-cd)pyrene	2900ug/kg dw		03/09/04			SA4119
Dibenzo(a,h)anthracene	<4400ug/kg dw		03/09/04			SA4119

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06204001
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06204005 Mat:Soil 0333/BCI PHASE 2 SB22(4'-16') 02/27/04 C

	PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
	Benzo(ghi)perylene	2800ug/kg dw		03/09/04			SA4119

ID:06204006 Mat:Soil 0333/BCI PHASE 2 SB24&25(0'-4') COMP 02/27/04 C

	PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
	Percent Solids	80%		03/03/04			WE7216
Total	Arsenic by Low Level	9.3mg/kg dw		03/05/04			MB6117
Total	Barium	37mg/kg dw		03/05/04			MB6116
Total	Cadmium	4.6mg/kg dw		03/05/04			MB6116
Total	Chromium	23mg/kg dw		03/05/04			MB6116
Total	Lead	51mg/kg dw		03/05/04			MB6116
Total	Mercury	<0.26mg/kg dw		03/07/04			MB6118
Total	Selenium by Low Level	<0.63mg/kg dw		03/05/04			MB6117
Total	Silver	<6.3mg/kg dw		03/05/04			MB6116

ID:06204007 Mat:Soil 0333/BCI PHASE 2 SB27&28(0'-4') COMP 02/27/04 C

	PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
	Percent Solids	82%		03/03/04			WE7216
Total	Arsenic by Low Level	2.9mg/kg dw		03/05/04			MB6117
Total	Barium	40mg/kg dw		03/05/04			MB6116
Total	Cadmium	1.5mg/kg dw		03/05/04			MB6116
Total	Chromium	10.0mg/kg dw		03/05/04			MB6116
Total	Lead	23mg/kg dw		03/05/04			MB6116
Total	Mercury	<0.25mg/kg dw		03/07/04			MB6118
Total	Selenium by Low Level	0.95mg/kg dw		03/05/04			MB6117
Total	Silver	<6.1mg/kg dw		03/05/04			MB6116

ID:06204008 Mat:Soil 0333/BCI PHASE 2 SB26&29(0'-4') COMP 02/27/04 C

	PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
	Percent Solids	82%		03/03/04			WE7216
Total	Arsenic by Low Level	6.0mg/kg dw		03/05/04			MB6117
Total	Barium	84mg/kg dw		03/05/04			MB6116
Total	Cadmium	1.0mg/kg dw		03/05/04			MB6116
Total	Chromium	<6.1mg/kg dw		03/05/04			MB6116
Total	Lead	180mg/kg dw		03/05/04			MB6116
Total	Mercury	<0.25mg/kg dw		03/07/04			MB6118
Total	Selenium by Low Level	<0.61mg/kg dw		03/05/04			MB6117
Total	Silver	<6.1mg/kg dw		03/05/04			MB6116

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06204001
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06204009 Mat:Soil 0333/ECI PHASE 2 SB30,31,32(4'-10') 03/01/04 C

	PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
	Percent Solids	88%		03/03/04			WR7216
Total	Arsenic by Low Level	<1.2mg/kg dw		03/05/04			MB6117
Total	Barium	38mg/kg dw		03/05/04			MB6116
Total	Cadmium	1.3mg/kg dw		03/05/04			MB6116
Total	Chromium	8.9mg/kg dw		03/05/04			MB6116
Total	Lead	14mg/kg dw		03/05/04			MB6116
Total	Mercury	<0.23mg/kg dw		03/07/04			MB6118
Total	Selenium by Low Level	<0.57mg/kg dw		03/05/04			MB6117
Total	Silver	<5.7mg/kg dw		03/05/04			MB6116
	TCL Volatiles by EPA Method 8260						
	Chloromethane	<17ug/kg dw		03/04/04	5		VM4803
	Bromomethane	<17ug/kg dw		03/04/04	5		VM4803
	Vinyl Chloride	<11ug/kg dw		03/04/04	5		VM4803
	Chloroethane	<17ug/kg dw		03/04/04	5		VM4803
	Methylene Chloride	<17ug/kg dw		03/04/04	5		VM4803
	Acetone	<57ug/kg dw		03/04/04	5		VM4803
	Carbon Disulfide	<17ug/kg dw		03/04/04	5		VM4803
	1,1-Dichloroethene	<17ug/kg dw		03/04/04	5		VM4803
	1,1-Dichloroethane	<17ug/kg dw		03/04/04	5		VM4803
	trans-1,2-Dichloroethene	<17ug/kg dw		03/04/04	5		VM4803
	cis-1,2-Dichloroethene	<17ug/kg dw		03/04/04	5		VM4803
	Chloroform	<17ug/kg dw		03/04/04	5		VM4803
	1,2-Dichloroethane	<17ug/kg dw		03/04/04	5		VM4803
	2-Butanone	<57ug/kg dw		03/04/04	5		VM4803
	1,1,1-Trichloroethane	<17ug/kg dw		03/04/04	5		VM4803
	Carbon Tetrachloride	<17ug/kg dw		03/04/04	5		VM4803
	Bromodichloromethane	<17ug/kg dw		03/04/04	5		VM4803
	1,2-Dichloropropane	<17ug/kg dw		03/04/04	5		VM4803
	cis-1,3-Dichloropropene	<17ug/kg dw		03/04/04	5		VM4803
	Trichloroethene	100ug/kg dw		03/04/04			VM4803
	Dibromochloromethane	<17ug/kg dw		03/04/04	5		VM4803
	1,1,2-Trichloroethane	<17ug/kg dw		03/04/04	5		VM4803
	Benzene	<17ug/kg dw		03/04/04	5		VM4803
	trans-1,3-Dichloropropene	<17ug/kg dw		03/04/04	5		VM4803
	Bromoform	<17ug/kg dw		03/04/04	5		VM4803
	4-Methyl-2-pentanone	<57ug/kg dw		03/04/04	5		VM4803
	2-Hexanone	<57ug/kg dw		03/04/04	5		VM4803
	Tetrachloroethene	<17ug/kg dw		03/04/04	5		VM4803
	1,1,2,2-Tetrachloroethane	<17ug/kg dw		03/04/04	5		VM4803
	Toluene	<17ug/kg dw		03/04/04	5		VM4803
	Chlorobenzene	<17ug/kg dw		03/04/04	5		VM4803
	Ethylbenzene	<17ug/kg dw		03/04/04	5		VM4803
	Styrene	<17ug/kg dw		03/04/04	5		VM4803

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06204001
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06204009 Mat:Soil 0333/BCI PHASE 2 SB30,31,32(4'-10') 03/01/04 C

	PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
	m,p-Xylene	<17ug/kg dw		03/04/04		5	VM4803
	o-Xylene	<17ug/kg dw		03/04/04		5	VM4803

ID:06204010 Mat:Soil 0333/BCI PHASE 2 SB33(0'-4') 03/01/04 C

	PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
	Percent Solids	73%		03/03/04			WE7216
Total	Arsenic by Low Level	24mg/kg dw		03/05/04			MB6117
Total	Barium	290mg/kg dw		03/05/04			MB6116
Total	Cadmium	5.6mg/kg dw		03/05/04			MB6116
Total	Chromium	25mg/kg dw		03/05/04			MB6116
Total	Lead	210mg/kg dw		03/05/04			MB6116
Total	Mercury	0.37mg/kg dw		03/07/04			MB6118
Total	Selenium by Low Level	7.5mg/kg dw		03/05/04			MB6117
Total	Silver	<6.8mg/kg dw		03/05/04			MB6116
	TCL Volatiles by EPA Method 8260						
	Chloromethane	<660ug/kg dw		03/03/04		5	VM4802
	Bromomethane	<660ug/kg dw		03/03/04		5	VM4802
	Vinyl Chloride	<440ug/kg dw		03/03/04		5	VM4802
	Chloroethane	<660ug/kg dw		03/03/04		5	VM4802
	Methylene Chloride	<660ug/kg dw		03/03/04		5	VM4802
	Acetone	<2200ug/kg dw		03/03/04		5	VM4802
	Carbon Disulfide	<660ug/kg dw		03/03/04		5	VM4802
	1,1-Dichloroethene	<660ug/kg dw		03/03/04		5	VM4802
	1,1-Dichloroethane	<660ug/kg dw		03/03/04		5	VM4802
	trans-1,2-Dichloroethene	<660ug/kg dw		03/03/04		5	VM4802
	cis-1,2-Dichloroethene	<660ug/kg dw		03/03/04		5	VM4802
	Chloroform	<660ug/kg dw		03/03/04		5	VM4802
	1,2-Dichloroethane	<660ug/kg dw		03/03/04		5	VM4802
	2-Butanone	<2200ug/kg dw		03/03/04		5	VM4802
	1,1,1-Trichloroethane	<660ug/kg dw		03/03/04		5	VM4802
	Carbon Tetrachloride	<660ug/kg dw		03/03/04		5	VM4802
	Bromodichloromethane	<660ug/kg dw		03/03/04		5	VM4802
	1,2-Dichloropropane	<660ug/kg dw		03/03/04		5	VM4802
	cis-1,3-Dichloropropene	<660ug/kg dw		03/03/04		5	VM4802
	Trichloroethene	<660ug/kg dw		03/03/04		5	VM4802
	Dibromochloromethane	<660ug/kg dw		03/03/04		5	VM4802
	1,1,2-Trichloroethane	<660ug/kg dw		03/03/04		5	VM4802
	Benzene	<660ug/kg dw		03/03/04		5	VM4802
	trans-1,3-Dichloropropene	<660ug/kg dw		03/03/04		5	VM4802
	Bromoform	<660ug/kg dw		03/03/04		5	VM4802
	4-Methyl-2-pentanone	<2200ug/kg dw		03/03/04		5	VM4802

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06204001
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06204010 Mat:Soil 0333/ECI PHASE 2 SB33(0'-4') 03/01/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
2-Hexanone	<2200ug/kg dw		03/03/04		5	VM4802
Tetrachloroethene	<660ug/kg dw		03/03/04		5	VM4802
1,1,2,2-Tetrachloroethane	<660ug/kg dw		03/03/04		5	VM4802
Toluene	<660ug/kg dw		03/03/04		5	VM4802
Chlorobenzene	<660ug/kg dw		03/03/04		5	VM4802
Ethylbenzene	<660ug/kg dw		03/03/04		5	VM4802
Styrene	<660ug/kg dw		03/03/04		5	VM4802
m,p-Xylene	7600ug/kg dw		03/03/04			VM4802
o-Xylene	<660ug/kg dw		03/03/04		5	VM4802
TCL Semivolatiles by EPA Method 8270						
Phenol	<4600ug/kg dw		03/10/04			SA4119
bis(2-Chloroethyl)ether	<4600ug/kg dw		03/10/04			SA4119
2-Chlorophenol	<4600ug/kg dw		03/10/04			SA4119
1,3-Dichlorobenzene	<4600ug/kg dw		03/10/04			SA4119
1,4-Dichlorobenzene	<4600ug/kg dw		03/10/04			SA4119
1,2-Dichlorobenzene	<4600ug/kg dw		03/10/04			SA4119
2-Methylphenol	<4600ug/kg dw		03/10/04			SA4119
2,2'-Oxybis(1-Chloropropane)	<4600ug/kg dw		03/10/04			SA4119
4-Methylphenol	<4600ug/kg dw		03/10/04			SA4119
n-Nitrosodinpropylamine	<4600ug/kg dw		03/10/04			SA4119
Hexachloroethane	<4600ug/kg dw		03/10/04			SA4119
Nitrobenzene	<4600ug/kg dw		03/10/04			SA4119
Isophorone	<4600ug/kg dw		03/10/04			SA4119
2-Nitrophenol	<4600ug/kg dw		03/10/04			SA4119
2,4-Dimethylphenol	<4600ug/kg dw		03/10/04			SA4119
bis(2-Chloroethoxy)methane	<4600ug/kg dw		03/10/04			SA4119
2,4-Dichlorophenol	<4600ug/kg dw		03/10/04			SA4119
1,2,4-Trichlorobenzene	<4600ug/kg dw		03/10/04			SA4119
Naphthalene	<4600ug/kg dw		03/10/04			SA4119
4-Chloroaniline	<4600ug/kg dw		03/10/04			SA4119
Hexachlorobutadiene	<4600ug/kg dw		03/10/04			SA4119
4-Chloro-3-methylphenol	<4600ug/kg dw		03/10/04			SA4119
2-Methylnaphthalene	1500ug/kg dw		03/10/04			SA4119
Hexachlorocyclopentadiene	<4600ug/kg dw		03/10/04			SA4119
2,4,6-Trichlorophenol	<4600ug/kg dw		03/10/04			SA4119
2,4,5-Trichlorophenol	<4600ug/kg dw		03/10/04			SA4119
2-Chloronaphthalene	<4600ug/kg dw		03/10/04			SA4119
2-Nitroaniline	<46,000ug/kg dw		03/10/04			SA4119
Dimethylphthalate	<4600ug/kg dw		03/10/04			SA4119
Acenaphthylene	<4600ug/kg dw		03/10/04			SA4119
2,6-Dinitrotoluene	<4600ug/kg dw		03/10/04			SA4119
3-Nitroaniline	<46,000ug/kg dw		03/10/04			SA4119
Acenaphthene	<4600ug/kg dw		03/10/04			SA4119

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06204001
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06204010 Mat:Soil 0333/BCI PHASE 2 SB33(0'-4') 03/01/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
2,4-Dinitrophenol	<46,000ug/kg dw		03/10/04			SA4119
4-Nitrophenol	<46,000ug/kg dw		03/10/04			SA4119
Dibenzofuran	<4600ug/kg dw		03/10/04			SA4119
2,4-Dinitrotoluene	<4600ug/kg dw		03/10/04			SA4119
Diethylphthalate	<4600ug/kg dw		03/10/04			SA4119
4-Chlorophenylphenylether	<4600ug/kg dw		03/10/04			SA4119
Fluorene	<4600ug/kg dw		03/10/04			SA4119
4-Nitroaniline	<46,000ug/kg dw		03/10/04			SA4119
2-Methyl-4,6-dinitrophenol	<46,000ug/kg dw		03/10/04			SA4119
n-Nitrosodiphenylamine	<4600ug/kg dw		03/10/04			SA4119
4-Bromophenylphenylether	<4600ug/kg dw		03/10/04			SA4119
Hexachlorobenzene	<4600ug/kg dw		03/10/04			SA4119
Pentachlorophenol	<9100ug/kg dw		03/10/04			SA4119
Phenanthrene	530ug/kg d		03/10/04			SA4119
Anthracene	<4600ug/kg dw		03/10/04			SA4119
Carbazole	<4600ug/kg dw		03/10/04			SA4119
Di-n-butylphthalate	16,000ug/kg dw		03/10/04			SA4119
Fluoranthene	680ug/kg dw		03/10/04			SA4119
Pyrene	1100ug/kg dw		03/10/04			SA4119
Butylbenzylphthalate	<4600ug/kg dw		03/10/04			SA4119
3,3'-Dichlorobenzidine	<4600ug/kg dw		03/10/04			SA4119
Benzo(a)anthracene	500ug/kg dw		03/10/04			SA4119
Chrysene	560ug/kg dw		03/10/04			SA4119
bis(2-Ethylhexyl)phthalate	1700ug/kg dw		03/10/04			SA4119
Di-n-octylphthalate	<4600ug/kg dw		03/10/04			SA4119
Benzo(b)fluoranthene	930ug/kg dw		03/10/04			SA4119
Benzo(k)fluoranthene	<4600ug/kg dw		03/10/04			SA4119
Benzo(a)pyrene	<4600ug/kg dw		03/10/04			SA4119
Indeno(1,2,3-cd)pyrene	<4600ug/kg dw		03/10/04			SA4119
Dibenzo(a,h)anthracene	<4600ug/kg dw		03/10/04			SA4119
Benzo(ghi)perylene	<4600ug/kg dw		03/10/04			SA4119

ID:06204011 Mat:Soil 0333/BCI PHASE 2 SB35(4'-10') 03/01/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	83%		03/03/04			WK7216
Total Arsenic by Low Level	2.5mg/kg dw		03/05/04			MB6117
Total Barium	66mg/kg dw		03/05/04			MB6116
Total Cadmium	2.2mg/kg dw		03/05/04			MB6116
Total Chromium	16mg/kg dw		03/05/04			MB6116
Total Lead	<12mg/kg dw		03/05/04			MB6116
Total Mercury	<0.25mg/kg dw		03/07/04			MB6118
Total Selenium by Low Level	<0.61mg/kg dw		03/05/04			MB6117

dw = Dry Weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06204001
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06204011 Mat:Soil 0333/BCI PHASE 2 SB35(4'-10') 03/01/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Total Silver	<6mg/kg dw		03/05/04			MM6116
TCL Volatiles by EPA Method 8260						
Chloromethane	<30,000ug/kg dw		03/04/04		5	VM4803
Bromomethane	<30,000ug/kg dw		03/04/04		5	VM4803
Vinyl Chloride	<20,000ug/kg dw		03/04/04		5	VM4803
Chloroethane	<30,000ug/kg dw		03/04/04		5	VM4803
Methylene Chloride	<30,000ug/kg dw		03/04/04		5	VM4803
Acetone	<100,000ug/kg d		03/04/04		5	VM4803
Carbon Disulfide	<30,000ug/kg dw		03/04/04		5	VM4803
1,1-Dichloroethene	<30,000ug/kg dw		03/04/04		5	VM4803
1,1-Dichloroethane	<30,000ug/kg dw		03/04/04		5	VM4803
trans-1,2-Dichloroethene	<30,000ug/kg dw		03/04/04		5	VM4803
cis-1,2-Dichloroethene	<30,000ug/kg dw		03/04/04		5	VM4803
Chloroform	<30,000ug/kg dw		03/04/04		5	VM4803
1,2-Dichloroethane	<30,000ug/kg dw		03/04/04		5	VM4803
2-Butanone	<100,000ug/kg d		03/04/04		5	VM4803
1,1,1-Trichloroethane	<30,000ug/kg dw		03/04/04		5	VM4803
Carbon Tetrachloride	<30,000ug/kg dw		03/04/04		5	VM4803
Bromodichloromethane	<30,000ug/kg dw		03/04/04		5	VM4803
1,2-Dichloropropane	<30,000ug/kg dw		03/04/04		5	VM4803
cis-1,3-Dichloropropene	<30,000ug/kg dw		03/04/04		5	VM4803
Trichloroethene	250,000ug/kg dw		03/04/04			VM4803
Dibromochloromethane	<30,000ug/kg dw		03/04/04		5	VM4803
1,1,2-Trichloroethane	<30,000ug/kg dw		03/04/04		5	VM4803
Benzene	<30,000ug/kg dw		03/04/04		5	VM4803
trans-1,3-Dichloropropene	<30,000ug/kg dw		03/04/04		5	VM4803
Bromoform	<30,000ug/kg dw		03/04/04		5	VM4803
4-Methyl-2-pentanone	<100,000ug/kg d		03/04/04		5	VM4803
2-Hexanone	<100,000ug/kg d		03/04/04		5	VM4803
Tetrachloroethene	<30,000ug/kg dw		03/04/04		5	VM4803
1,1,2,2-Tetrachloroethane	<30,000ug/kg dw		03/04/04		5	VM4803
Toluene	<30,000ug/kg dw		03/04/04		5	VM4803
Chlorobenzene	<30,000ug/kg dw		03/04/04		5	VM4803
Ethylbenzene	<30,000ug/kg dw		03/04/04		5	VM4803
Styrene	<30,000ug/kg dw		03/04/04		5	VM4803
m,p-Xylene	<30,000ug/kg dw		03/04/04		5	VM4803
o-Xylene	<30,000ug/kg dw		03/04/04		5	VM4803

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06204001
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06204012 Mat:Soil 0333/BCI PHASE 2 SB36(8'-9') 03/01/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	82%		03/03/04			WE7216
TCL Semivolatiles by EPA Method 8270						
Phenol	<410ug/kg dw		03/09/04			SA4119
bis(2-Chloroethyl)ether	<410ug/kg dw		03/09/04			SA4119
2-Chlorophenol	<410ug/kg dw		03/09/04			SA4119
1,3-Dichlorobenzene	<410ug/kg dw		03/09/04			SA4119
1,4-Dichlorobenzene	<410ug/kg dw		03/09/04			SA4119
1,2-Dichlorobenzene	<410ug/kg dw		03/09/04			SA4119
2-Methylphenol	<410ug/kg dw		03/09/04			SA4119
2,2'-Oxybis(1-Chloropropane)	<410ug/kg dw		03/09/04			SA4119
4-Methylphenol	<410ug/kg dw		03/09/04			SA4119
n-Nitrosodinpropylamine	<410ug/kg dw		03/09/04			SA4119
Hexachloroethane	<410ug/kg dw		03/09/04			SA4119
Nitrobenzene	<410ug/kg dw		03/09/04			SA4119
Isophorone	<410ug/kg dw		03/09/04			SA4119
2-Nitrophenol	<410ug/kg dw		03/09/04			SA4119
2,4-Dimethylphenol	<410ug/kg dw		03/09/04			SA4119
bis(2-Chloroethoxy)methane	<410ug/kg dw		03/09/04			SA4119
2,4-Dichlorophenol	<410ug/kg dw		03/09/04			SA4119
1,2,4-Trichlorobenzene	<410ug/kg dw		03/09/04			SA4119
Naphthalene	<410ug/kg dw		03/09/04			SA4119
4-Chloroaniline	<410ug/kg dw		03/09/04			SA4119
Hexachlorobutadiene	<410ug/kg dw		03/09/04			SA4119
4-Chloro-3-methylphenol	<410ug/kg dw		03/09/04			SA4119
2-Methylnaphthalene	<410ug/kg dw		03/09/04			SA4119
Hexachlorocyclopentadiene	<410ug/kg dw		03/09/04			SA4119
2,4,6-Trichlorophenol	<410ug/kg dw		03/09/04			SA4119
2,4,5-Trichlorophenol	<410ug/kg dw		03/09/04			SA4119
2-Chloronaphthalene	<410ug/kg dw		03/09/04			SA4119
2-Nitroaniline	<4100ug/kg dw		03/09/04			SA4119
Dimethylphthalate	<410ug/kg dw		03/09/04			SA4119
Acenaphthylene	<410ug/kg dw		03/09/04			SA4119
2,6-Dinitrotoluene	<410ug/kg dw		03/09/04			SA4119
3-Nitroaniline	<4100ug/kg dw		03/09/04			SA4119
Acenaphthene	<410ug/kg dw		03/09/04			SA4119
2,4-Dinitrophenol	<4100ug/kg dw		03/09/04			SA4119
4-Nitrophenol	<4100ug/kg dw		03/09/04			SA4119
Dibenzofuran	430ug/kg dw		03/09/04			SA4119
2,4-Dinitrotoluene	<410ug/kg dw		03/09/04			SA4119
Diethylphthalate	<410ug/kg dw		03/09/04			SA4119
4-Chlorophenylphenylether	<410ug/kg dw		03/09/04			SA4119
Fluorene	480ug/kg dw		03/09/04			SA4119
4-Nitroaniline	<4100ug/kg dw		03/09/04			SA4119

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06204001
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06204012 Mat:Soil 0333/BCI PHASE 2 SB36(8'-9') 03/01/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
2-Methyl-4,6-dinitrophenol	<4100ug/kg dw		03/09/04			SA4119
n-Nitrosodiphenylamine	<410ug/kg dw		03/09/04			SA4119
4-Bromophenylphenylether	<410ug/kg dw		03/09/04			SA4119
Hexachlorobenzene	<410ug/kg dw		03/09/04			SA4119
Pentachlorophenol	<810ug/kg dw		03/09/04			SA4119
Phenanthrene	2700ug/kg dw		03/09/04			SA4119
Anthracene	590ug/kg dw		03/09/04			SA4119
Carbazole	<410ug/kg dw		03/09/04			SA4119
Di-n-butylphthalate	<410ug/kg dw		03/09/04			SA4119
Fluoranthene	2300ug/kg dw		03/09/04			SA4119
Pyrene	1800ug/kg dw		03/09/04			SA4119
Butylbenzylphthalate	<410ug/kg dw		03/09/04			SA4119
3,3'-Dichlorobenzidine	<410ug/kg dw		03/09/04			SA4119
Benzo(a)anthracene	890ug/kg dw		03/09/04			SA4119
Chrysene	750ug/kg dw		03/09/04			SA4119
bis(2-Ethylhexyl)phthalate	<410ug/kg dw		03/09/04			SA4119
Di-n-octylphthalate	<410ug/kg dw		03/09/04			SA4119
Benzo(b)fluoranthene	930ug/kg dw		03/09/04			SA4119
Benzo(k)fluoranthene	<410ug/kg dw		03/09/04			SA4119
Benzo(a)pyrene	630ug/kg dw		03/09/04			SA4119
Indeno(1,2,3-cd)pyrene	<410ug/kg dw		03/09/04			SA4119
Dibenzo(a,h)anthracene	<410ug/kg dw		03/09/04			SA4119
Benzo(ghi)perylene	<410ug/kg dw		03/09/04			SA4119

ID:06204013 Mat:Soil 0333/BCI PHASE 2 SB37(4'-5.5') 03/01/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	87%		03/03/04			WE7216
Total Arsenic by Low Level	<1.2mg/kg dw		03/05/04			MB6117
Total Barium	59mg/kg dw		03/05/04			MB6116
Total Cadmium	2.1mg/kg dw		03/05/04			MB6116
Total Chromium	14mg/kg dw		03/05/04			MB6116
Total Lead	<11mg/kg dw		03/05/04			MB6116
Total Mercury	<0.23mg/kg dw		03/07/04			MB6118
Total Selenium by Low Level	<0.58mg/kg dw		03/05/04			MB6117
Total Silver	<5.7mg/kg dw		03/05/04			MB6116
TCL Volatiles by EPA Method 8260						
Chloromethane	<290ug/kg dw		03/04/04	5		VM4803
Bromomethane	<290ug/kg dw		03/04/04	5		VM4803
Vinyl Chloride	<190ug/kg dw		03/04/04	5		VM4803
Chloroethane	<290ug/kg dw		03/04/04	5		VM4803
Methylene Chloride	<290ug/kg dw		03/04/04	5		VM4803

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06204001
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06204013 Mat:Soil 0333/BCI PHASE 2 SB37(4'-5.5') 03/01/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Acetone	<960ug/kg dw		03/04/04	5		VM4803
Carbon Disulfide	<290ug/kg dw		03/04/04	5		VM4803
1,1-Dichloroethene	<290ug/kg dw		03/04/04	5		VM4803
1,1-Dichloroethane	<290ug/kg dw		03/04/04	5		VM4803
trans-1,2-Dichloroethene	<290ug/kg dw		03/04/04	5		VM4803
cis-1,2-Dichloroethene	<290ug/kg dw		03/04/04	5		VM4803
Chloroform	<290ug/kg dw		03/04/04	5		VM4803
1,2-Dichloroethane	<290ug/kg dw		03/04/04	5		VM4803
2-Butanone	<960ug/kg dw		03/04/04	5		VM4803
1,1,1-Trichloroethane	<290ug/kg dw		03/04/04	5		VM4803
Carbon Tetrachloride	<290ug/kg dw		03/04/04	5		VM4803
Bromodichloromethane	<290ug/kg dw		03/04/04	5		VM4803
1,2-Dichloropropane	<290ug/kg dw		03/04/04	5		VM4803
cis-1,3-Dichloropropene	<290ug/kg dw		03/04/04	5		VM4803
Trichloroethene	620ug/kg dw		03/04/04			VM4803
Dibromochloromethane	<290ug/kg dw		03/04/04	5		VM4803
1,1,2-Trichloroethane	<290ug/kg dw		03/04/04	5		VM4803
Benzene	<290ug/kg dw		03/04/04	5		VM4803
trans-1,3-Dichloropropene	<290ug/kg dw		03/04/04	5		VM4803
Bromoform	<290ug/kg dw		03/04/04	5		VM4803
4-Methyl-2-pentanone	<960ug/kg dw		03/04/04	5		VM4803
2-Hexanone	<960ug/kg dw		03/04/04	5		VM4803
Tetrachloroethane	<290ug/kg dw		03/04/04	5		VM4803
1,1,2,2-Tetrachloroethane	<290ug/kg dw		03/04/04	5		VM4803
Toluene	<290ug/kg dw		03/04/04	5		VM4803
Chlorobenzene	<290ug/kg dw		03/04/04	5		VM4803
Ethylbenzene	<290ug/kg dw		03/04/04	5		VM4803
Styrene	<290ug/kg dw		03/04/04	5		VM4803
m,p-Xylene	<290ug/kg dw		03/04/04	5		VM4803
o-Xylene	<290ug/kg dw		03/04/04	5		VM4803

ID:06204014 Mat:Soil 0333/BCI PHASE 2 SB39(8'-8.5') 03/01/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	85%		03/03/04			MS7216
Total Arsenic by Low Level	<1.2mg/kg dw		03/05/04			MB6117
Total Barium	37mg/kg dw		03/05/04			MB6116
Total Cadmium	1.5mg/kg dw		03/05/04			MB6116
Total Chromium	10.0mg/kg dw		03/05/04			MB6116
Total Lead	29mg/kg dw		03/05/04			MB6116
Total Mercury	<0.25mg/kg dw		03/07/04			MB6118
Total Selenium by Low Level	<0.59mg/kg dw		03/05/04			MB6117
Total Silver	<5.9mg/kg dw		03/05/04			MB6116

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06204001
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06204014 Mat:Soil 0333/BCI PHASE 2 SB39(8'-8.5') 03/01/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	84%		03/03/04			WE7216
Total Cadmium	3.3mg/kg dw		03/05/04			MB6116
Total Lead	110mg/kg dw		03/05/04			MB6116

ID:06204015 Mat:Soil 0333/BCI PHASE 2 SB40(0'-4') 03/01/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	84%		03/03/04			WE7216
Total Cadmium	3.3mg/kg dw		03/05/04			MB6116
Total Lead	110mg/kg dw		03/05/04			MB6116

ID:06204016 Mat:Soil 0333/BCI PHASE 2 SB41(0'-6') 03/01/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	89%		03/03/04			WE7216
Total Cadmium	1.6mg/kg dw		03/05/04			MB6116
Total Lead	<11mg/kg dw		03/05/04			MB6116

ID:06204017 Mat:Soil 0333/BCI PHASE 2 SB42(0'-8') 03/01/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	79%		03/03/04			WE7216
Total Cadmium	2.5mg/kg dw		03/05/04			MB6116
Total Lead	200mg/kg dw		03/05/04			MB6116

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06504043
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06504043 Mat:Soil BCI PHASE II/0333 ISB2(4'-8') 03/03/04 C

	PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
	Percent Solids	85%		03/09/04			ME7251
Total	Arsenic by Low Level	12mg/kg dw		03/08/04			MB6120
Total	Barium	82mg/kg dw		03/08/04			MB6119
Total	Cadmium	1.7mg/kg dw		03/08/04			MB6119
Total	Chromium	11mg/kg dw		03/08/04			MB6119
Total	Lead	92mg/kg dw		03/08/04			MB6119
Total	Mercury	0.42mg/kg dw		03/07/04			MB6118
Total	Selenium by Low Level	<0.55mg/kg dw		03/08/04			MB6120
Total	Silver	<5.5mg/kg dw		03/08/04			MB6119
	TCL Volatiles by EPA Method 8260						
	Chloromethane	<4ug/kg dw		03/08/04			VM4805
	Bromomethane	<4ug/kg dw		03/08/04			VM4805
	Vinyl Chloride	<2ug/kg dw		03/08/04			VM4805
	Chloroethane	<4ug/kg dw		03/08/04			VM4805
	Methylene Chloride	9ug/kg dw		03/08/04		11	VM4805
	Acetone	<12ug/kg dw		03/08/04			VM4805
	Carbon Disulfide	<4ug/kg dw		03/08/04			VM4805
	1,1-Dichloroethene	<4ug/kg dw		03/08/04			VM4805
	1,1-Dichloroethane	<4ug/kg dw		03/08/04			VM4805
	trans-1,2-Dichloroethene	<4ug/kg dw		03/08/04			VM4805
	cis-1,2-Dichloroethene	<4ug/kg dw		03/08/04			VM4805
	Chloroform	<4ug/kg dw		03/08/04			VM4805
	1,2-Dichloroethane	<4ug/kg dw		03/08/04			VM4805
	2-Butanone	<12ug/kg dw		03/08/04			VM4805
	1,1,1-Trichloroethane	<4ug/kg dw		03/08/04			VM4805
	Carbon Tetrachloride	<4ug/kg dw		03/08/04			VM4805
	Bromodichloromethane	<4ug/kg dw		03/08/04			VM4805
	1,2-Dichloropropane	<4ug/kg dw		03/08/04			VM4805
	cis-1,3-Dichloropropene	<4ug/kg dw		03/08/04			VM4805
	Trichloroethene	<4ug/kg dw		03/08/04			VM4805
	Dibromochloromethane	<4ug/kg dw		03/08/04			VM4805
	1,1,2-Trichloroethane	<4ug/kg dw		03/08/04			VM4805
	Benzene	<4ug/kg dw		03/08/04			VM4805
	trans-1,3-Dichloropropene	<4ug/kg dw		03/08/04			VM4805
	Bromoform	<4ug/kg dw		03/08/04			VM4805
	4-Methyl-2-pentanone	<12ug/kg dw		03/08/04			VM4805
	2-Hexanone	<12ug/kg dw		03/08/04			VM4805
	Tetrachloroethene	<4ug/kg dw		03/08/04			VM4805
	1,1,2,2-Tetrachloroethane	<4ug/kg dw		03/08/04			VM4805
	Toluene	<4ug/kg dw		03/08/04			VM4805
	Chlorobenzene	<4ug/kg dw		03/08/04			VM4805
	Ethylbenzene	<4ug/kg dw		03/08/04			VM4805
	Styrene	<4ug/kg dw		03/08/04			VM4805

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06504043
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06504043 Mat:Soil BCT PHASE II/0333 ISB2(4'-8') 03/03/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
m,p-Xylene	<4ug/kg dw		03/08/04			VM4805
o-Xylene	<4ug/kg dw		03/08/04			VM4805
TCL Semivolatiles by EPA Method 8270						
Phenol	<390ug/kg dw		03/08/04			SA4119
bis(2-Chloroethyl)ether	<390ug/kg dw		03/08/04			SA4119
2-Chlorophenol	<390ug/kg dw		03/08/04			SA4119
1,3-Dichlorobenzene	<390ug/kg dw		03/08/04			SA4119
1,4-Dichlorobenzene	<390ug/kg dw		03/08/04			SA4119
1,2-Dichlorobenzene	<390ug/kg dw		03/08/04			SA4119
2-Methylphenol	<390ug/kg dw		03/08/04			SA4119
2,2'-Oxybis(1-Chloropropane)	<390ug/kg dw		03/08/04			SA4119
4-Methylphenol	<390ug/kg dw		03/08/04			SA4119
n-Nitrosodinpropylamine	<390ug/kg dw		03/08/04			SA4119
Hexachloroethane	<390ug/kg dw		03/08/04			SA4119
Nitrobenzene	<390ug/kg dw		03/08/04			SA4119
Isophorone	<390ug/kg dw		03/08/04			SA4119
2-Nitrophenol	<390ug/kg dw		03/08/04			SA4119
2,4-Dimethylphenol	<390ug/kg dw		03/08/04			SA4119
bis(2-Chloroethoxy)methane	<390ug/kg dw		03/08/04			SA4119
2,4-Dichlorophenol	<390ug/kg dw		03/08/04			SA4119
1,2,4-Trichlorobenzene	<390ug/kg dw		03/08/04			SA4119
Naphthalene	<390ug/kg dw		03/08/04			SA4119
4-Chloroaniline	<390ug/kg dw		03/08/04			SA4119
Hexachlorobutadiene	<390ug/kg dw		03/08/04			SA4119
4-Chloro-3-methylphenol	<390ug/kg dw		03/08/04			SA4119
2-Methylnaphthalene	<390ug/kg dw		03/08/04			SA4119
Hexachlorocyclopentadiene	<390ug/kg dw		03/08/04			SA4119
2,4,6-Trichlorophenol	<390ug/kg dw		03/08/04			SA4119
2,4,5-Trichlorophenol	<390ug/kg dw		03/08/04			SA4119
2-Chloronaphthalene	<390ug/kg dw		03/08/04			SA4119
2-Nitroaniline	<3900ug/kg dw		03/08/04			SA4119
Dimethylphthalate	<390ug/kg dw		03/08/04			SA4119
Acenaphthylene	<390ug/kg dw		03/08/04			SA4119
2,6-Dinitrotoluene	<390ug/kg dw		03/08/04			SA4119
3-Nitroaniline	<3900ug/kg dw		03/08/04			SA4119
Acenaphthene	<390ug/kg dw		03/08/04			SA4119
2,4-Dinitrophenol	<3900ug/kg dw		03/08/04			SA4119
4-Nitrophenol	<3900ug/kg dw		03/08/04			SA4119
Dibenzofuran	<390ug/kg dw		03/08/04			SA4119
2,4-Dinitrotoluene	<390ug/kg dw		03/08/04			SA4119
Diethylphthalate	<390ug/kg dw		03/08/04			SA4119
4-Chlorophenylphenylether	<390ug/kg dw		03/08/04			SA4119
Fluorene	<390ug/kg dw		03/08/04			SA4119

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06504043
Client I.D.: ENVIROMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06504043 Mat:Soil BCI PHASE II/0333 ISB2(4'-8') 03/03/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
4-Nitroaniline	<3900ug/kg dw		03/08/04			SA4119
2-Methyl-4,6-dinitrophenol	<3900ug/kg dw		03/08/04			SA4119
n-Nitrosodiphenylamine	<390ug/kg dw		03/08/04			SA4119
4-Bromophenylphenylether	<390ug/kg dw		03/08/04			SA4119
Hexachlorobenzene	<390ug/kg dw		03/08/04			SA4119
Pentachlorophenol	<780ug/kg dw		03/08/04			SA4119
Phenanthrene	<390ug/kg dw		03/08/04			SA4119
Anthracene	<390ug/kg dw		03/08/04			SA4119
Carbazole	<390ug/kg dw		03/08/04			SA4119
Di-n-butylphthalate	<390ug/kg dw		03/08/04			SA4119
Fluoranthene	<390ug/kg dw		03/08/04			SA4119
Pyrene	<390ug/kg dw		03/08/04			SA4119
Butylbenzylphthalate	<390ug/kg dw		03/08/04			SA4119
3,3'-Dichlorobenzidine	<390ug/kg dw		03/08/04			SA4119
Benzo(a)anthracene	<390ug/kg dw		03/08/04			SA4119
Chrysene	<390ug/kg dw		03/08/04			SA4119
bis(2-Ethylhexyl)phthalate	<390ug/kg dw		03/08/04			SA4119
Di-n-ocetylphthalate	<390ug/kg dw		03/08/04			SA4119
Benzo(b)fluoranthene	<390ug/kg dw		03/08/04			SA4119
Benzo(k)fluoranthene	<390ug/kg dw		03/08/04			SA4119
Benzo(a)pyrene	<390ug/kg dw		03/08/04			SA4119
Indeno(1,2,3-cd)pyrene	<390ug/kg dw		03/08/04			SA4119
Dibenzo(a,h)anthracene	<390ug/kg dw		03/08/04			SA4119
Benzo(ghi)perylene	<390ug/kg dw		03/08/04			SA4119

ID:06504044 Mat:Soil BCI PHASE II/0333 ISB3(0'-8') 03/03/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	82%		03/03/04			WE7251
Total Cadmium	4.5mg/kg dw		03/08/04			MB6119
Total Lead	10000mg/kg dw		03/08/04			MB6119

ID:06504045 Mat:Soil BCI PHASE II/0333 ISB4(0'-4') 03/03/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	90%		03/03/04			WE7251
Total Cadmium	3.0mg/kg dw		03/08/04			MB6119
Total Lead	46mg/kg dw		03/08/04			MB6119

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06504043
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06504046 Mat:Soil BCI PHASE II/0333 ISB5(0'-8') 03/03/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	89%		03/09/04			WE7251
Total Cadmium	1.6mg/kg dw		03/08/04			ME6119
Total Lead	<11mg/kg dw		03/08/04			ME6119

ID:06504047 Mat:Soil BCI PHASE II/0333 ISB6(0'-8') 03/03/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	86%		03/09/04			WE7251
Total Arsenic by Low Level	8.2mg/kg dw		03/08/04			ME6120
Total Barium	83mg/kg dw		03/08/04			ME6119
Total Cadmium	2.8mg/kg dw		03/08/04			ME6119
Total Chromium	25mg/kg dw		03/08/04			ME6119
Total Lead	15mg/kg dw		03/08/04			ME6119
Total Mercury	<0.24mg/kg dw		03/07/04			ME6118
Total Selenium by Low Level	<0.59mg/kg dw		03/08/04			ME6120
Total Silver	<5.8mg/kg dw		03/08/04			ME6119
TCL Volatiles by EPA Method 8260						
Chloromethane	<3ug/kg dw		03/08/04			VM4805
Bromomethane	<3ug/kg dw		03/08/04			VM4805
Vinyl Chloride	<2ug/kg dw		03/08/04			VM4805
Chloroethane	<3ug/kg dw		03/08/04			VM4805
Methylene Chloride	8ug/kg dw		03/08/04		11	VM4805
Acetone	<12ug/kg dw		03/08/04			VM4805
Carbon Disulfide	<3ug/kg dw		03/08/04			VM4805
1,1-Dichloroethene	<3ug/kg dw		03/08/04			VM4805
1,1-Dichloroethane	<3ug/kg dw		03/08/04			VM4805
trans-1,2-Dichloroethene	<3ug/kg dw		03/08/04			VM4805
cis-1,2-Dichloroethene	<3ug/kg dw		03/08/04			VM4805
Chloroform	<3ug/kg dw		03/08/04			VM4805
1,2-Dichloroethane	<3ug/kg dw		03/08/04			VM4805
2-Butanone	<12ug/kg dw		03/08/04			VM4805
1,1,1-Trichloroethane	<3ug/kg dw		03/08/04			VM4805
Carbon Tetrachloride	<3ug/kg dw		03/08/04			VM4805
Bromodichloromethane	<3ug/kg dw		03/08/04			VM4805
1,2-Dichloropropane	<3ug/kg dw		03/08/04			VM4805
cis-1,3-Dichloropropene	<3ug/kg dw		03/08/04			VM4805
Trichloroethene	<3ug/kg dw		03/08/04			VM4805
Dibromochloromethane	<3ug/kg dw		03/08/04			VM4805
1,1,2-Trichloroethane	<3ug/kg dw		03/08/04			VM4805
Benzene	<3ug/kg dw		03/08/04			VM4805
trans-1,3-Dichloropropene	<3ug/kg dw		03/08/04			VM4805
Bromoform	<3ug/kg dw		03/08/04			VM4805

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06504043
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06504047 Mat:Soil BCI PHASE II/0333 ISB6(0'-8') 03/03/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
4-Methyl-2-pentanone	<12ug/kg dw		03/08/04			VM4805
2-Hexanone	<12ug/kg dw		03/08/04			VM4805
Tetrachloroethene	<3ug/kg dw		03/08/04			VM4805
1,1,2,2-Tetrachloroethane	<3ug/kg dw		03/08/04			VM4805
Toluene	<3ug/kg dw		03/08/04			VM4805
Chlorobenzene	<3ug/kg dw		03/08/04			VM4805
Ethylbenzene	<3ug/kg dw		03/08/04			VM4805
Styrene	<3ug/kg dw		03/08/04			VM4805
m,p-Xylene	<3ug/kg dw		03/08/04			VM4805
o-Xylene	<3ug/kg dw		03/08/04			VM4805
TCL Semivolatiles by EPA Method 8270						
Phenol	<390ug/kg dw		03/08/04			SA4119
bis(2-Chloroethyl)ether	<390ug/kg dw		03/08/04			SA4119
2-Chlorophenol	<390ug/kg dw		03/08/04			SA4119
1,3-Dichlorobenzene	<390ug/kg dw		03/08/04			SA4119
1,4-Dichlorobenzene	<390ug/kg dw		03/08/04			SA4119
1,2-Dichlorobenzene	<390ug/kg dw		03/08/04			SA4119
2-Methylphenol	<390ug/kg dw		03/08/04			SA4119
2,2'-Oxybis(1-Chloropropane)	<390ug/kg dw		03/08/04			SA4119
4-Methylphenol	<390ug/kg dw		03/08/04			SA4119
n-Nitrosodinpropylamine	<390ug/kg dw		03/08/04			SA4119
Hexachloroethane	<390ug/kg dw		03/08/04			SA4119
Nitrobenzene	<390ug/kg dw		03/08/04			SA4119
Isophorone	<390ug/kg dw		03/08/04			SA4119
2-Nitrophenol	<390ug/kg dw		03/08/04			SA4119
2,4-Dimethylphenol	<390ug/kg dw		03/08/04			SA4119
bis(2-Chloroethoxy)methane	<390ug/kg dw		03/08/04			SA4119
2,4-Dichlorophenol	<390ug/kg dw		03/08/04			SA4119
1,2,4-Trichlorobenzene	<390ug/kg dw		03/08/04			SA4119
Naphthalene	<390ug/kg dw		03/08/04			SA4119
4-Chloroaniline	<390ug/kg dw		03/08/04			SA4119
Hexachlorobutadiene	<390ug/kg dw		03/08/04			SA4119
4-Chloro-3-methylphenol	<390ug/kg dw		03/08/04			SA4119
2-Methylnaphthalene	<390ug/kg dw		03/08/04			SA4119
Hexachlorocyclopentadiene	<390ug/kg dw		03/08/04			SA4119
2,4,6-Trichlorophenol	<390ug/kg dw		03/08/04			SA4119
2,4,5-Trichlorophenol	<390ug/kg dw		03/08/04			SA4119
2-Chloronaphthalene	<390ug/kg dw		03/08/04			SA4119
2-Nitroaniline	<1900ug/kg dw		03/08/04			SA4119
Dimethylphthalate	<390ug/kg dw		03/08/04			SA4119
Acenaphthylene	<390ug/kg dw		03/08/04			SA4119
2,6-Dinitrotoluene	<390ug/kg dw		03/08/04			SA4119
3-Nitroaniline	<1900ug/kg dw		03/08/04			SA4119

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06504043
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06504047 Mat:Soil BCI PHASE II/0333 ISB6(0'-8') 03/03/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Acenaphthene	<390ug/kg dw		03/08/04			SA4119
2,4-Dinitrophenol	<3900ug/kg dw		03/08/04			SA4119
4-Nitrophenol	<3900ug/kg dw		03/08/04			SA4119
Dibenzofuran	<390ug/kg dw		03/08/04			SA4119
2,4-Dinitrotoluene	<390ug/kg dw		03/08/04			SA4119
Diethylphthalate	<390ug/kg dw		03/08/04			SA4119
4-Chlorophenylphenylether	<390ug/kg dw		03/08/04			SA4119
Fluorene	<390ug/kg dw		03/08/04			SA4119
4-Nitroaniline	<3900ug/kg dw		03/08/04			SA4119
2-Methyl-4,6-dinitrophenol	<3900ug/kg dw		03/08/04			SA4119
n-Nitrosodiphenylamine	<390ug/kg dw		03/08/04			SA4119
4-Bromophenylphenylether	<390ug/kg dw		03/08/04			SA4119
Hexachlorobenzene	<390ug/kg dw		03/08/04			SA4119
Pentachlorophenol	<780ug/kg dw		03/08/04			SA4119
Phenanthrene	<390ug/kg dw		03/08/04			SA4119
Anthracene	<390ug/kg dw		03/08/04			SA4119
Carbazole	<390ug/kg dw		03/08/04			SA4119
Di-n-butylphthalate	<390ug/kg dw		03/08/04			SA4119
Fluoranthene	<390ug/kg dw		03/08/04			SA4119
Pyrene	<390ug/kg dw		03/08/04			SA4119
Butylbenzylphthalate	<390ug/kg dw		03/08/04			SA4119
3,3'-Dichlorobenzidine	<390ug/kg dw		03/08/04			SA4119
Benzo(a)anthracene	<390ug/kg dw		03/08/04			SA4119
Chrysene	<390ug/kg dw		03/08/04			SA4119
bis(2-Ethylhexyl)phthalate	<390ug/kg dw		03/08/04			SA4119
Di-n-octylphthalate	<390ug/kg dw		03/08/04			SA4119
Benzo(b)fluoranthene	<390ug/kg dw		03/08/04			SA4119
Benzo(k)fluoranthene	<390ug/kg dw		03/08/04			SA4119
Benzo(a)pyrene	<390ug/kg dw		03/08/04			SA4119
Indeno(1,2,3-cd)pyrene	<390ug/kg dw		03/08/04			SA4119
Dibenzo(a,h)anthracene	<390ug/kg dw		03/08/04			SA4119
Benzo(ghi)perylene	<390ug/kg dw		03/08/04			SA4119

ID:06504048 Mat:Soil BCI PHASE II/0333 ISB7(4'-8') & ISB8(7'-10') 03/03/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	88%		03/09/04			WK7251
Total Arsenic by Low Level	<1.2mg/kg dw		03/08/04			MM6120
Total Barium	68mg/kg dw		03/08/04			MM6119
Total Cadmium	1.8mg/kg dw		03/08/04			MM6119
Total Chromium	16mg/kg dw		03/08/04			MM6119
Total Lead	<11mg/kg dw		03/08/04			MM6119
Total Mercury	<0.23mg/kg dw		03/07/04			MM6118

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06504043
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06504048 Mat:Soil BCI PHASE II/0333 ISB7(4'-8') & ISB8(7'-10') 03/03/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Total Selenium by Low Level	<0.6mg/kg dw		03/08/04			MB6120
Total Silver	5.7mg/kg dw		03/08/04			MB6119
TCL Volatiles by EPA Method 8260						
Chloromethane	<3ug/kg dw		03/08/04			VM4805
Bromomethane	<3ug/kg dw		03/08/04			VM4805
Vinyl Chloride	<2ug/kg dw		03/08/04			VM4805
Chloroethane	<3ug/kg dw		03/08/04			VM4805
Methylene Chloride	7ug/kg dw		03/08/04		11	VM4805
Acetone	<11ug/kg dw		03/08/04			VM4805
Carbon Disulfide	<3ug/kg dw		03/08/04			VM4805
1,1-Dichloroethene	<3ug/kg dw		03/08/04			VM4805
1,1-Dichloroethane	<3ug/kg dw		03/08/04			VM4805
trans-1,2-Dichloroethene	<3ug/kg dw		03/08/04			VM4805
cis-1,2-Dichloroethene	14ug/kg dw		03/08/04			VM4805
Chloroform	<3ug/kg dw		03/08/04			VM4805
1,2-Dichloroethane	<3ug/kg dw		03/08/04			VM4805
2-Butanone	<11ug/kg dw		03/08/04			VM4805
1,1,1-Trichloroethane	<3ug/kg dw		03/08/04			VM4805
Carbon Tetrachloride	<3ug/kg dw		03/08/04			VM4805
Bromodichloromethane	<3ug/kg dw		03/08/04			VM4805
1,2-Dichloropropane	<3ug/kg dw		03/08/04			VM4805
cis-1,3-Dichloropropene	<3ug/kg dw		03/08/04			VM4805
Trichloroethene	130ug/kg dw		03/08/04			VM4805
Dibromochloromethane	<3ug/kg dw		03/08/04			VM4805
1,1,2-Trichloroethane	<3ug/kg dw		03/08/04			VM4805
Benzene	<3ug/kg dw		03/08/04			VM4805
trans-1,3-Dichloropropene	<3ug/kg dw		03/08/04			VM4805
Bromoform	<3ug/kg dw		03/08/04			VM4805
4-Methyl-2-pentanone	<11ug/kg dw		03/08/04			VM4805
2-Hexanone	<11ug/kg dw		03/08/04			VM4805
Tetrachloroethene	5ug/kg dw		03/08/04			VM4805
1,1,2,2-Tetrachloroethane	<3ug/kg dw		03/08/04			VM4805
Toluene	<3ug/kg dw		03/08/04			VM4805
Chlorobenzene	<3ug/kg dw		03/08/04			VM4805
Ethylbenzene	<3ug/kg dw		03/08/04			VM4805
Styrene	<3ug/kg dw		03/08/04			VM4805
m,p-Xylene	<3ug/kg dw		03/08/04			VM4805
o-Xylene	<3ug/kg dw		03/08/04			VM4805
TCL Semivolatiles by EPA Method 8270						
Phenol	<380ug/kg dw		03/08/04			SA4119
bis(2-Chloroethyl)ether	<380ug/kg dw		03/08/04			SA4119
2-Chlorophenol	<380ug/kg dw		03/08/04			SA4119

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06504043
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06504048 Mat:Soil BCI PHASE II/0333 ISB7(4'-8') & ISB8(7'-10') 03/03/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILES
1,3-Dichlorobenzene	<380ug/kg dw		03/08/04			SA4119
1,4-Dichlorobenzene	<380ug/kg dw		03/08/04			SA4119
1,2-Dichlorobenzene	<380ug/kg dw		03/08/04			SA4119
2-Methylphenol	<380ug/kg dw		03/08/04			SA4119
2,2'-Oxybis(1-Chloropropane)	<380ug/kg dw		03/08/04			SA4119
4-Methylphenol	<380ug/kg dw		03/08/04			SA4119
n-Nitrosodinpropylamine	<380ug/kg dw		03/08/04			SA4119
Hexachloroethane	<380ug/kg dw		03/08/04			SA4119
Nitrobenzene	<380ug/kg dw		03/08/04			SA4119
Isophorone	<380ug/kg dw		03/08/04			SA4119
2-Nitrophenol	<380ug/kg dw		03/08/04			SA4119
2,4-Dimethylphenol	<380ug/kg dw		03/08/04			SA4119
bis(2-Chloroethoxy)methane	<380ug/kg dw		03/08/04			SA4119
2,4-Dichlorophenol	<380ug/kg dw		03/08/04			SA4119
1,2,4-Trichlorobenzene	<380ug/kg dw		03/08/04			SA4119
Naphthalene	<380ug/kg dw		03/08/04			SA4119
4-Chloroaniline	<380ug/kg dw		03/08/04			SA4119
Hexachlorobutadiene	<380ug/kg dw		03/08/04			SA4119
4-Chloro-3-methylphenol	<380ug/kg dw		03/08/04			SA4119
2-Methylnaphthalene	<380ug/kg dw		03/08/04			SA4119
Hexachlorocyclopentadiene	<380ug/kg dw		03/08/04			SA4119
2,4,6-Trichlorophenol	<380ug/kg dw		03/08/04			SA4119
2,4,5-Trichlorophenol	<380ug/kg dw		03/08/04			SA4119
2-Chloronaphthalene	<380ug/kg dw		03/08/04			SA4119
2-Nitroaniline	<3800ug/kg dw		03/08/04			SA4119
Dimethylphthalate	<380ug/kg dw		03/08/04			SA4119
Acenaphthylene	<380ug/kg dw		03/08/04			SA4119
2,6-Dinitrotoluene	<380ug/kg dw		03/08/04			SA4119
3-Nitroaniline	<3800ug/kg dw		03/08/04			SA4119
Acenaphthene	<380ug/kg dw		03/08/04			SA4119
2,4-Dinitrophenol	<3800ug/kg dw		03/08/04			SA4119
4-Nitrophenol	<3800ug/kg dw		03/08/04			SA4119
Dibenzofuran	<380ug/kg dw		03/08/04			SA4119
2,4-Dinitrotoluene	<380ug/kg dw		03/08/04			SA4119
Diethylphthalate	<380ug/kg dw		03/08/04			SA4119
4-Chlorophenylphenylether	<380ug/kg dw		03/08/04			SA4119
Fluorene	<380ug/kg dw		03/08/04			SA4119
4-Nitroaniline	<3800ug/kg dw		03/08/04			SA4119
2-Methyl-4,6-dinitrophenol	<3800ug/kg dw		03/08/04			SA4119
n-Nitrosodiphenylamine	<380ug/kg dw		03/08/04			SA4119
4-Bromophenylphenylether	<380ug/kg dw		03/08/04			SA4119
Hexachlorobenzene	<380ug/kg dw		03/08/04			SA4119
Pentachlorophenol	<760ug/kg dw		03/08/04			SA4119
Phenanthrene	<380ug/kg dw		03/08/04			SA4119

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06504043
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06504048 Mat:Soil BCI PHASE II/0333 ISB7(4'-8') & ISB8(7'-10') 03/03/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Anthracene	<380ug/kg dw		03/08/04			SA4119
Carbazole	<380ug/kg dw		03/08/04			SA4119
Di-n-butylphthalate	<380ug/kg dw		03/08/04			SA4119
Fluoranthene	<380ug/kg dw		03/08/04			SA4119
Pyrene	<380ug/kg dw		03/08/04			SA4119
Butylbenzylphthalate	<380ug/kg dw		03/08/04			SA4119
3,3'-Dichlorobenzidine	<380ug/kg dw		03/08/04			SA4119
Benzo(a)anthracene	<380ug/kg dw		03/08/04			SA4119
Chrysene	<380ug/kg dw		03/08/04			SA4119
bis(2-Ethylhexyl)phthalate	1400ug/kg dw		03/08/04			SA4119
Di-n-octylphthalate	<380ug/kg dw		03/08/04			SA4119
Benzo(b)fluoranthene	<380ug/kg dw		03/08/04			SA4119
Benzo(k)fluoranthene	<380ug/kg dw		03/08/04			SA4119
Benzo(a)pyrene	<380ug/kg dw		03/08/04			SA4119
Indeno(1,2,3-cd)pyrene	<380ug/kg dw		03/08/04			SA4119
Dibenzo(a,h)anthracene	<380ug/kg dw		03/08/04			SA4119
Benzo(ghi)perylene	<380ug/kg dw		03/08/04			SA4119

ID:06504049 Mat:Soil BCI PHASE II/0333 ISB9(0'-7') 03/03/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	83%		03/09/04			MB7251
Total Arsenic by Low Level	6.3mg/kg dw		03/08/04			MB6120
Total Barium	130mg/kg dw		03/08/04			MB6119
Total Cadmium	3.1mg/kg dw		03/08/04			MB6119
Total Chromium	23mg/kg dw		03/08/04			MB6119
Total Lead	36mg/kg dw		03/08/04			MB6119
Total Mercury	0.80mg/kg dw		03/07/04			MB6118
Total Selenium by Low Level	<0.7mg/kg dw		03/08/04			MB6120
Total Silver	<6mg/kg dw		03/08/04			MB6119
TCL Volatiles by EPA Method 8260						
Chloromethane	<600ug/kg dw		03/08/04	5		VM4805
Bromomethane	<600ug/kg dw		03/08/04	5		VM4805
Vinyl Chloride	<600ug/kg dw		03/08/04	5		VM4805
Chloroethane	<600ug/kg dw		03/08/04	5		VM4805
Methylene Chloride	<600ug/kg dw		03/08/04	5		VM4805
Acetone	<2000ug/kg dw		03/08/04	5		VM4805
Carbon Disulfide	<600ug/kg dw		03/08/04	5		VM4805
1,1-Dichloroethene	<600ug/kg dw		03/08/04	5		VM4805
1,1-Dichloroethane	<600ug/kg dw		03/08/04	5		VM4805
trans-1,2-Dichloroethene	<600ug/kg dw		03/08/04	5		VM4805
cis-1,2-Dichloroethene	<600ug/kg dw		03/08/04	5		VM4805

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06504043
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06504043 Mat:Soil BCI PHASE II/0333 ISB9(0'-7') 03/03/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Chloroform	<600ug/kg dw		03/08/04	5		VM4805
1,2-Dichloroethane	<600ug/kg dw		03/08/04	5		VM4805
2-Butanone	<2000ug/kg dw		03/08/04	5		VM4805
1,1,1-Trichloroethane	<600ug/kg dw		03/08/04	5		VM4805
Carbon Tetrachloride	<600ug/kg dw		03/08/04	5		VM4805
Bromodichloromethane	<600ug/kg dw		03/08/04	5		VM4805
1,2-Dichloropropane	<600ug/kg dw		03/08/04	5		VM4805
cis-1,3-Dichloropropene	<600ug/kg dw		03/08/04	5		VM4805
Trichloroethene	<600ug/kg dw		03/08/04	5		VM4805
Dibromochloromethane	<600ug/kg dw		03/08/04	5		VM4805
1,1,2-Trichloroethane	<600ug/kg dw		03/08/04	5		VM4805
Benzene	<600ug/kg dw		03/08/04	5		VM4805
trans-1,3-Dichloropropene	<600ug/kg dw		03/08/04	5		VM4805
Bromoform	<600ug/kg dw		03/08/04	5		VM4805
4-Methyl-2-pentanone	<2000ug/kg dw		03/08/04	5		VM4805
2-Hexanone	<2000ug/kg dw		03/08/04	5		VM4805
Tetrachloroethene	<600ug/kg dw		03/08/04	5		VM4805
1,1,2,2-Tetrachloroethane	<600ug/kg dw		03/08/04	5		VM4805
Toluene	<600ug/kg dw		03/08/04	5		VM4805
Chlorobenzene	<600ug/kg dw		03/08/04	5		VM4805
Ethylbenzene	9600ug/kg dw		03/08/04			VM4805
Styrene	<600ug/kg dw		03/08/04	5		VM4805
m,p-Xylene	11,000ug/kg dw		03/08/04	5		VM4805
o-Xylene	<600ug/kg dw		03/08/04	5		VM4805
TCL Semivolatiles by EPA Method 8270						
Phenol	<400ug/kg dw		03/08/04			SA4119
bis(2-Chloroethyl)ether	<400ug/kg dw		03/08/04			SA4119
2-Chlorophenol	<400ug/kg dw		03/08/04			SA4119
1,3-Dichlorobenzene	<400ug/kg dw		03/08/04			SA4119
1,4-Dichlorobenzene	<400ug/kg dw		03/08/04			SA4119
1,2-Dichlorobenzene	<400ug/kg dw		03/08/04			SA4119
2-Methylphenol	<400ug/kg dw		03/08/04			SA4119
2,2'-Oxybis(1-Chloropropane)	<400ug/kg dw		03/08/04			SA4119
4-Methylphenol	<400ug/kg dw		03/08/04			SA4119
n-Nitrosodinpropylamine	<400ug/kg dw		03/08/04			SA4119
Hexachloroethane	<400ug/kg dw		03/08/04			SA4119
Nitrobenzene	<400ug/kg dw		03/08/04			SA4119
Isophorone	<400ug/kg dw		03/08/04			SA4119
2-Nitrophenol	<400ug/kg dw		03/08/04			SA4119
2,4-Dimethylphenol	<400ug/kg dw		03/08/04			SA4119
bis(2-Chloroethoxy)methane	<400ug/kg dw		03/08/04			SA4119
2,4-Dichlorophenol	<400ug/kg dw		03/08/04			SA4119
1,2,4-Trichlorobenzene	<400ug/kg dw		03/08/04			SA4119

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06504043
Client I.D.: ENVIROMMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06504049 Mat:Soil BCI PHASE II/0333 ISB9(0'-7') 03/03/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Naphthalene	<400ug/kg dw		03/08/04			SA4119
4-Chloroaniline	<400ug/kg dw		03/08/04			SA4119
Hexachlorobutadiene	<400ug/kg dw		03/08/04			SA4119
4-Chloro-3-methylphenol	<400ug/kg dw		03/08/04			SA4119
2-Methylnaphthalene	<400ug/kg dw		03/08/04			SA4119
Hexachlorocyclopentadiene	<400ug/kg dw		03/08/04			SA4119
2,4,6-Trichlorophenol	<400ug/kg dw		03/08/04			SA4119
2,4,5-Trichlorophenol	<400ug/kg dw		03/08/04			SA4119
2-Chloronaphthalene	<400ug/kg dw		03/08/04			SA4119
2-Nitroaniline	<4000ug/kg dw		03/08/04			SA4119
Dimethylphthalate	<400ug/kg dw		03/08/04			SA4119
Acenaphthylene	<400ug/kg dw		03/08/04			SA4119
2,6-Dinitrotoluene	<400ug/kg dw		03/08/04			SA4119
3-Nitroaniline	<4000ug/kg dw		03/08/04			SA4119
Acenaphthene	<400ug/kg dw		03/08/04			SA4119
2,4-Dinitrophenol	<4000ug/kg dw		03/08/04			SA4119
4-Nitrophenol	<4000ug/kg dw		03/08/04			SA4119
Dibenzofuran	<400ug/kg dw		03/08/04			SA4119
2,4-Dinitrotoluene	<400ug/kg dw		03/08/04			SA4119
Diethylphthalate	<400ug/kg dw		03/08/04			SA4119
4-Chlorophenylphenylether	<400ug/kg dw		03/08/04			SA4119
Fluorene	<400ug/kg dw		03/08/04			SA4119
4-Nitroaniline	<4000ug/kg dw		03/08/04			SA4119
2-Methyl-4,6-dinitrophenol	<4000ug/kg dw		03/08/04			SA4119
n-Nitrosodiphenylamine	<400ug/kg dw		03/08/04			SA4119
4-Bromophenylphenylether	<400ug/kg dw		03/08/04			SA4119
Hexachlorobenzene	<400ug/kg dw		03/08/04			SA4119
Pentachlorophenol	<800ug/kg dw		03/08/04			SA4119
Phenanthrene	<400ug/kg dw		03/08/04			SA4119
Anthracene	<400ug/kg dw		03/08/04			SA4119
Carbazole	<400ug/kg dw		03/08/04			SA4119
Di-n-butylphthalate	<400ug/kg dw		03/08/04			SA4119
Fluoranthene	<400ug/kg dw		03/08/04			SA4119
Pyrene	<400ug/kg dw		03/08/04			SA4119
Butylbenzylphthalate	<400ug/kg dw		03/08/04			SA4119
3,3'-Dichlorobenzidine	<400ug/kg dw		03/08/04			SA4119
Benzo(a)anthracene	<400ug/kg dw		03/08/04			SA4119
Chrysene	<400ug/kg dw		03/08/04			SA4119
bis(2-Ethylhexyl)phthalate	1800ug/kg dw		03/08/04			SA4119
Di-n-octylphthalate	<400ug/kg dw		03/08/04			SA4119
Benzo(b)fluoranthene	<400ug/kg dw		03/08/04			SA4119
Benzo(k)fluoranthene	<400ug/kg dw		03/08/04			SA4119
Benzo(a)pyrene	<400ug/kg dw		03/08/04			SA4119
Indeno(1,2,3-cd)pyrene	<400ug/kg dw		03/08/04			SA4119

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06504043
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06504049 Mat:Soil BCI PHASE II/0333 ISB9(0'-7') 03/03/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Dibenzo(a,h)anthracene	<400ug/kg dw		03/08/04			SA4129
Benzo(ghi)perylene	<400ug/kg dw		03/08/04			SA4119

ID:06504050 Mat:Solid BCI PHASE II/0333 GLAZE MAKING AREA 03/03/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	100%		03/09/04			WE7251
Total Cadmium	6.5mg/kg dw		03/08/04			MB6119
Total Lead	25,000mg/kg dw		03/08/04			MB6119

ID:06504051 Mat:Solid BCI PHASE II/0333 GLAZE RECLAIM AREA 03/03/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	100%		03/09/04			WE7251
Total Cadmium	17mg/kg dw		03/08/04			MB6119
Total Lead	11000mg/kg dw		03/08/04			MB6119

ID:06504052 Mat:Solid BCI PHASE II/0333 TK-6 SPRAY GLAZE 03/03/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	95%		03/09/04			WE7251
Total Cadmium	6.3mg/kg dw		03/08/04			MB6119
Total Lead	38,000mg/kg dw		03/08/04			MB6119

ID:06504053 Mat:Solid BCI PHASE II/0333 COLOR CELL SPRAY GLAZE 03/03/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	100%		03/09/04			WE7251
Total Cadmium	27mg/kg dw		03/08/04			MB6119
Total Lead	43,000mg/kg dw		03/08/04			MB6119

ID:06504054 Mat:Solid BCI PHASE II/0333 OLD SLIP HOUSE 03/03/04 C

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	93%		03/09/04			WE7251
Total Cadmium	38mg/kg dw		03/08/04			MB6119
Total Lead	2200mg/kg dw		03/08/04			MB6119

dw = Dry weight

DATE: / /

Upstate Laboratories, Inc.
Analysis Results
Report Number: 06504043
Client I.D.: ENVIRONMENTAL AUDITS, INC.

APPROVAL:_ _ _ _
QC:_ _ _ _ _ _ _
Lab I.D.: 10170
Sampled by: Client

ID:06504055 Mat:Solid BCI PHASE II/0333 GLAZE RECOVRY TRENCH 03/03/04 C

	PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
	Percent Solids	71%		03/09/04			MK7251
Total	Cadmium	2.9mg/kg dw		03/08/04			MB6119
Total	Lead	27,000mg/kg dw		03/09/04			MB6124

dw = Dry weight

Upstate Laboratories, Inc.
6034 Corporate Drive • E. Syracuse, NY 13057-1017
(315) 437 0255 Fax 437 1209

Chain Of Custody Record

3/9 AM MOD 3/9/04

Client: Environmental Audits		Client Project # / Project Name: BCI Phase II / 0333				No. of Con-tainers	1) Lead	2) Cadmium	3)	4)	5)	6)	7)	8)	9)	10)	Special Turnaround Time 2 DAYS (Lab Notification required)
Client Contact: S. Overhoff	Phone #	Site Location (city/state): Buffalo, NY															
Sample Location:	Date	Time	Matrix	Grab or Comp.	ULI Internal Use Only												Remarks
Glo Cell Spray Glaze	3/3/04		Dust	C	00504053	1	X	X	X								
Old Slip House	3/3/04		"	C	54	1	X	X	X								
Glaze Recovery Trench	3/3/04		~~Sludge~~ Solid	C	55	1	X	X	X								

parameter and method	sample bottle: type	size	pres.
1) Lead (T)	GL		cool
2) Cadmium (T)	GL		cool
3) (% Solids) CC 3-5-04			
4)			
5)			
6)			
7)			
8)			
9)			
10)			

Note: The numbered columns above cross-reference with the numbered columns in the upper right-hand corner.

Sampled by: (Please Print) Scott Overhoff
Company: Environmental Audits, Inc.

ULI Internal Use Only
Delivery (check one):
☐ ULI Sampled
☑ Pickup ☐ Dropoff
☑ CC

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
[signature]	3/4/04	1620	[signature]
[signature]	3/4/04	1200	
	3/5/04	0900	Rec'd for Lab by: [signature]

Syracuse · Rochester · (Buffalo) · Albany · Binghamton · Fair Lawn (NJ)

Upstate Laboratories, Inc.
6034 Corporate Drive • E. Syracuse, NY 13057-1017
(315) 437 0255 Fax 437 1209

Chain Of Custody Record

3/9 HAD NAD 3/9/04

Client:	Phone #	Client Project # / Project Name
Environmental Audits		BOE Phase II / 0333
Client Contact:	**Phone #**	**Site Location (city/state)**
S. Overhoff	(716) 667-6804	Buffalo, NY

Special Turnaround Time: 2 DAYS (Lab Notification required)

Sample Location:	Date	Time	Matrix	Grab or Comp.	ULI Internal Use Only	No. of Containers	1) 8260 TCL	2) 8270 TCL	3) RCRA Metals	4) Lead	5) Cadmium	6)	7)	8)	9)	10)	Remarks
ISB2 (4-8')	3/3/04		Soil	C	C0504043	2	X	X	X			X					
ISB3 (0-8')	3/3/04		"		44	1				X	X	X					
ISB4 (0-4')			"		45	1				X	X	X					
ISB5 (0-8')			"		46	1				X	X	X					
ISB6 (0-8')			"		47	2	X	X	X			X					
ISB7 (4-8') + ISB8 (7-10')			"		48	2	X	X	X			X					
ISB9 (0-7')			"		49	2	X	X	X			X					
Glaze Making Area			Dust		50	1				X	X	X					
Glaze Reclaim Area			"		51	1				X	X	X					
TK-6 Spray Glaze			"		52	1				X	X	X					

parameter and method	sample bottle: type	size	pres.
1) 8260 TCL	GL		cold
2) 8270 TCL			
3) RCRA Metals			
4) Lead (T)			
5) Cadmium (T)			
6) % Solids (FC 3-5-04)			
7)			
8)			
9)			
10)			

Note: The numbered columns above cross-reference with the numbered columns in the upper right-hand corner.

Sampled by: (Please Print) Scott Overhoff
Company: Environmental Audits, Inc.

ULI Internal Use Only
Delivery (check one):
☐ ULI Sampled
☑ Pickup ☐ Dropoff
☐ CC

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
[signature]	3/4/04	1620	[signature]
[signature]	3/4/04	1700	
	3-5-04	0800 0915	Rec'd for Lab by: (Signature) [signature]

Syracuse Rochester (Buffalo) Albany Binghamton Fair Lawn (NJ)

Upstate Laboratories, Inc.

6034 Corporate Drive • E. Syracuse, NY 13057-1017
(315) 437 0255 Fax 437 1209

Chain Of Custody Record

3/9 HM HOD 3/8/04

Client: Environmental Audits
Client Project # / Project Name: 0333 / BCI Phase II
Client Contact: S. Overhoff
Phone #:
Site Location (city/state): Buffalo NY
Special Turnaround Time: 5 Day (Lab Notification required)

Sample Location:	Date	Time	Matrix	Grab or Comp.	ULI Internal Use Only	No. of Containers	1) 8260 TCL	2) 8270 TCL	3) RCRA Metals	4) Lead	5) Cadmium	6)	7)	8)	9)	10)	Remarks
SB30, 31, 32 (4'-10'	3/1/04		Soil	C	06204009	(2)	X		X			X					
SB33 (0'-4')	3/1/04		Soil	C	10	(2)	X	X	X			X					
SB35 (4'-10')	3/1/04		Soil	C	11	(2)	X		X			X					High VOC's
SB36 (8'-9')	3/1/04		Soil	C	12	(1)		X				X					
SB37 (4'-5.5')	3/1/04		Soil	C	13	(1)	X		X			X					
SB38 (8'-8.5')	3/1/04		Soil	C	14	(1)			X			X					
SB40 (0'-4')	3/1/04		Soil	C	15	(1)				X	X	X					
SB41 (0'-8')	3/1/04		Soil	C	16	(1)				X	X	X					
SB42 (0'-8')	3/1/04		Soil	C	17	(1)				X	X	X					
						(12)											

parameter and method	sample bottle: type	size	pres.
1) 8260 TCL	GL		Cool
2) 8270 TCL	GL		
3) RCRA METALS	GL		
4) TOTAL LEAD	GL		
5) TOTAL CADMIUM	GL		
6) (% Solids) KC 3-2-04			
7)			
8)			
9)			
10)			

Note: The numbered columns above cross-reference with the numbered columns in the upper right-hand corner.

Sampled by: (Please Print) Scott Overhoff
Company: Environmental Audits

ULI Internal Use Only:
Delivery (check one):
☐ ULI Sampled
☐ Pickup ☒ Dropoff
☐ cc CO

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Scott Overhoff	3/1/04	1530	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
	3/1/04	1700	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Rec'd for Lab by: (Signature)
	3-2-04	0935	

Syracuse Rochester (Buffalo) Albany Binghamton Fair Lawn (NJ)

Upstate Laboratories, Inc.
6034 Corporate Drive • E. Syracuse, NY 13057-1017
(315) 437 0255 Fax 437 1209

Chain Of Custody Record

3/9 KD HDD 3/8/07

Client: Environmental Audits
Client Contact: S. Overhoff
Phone #:
Client Project # / Project Name: 0333 / BCI Phase 2
Site Location (city/state): Buffalo, NY

Special Turnaround Time 5 Day (Lab Notification required)

Sample Location	Date	Time	Matrix	Grab or Comp.	ULI Internal Use Only	No. of Containers	1) 8260 TCL	2) 8270 TCL	3) RCRA Metals	4) Lead	5) Cadmium	6)	7)	8)	9)	10)	Remarks
SB12 (4'-12')	2/26/04		Soil	Comp	06204001	2	X	X		X		(X)					
SB14 (8'-12')	2/26/04				2	2	X	X	X			(X)					
SB18 (8'-12')	2/27/04				3	2	X	X	X			(X)					
~~SB20 (4'-12')~~	~~2/27/04~~						~~X~~	~~X~~	~~X~~								
SB21 (4'-12')	2/27/04				4	2	X	X	X			(X)					
SB22 (4'-16')	2/27/04				5	2	X	X	X			(X)					
SB24+25 (0'-4') Comp	2/27/04				6	1			X			(X)					
SB27+28 (0'-4') Comp	2/27/04				7	1			X			(X)					
SB26+29 (0'-4') Comp	2/27/04				8	1			X			(X)					
						13											

parameter and method	sample bottle: type	size	pres.
1) 8260 TCL	G-L		cool
2) 8270 TCL	↓		↓
3) RCRA METALS	↓		↓
4) TOTAL LEAD	↓		↓
5) TOTAL CADMIUM			
6) (% Solids) KC 3-2-04			
7)			
8)			
9)			
10)			

Sampled by: (Please Print) Scott Overhoff
Company: Environmental Audits

ULI Internal Use Only
Delivery (check one):
☐ ULI Sampled
☑ Pickup ☐ Dropoff
☑ FedEx: CA

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
[signature]	3/1/04	1530	[signature]
[signature]	3/1/04	1700	
	3-2-04	0805	Rec'd for Lab by: (Signature) [signature]

Note: The numbered columns above cross-reference with the numbered columns in the upper right-hand corner.

Syracuse Rochester (Buffalo) Albany Binghamton Fair Lawn (NJ)

Attachment 3

Summary Data Tables

Table 1
Soil Sample Analytical Results Summary
Volatile Organic Compounds

February 26 & 27, 2004 Sampling Dates

Analytical Parameter	SB12 (4'-12')	SB14 (8'-12')	SB18 (8'-12')	SB21 (4'-12')	SB22 (4'-16')	Recommended Soil Cleanup Objective (TACM 4046)
Chloromethane	"	"	"	"	"	NA
Bromomethane	"	"	"	"	"	NA
Vinyl Chloride	"	"	"	"	"	200
Chloroethane	"	"	"	"	"	1,900
Methylene Chloride	"	"	"	"	"	100
Acetone	"	"	"	"	"	200
Carbon Disulfide	"	"	"	"	"	2,700
1,1-Dichloroethene	"	"	"	"	"	400
1,1-Dichloroethane	"	"	"	"	"	200
Trans-1,2-Dichloroethene	"	"	"	"	"	300
Cis-1,2-Dichloroethene	"	"	"	"	"	NA
Chloroform	"	"	"	"	"	300
1,2-Dichloroethane	"	"	"	"	"	100
2-Butanone	"	"	"	"	"	300
1,1,1-Trichloroethane	"	"	"	"	"	800
Carbon Tetrachloride	"	"	"	"	"	600
Bromodichloromethane	"	"	"	"	"	NA
1,2-Dichloropropane	"	"	"	"	"	NA
Cis-1,3-Dichloropropene	"	"	"	"	"	300
Trichloroethene	"	"	"	"	"	700
Dibromochloromethane	"	"	"	"	"	NA
3,1,2-Trichloroethane	"	"	"	"	"	NA
Benzene	"	"	"	"	"	60
Trans-1,3-Dichloropropene	"	"	"	"	"	300
Bromoform	"	"	"	"	"	NA
4-Methyl-2-pentanone	"	"	"	"	"	100
2-Hexanone	"	"	"	"	"	NA
Tetrachloroethene	"	"	"	"	"	1,400
1,1,2,2-Tetrachloroethane	"	"	"	"	"	600
Toluene	"	"	"	"	"	1,500
Chlorobenzene	"	"	"	"	"	1,700
Ethylbenzene	"	"	"	"	930	5,500
Styrene	"	"	"	"	"	NA
Xylenes	"	"	2,900	"	11,500	1,200

Notes: 1) Results from USEPA Method 8260 for Volatiles; All results in ppb (ug/kg).
2) Shaded results indicate the concentration detected exceeds the Recommended Soil Cleanup Objective.
3) NA = Not Applicable
4) " = Parameter not detected above Method Detection Limit (MDL).

Table 1 (Continued)
Soil Sample Analytical Summary
Volatile Organics

March 1, 2004 Sampling Date

Analytical Parameter	SB30,31 &32 (4'-10')	SB33 (0'-4')	SB35 (4'-10')	SB37 (4'-5.5')	Recommended Soil Cleanup Objective (TAGM 4046)
Chloromethane	"	"	"	"	NA
Bromomethane	"	"	"	"	NA
Vinyl Chloride	"	"	"	"	200
Chloroethane	"	"	"	"	1,900
Methylene Chloride	"	"	"	"	100
Acetone	"	"	"	"	200
Carbon Disulfide	"	"	"	"	2,700
1,1-Dichloroethene	"	"	"	"	400
1,1-Dichloroethane	"	"	"	"	200
Trans-1,2-Dichloroethene	"	"	"	"	300
Cis-1,2-Dichloroethene	"	"	"	"	NA
Chloroform	"	"	"	"	300
1,2-Dichloroethane	"	"	"	"	100
2-Butanone	"	"	"	"	300
1,1,1-Trichloroethane	"	"	"	"	800
Carbon Tetrachloride	"	"	"	"	600
Bromodichloromethane	"	"	"	"	NA
1,2-Dichloropropane	"	"	"	"	NA
Cis-1,3-Dichloropropene	"	"	"	"	300
Trichloroethene	100	"	250,000	620	700
Dibromochloromethane	"	"	"	"	NA
3,1,2-Trichloroethane	"	"	"	"	NA
Benzene	"	"	"	"	60
Trans-1,3-Dichloropropene	"	"	"	"	300
Bromoform	"	"	"	"	NA
4-Methyl-2-pentanone	"	"	"	"	100
2-Hexanone	"	"	"	"	NA
Tetrachloroethene	"	"	"	"	1,400
1,1,2,2-Tetrachloroethane	"	"	"	"	600
Toluene	"	"	"	"	1,500
Chlorobenzene	"	"	"	"	1,700
Ethylbenzene	"	"	"	"	5,500
Styrene	"	"	"	"	NA
Xylenes	"	7,600	"	"	1,200

Notes:
1) Results from USEPA Method 8260 for Volatiles; All results in ppb (ug/kg).
2) Shaded results indicate the concentration detected exceeds the Recommended Soil Cleanup Objective.
3) NA = Not Applicable
4) " = Parameter not detected above Method Detection Limit (MDL).

Table 1 (Continued)
Soil Sample Analytical Summary
Volatile Organics

March 3, 2004 Sampling Date

Analytical Parameter	ISB2 (4'-8')	ISB6 (0'-8')	ISB7&8 (4'-8') & (7'-10')	ISB9 (0'-7')	Recommended Soil Cleanup Objective (TAGM 4046)
Chloromethane	"	"	"	"	NA
Bromomethane	"	"	"	"	NA
Vinyl Chloride	"	"	"	"	200
Chloroethane	"	"	"	"	1,900
Methylene Chloride	9	8	7	"	100
Acetone	"	"	"	"	200
Carbon Disulfide	"	"	"	"	2,700
1,1-Dichloroethene	"	"	"	"	400
1,1-Dichloroethane	"	"	"	"	200
Trans-1,2-Dichloroethene	"	"	"	"	300
Cis-1,2-Dichloroethene	"	"	14	"	NA
Chloroform	"	"	"	"	300
1,2-Dichloroethane	"	"	"	"	100
2-Butanone	"	"	"	"	300
1,1,1-Trichloroethane	"	"	"	"	800
Carbon Tetrachloride	"	"	"	"	600
Bromodichloromethane	"	"	"	"	NA
1,2-Dichloropropane	"	"	"	"	NA
Cis-1,3-Dichloropropene	"	"	"	"	300
Trichloroethene	"	"	130	"	700
Dibromochloromethane	"	"	"	"	NA
3,1,2-Trichloroethane	"	"	"	"	NA
Benzene	"	"	"	"	60
Trans-1,3-Dichloropropene	"	"	"	"	300
Bromoform	"	"	"	"	NA
4-Methyl-2-pentanone	"	"	"	"	100
2-Hexanone	"	"	"	"	NA
Tetrachloroethene	"	"	5	"	1,400
1,1,2,2-Tetrachloroethane	"	"	"	"	600
Toluene	"	"	"	"	1,500
Chlorobenzene	"	"	"	"	1,700
Ethylbenzene	"	"	"	9,600	5,500
Styrene	"	"	"	"	NA
Xylenes	"	"	"	11,000	1,200

Notes:
1) Results from USEPA Method 8260 for Volatiles; All results in ppb (ug/kg).
2) Shaded results indicate the concentration detected exceeds the Recommended Soil Cleanup Objective.
3) NA = Not Applicable
4) " = Parameter not detected above Method Detection Limit (MDL).

Table 2

Soil Sample Analytical Results
Semi-volatile Organics

February 26 & 27, 2004 Sampling Dates

Analytical Parameter	SB12 (4'-12')	SB14 (8'-12')	SB18 (8'-12')	SB21 (4'-12')	SB22 (4'-16')	Recommended Soil Cleanup Objective (TAGM 4046)
Phenol	"	"	"	"	"	30 or MDL
bis(2-Chloroethyl)ether	"	"	"	"	"	NA
2-Chlorophenol	"	"	"	"	"	800
1,3-Dichlorobenzene	"	"	"	"	"	1,600
1,4-Dichlorobenzene	"	"	"	"	"	8,500
1,2-Dichlorobenzene	"	"	"	"	"	7,900
2-Methylphenol	"	"	"	"	"	100 or MDL
2,2-Oxybis(1-Chloropropane)	"	"	"	"	"	NA
4-Methylphenol	"	830	"	"	"	900
n-Nitrosodinpropylamine	"	"	"	"	"	NA
Hexachloroethane	"	"	"	"	"	NA
Nitrobenzene	"	"	"	"	"	200 or MDL
Isophorone	"	"	"	"	"	4,400
2-Nitrophenol	"	"	"	"	"	330 or MDL
2,4-Dimethylphenol	"	990	"	"	"	NA
bis(2-Chloroethoxy)methane	"	"	"	"	"	NA
2,4-Dichlorophenol	"	"	"	"	"	400
1,2,4-Trichlorobenzene	"	"	"	"	"	3,400
Naphthalene	"	>3,700	2,000	1,200	4,500	13,000
4-Chloroaniline	"	"	"	"	"	220 or MDL
Hexachlorobutadiene	"	"	"	"	"	NA
4-Chloro-3-methylphenol	"	"	"	"	"	240 or MDL
2-Methylnaphthalene	"	>3,700	2,400	2,300	3,500	36,400
Hexachlorocyclopentadiene	"	"	"	"	"	NA
2,4,6-Trichlorophenol	"	"	"	"	"	NA
2,4,5-Trichlorophenol	"	"	"	"	"	100
2-Chloronaphthalene	"	"	"	"	"	NA
2-Nitroanaline	"	"	"	"	"	430 or MDL
Dimethylphthalate	"	"	"	"	"	2,000
Acenaphthylene	"	3,200	"	580	"	41,000
2,6-Dinitrotoluene	"	"	"	"	"	1,000
3-Nitroaniline	"	"	"	"	"	500 or MDL

Notes:
1) Results from USEPA Method 8270 for Semi-volatiles; All results in ppb (ug/kg).
2) Shaded results indicate that the concentration detected exceeds the Recommended Soil Cleanup Objective.
3) NA means Not Applicable.
4) MDL means Method Detection Limit.
5) " means compound not detected above MDL.
6) > with result - see Lab Report for explanation.

Table 2 (Continued)

Soil Sample Analytical Results
Semi-volatile Organics

February 26 & 27, 2004 Sampling Dates

Analytical Parameter	SB12 (4'-12')	SB14 (8'-12')	SB18 (8'-12')	SB21 (4'-12')	SB22 (4'-16')	Recommended Soil Cleanup Objective (TAGM 4046)
Acenaphthene	"	>3,700	"	3,000	3,200	**50,000**
2,4-Dinitrophenol	"	"	"	"	"	**200 or MDL**
4-Nitrophenol	"	"	"	"	"	**100 or MDL**
Dibenzofuran	"	>3,700	"	1,400	2,200	**6,200**
2,4-Dinitrotoluene	"	920	"	"	"	**NA**
Diethylphthalate	"	"	"	"	"	**NA**
4-Chlorophenylphenylether	"	"	"	"	"	**NA**
Fluorene	"	>3,700	"	3,400	3,600	**50,000**
4-Nitroanaline	"	"	"	"	4,400	**NA**
2-Methyl-4,6-dinitrophenol	"	"	"	"	"	**NA**
n-Nitrosodiphenylamine	"	"	"	"	"	**NA**
4-Bromophenylphenylether	"	"	"	"	"	**NA**
Hexachlorbenzene	"	"	"	"	"	**410**
Pentachlorophenol	"	"	"	"	"	**1,000 or MDL**
Phenanthrene	970	250,000	"	15,000	21,000	**50,000**
Anthracene	"	>3,700	"	>3,800	5,100	**50,000**
Carbazole	"	>3,700	"	1,200	1,900	**NA**
Di-n-butylphthalate	"	"	"	"	1,800	**8,100**
Fluoranthene	870	210,000	"	13,000	20,000	**50,000**
Pyrene	540	140,000	"	11,000	15,000	**50,000**
Butylbenzylphthalate	"	"	"	"	"	**50,000**
3,3-Dichlorobenzidine	"	"	"	"	"	**NA**
Benzo(a)anthracene	"	>3,700	"	5,600	7,800	**224 or MDL**
Chrysene	"	>3,700	"	4,100	6,900	**400**
bis(2-Ethylhexyl)phthalate	3,500	1,300	"	690	940	**50,000**
Di-n-octylphthalate	"	"	"	"	"	**50,000**
Benzo(b)fluoranthene	590	>3,700	"	5,700	8,000	**1,100**
Benzo(k)fluoranthene	"	>3,700	"	1,700	2,600	**1,100**
Benzo(a)pyrene	"	4,400	"	3,600	5,600	**61 or MDL**
Indeno(1,2,3-cd)pyrene	"	>3,700	"	1,600	2,900	**NA**
Dibenzo(a,h)anthracene	"	530	"	"	"	**14 or MDL**
Benzo(g,h,I)perylene	"	2,500	"	1,600	2,800	**50,000**

Notes:
1) Results from USEPA Method 8270 for Semi-volatiles; All results in ppb (ug/kg).
2) Shaded results indicate that the concentration detected exceeds the Recommended Soil Cleanup Objective.
3) NA means Not Applicable.
4) MDL means Method Detection Limit.
5) " means compound not detected above MDL.
6) > with result - see Lab Report for explanation.

Table 2 (Continued)

Soil Sample Analytical Results
Semi-volatile Organics

March 1 & 3, 2004 Sampling Dates

Analytical Parameter	SB33 (0'-4')	SB36 (8'-9')	ISB2 (4'-8')	ISB6 (0'-8')	ISB7&8 (4'-8') & (7'-10')	ISB9 (0'-7')	Recommended Soil Cleanup Objective (TAGM 4046)
Phenol	"	"	"	"	"	"	30 or MDL
bis(2-Chloroethyl)ether	"	"	"	"	"	"	NA
2-Chlorophenol	"	"	"	"	"	"	800
1,3-Dichlorobenzene	"	"	"	"	"	"	1,600
1,4-Dichlorobenzene	"	"	"	"	"	"	8,500
1,2-Dichlorobenzene	"	"	"	"	"	"	7,900
2-Methylphenol	"	"	"	"	"	"	100 or MDL
2,2-Oxybis(1-Chloropropane)	"	"	"	"	"	"	NA
4-Methylphenol	"	"	"	"	"	"	900
n-Nitrosodinpropylamine	"	"	"	"	"	"	NA
Hexachloroethane	"	"	"	"	"	"	NA
Nitrobenzene	"	"	"	"	"	"	200 or MDL
Isophorone	"	"	"	"	"	"	4,400
2-Nitrophenol	"	"	"	"	"	"	330 or MDL
2,4-Dimethylphenol	"	"	"	"	"	"	NA
bis(2-Chloroethoxy)methane	"	"	"	"	"	"	NA
2,4-Dichlorophenol	"	"	"	"	"	"	400
1,2,4-Trichlorobenzene	"	"	"	"	"	"	3,400
Naphthalene	"	"	"	"	"	"	13,000
4-Chloroaniline	"	"	"	"	"	"	220 or MDL
Hexachlorobutadiene	"	"	"	"	"	"	NA
4-Chloro-3-methylphenol	"	"	"	"	"	"	240 or MDL
2-Methylnaphthalene	1,500	"	"	"	"	"	36,400
Hexachlorocyclopentadiene	"	"	"	"	"	"	NA
2,4,6-Trichlorophenol	"	"	"	"	"	"	NA
2,4,5-Trichlorophenol	"	"	"	"	"	"	100
2-Chloronaphthalene	"	"	"	"	"	"	NA
2-Nitroanaline	"	"	"	"	"	"	430 or MDL
Dimethylphthalate	"	"	"	"	"	"	2,000
Acenaphthylene	"	"	"	"	"	"	41,000
2,6-Dinitrotoluene	"	"	"	"	"	"	1,000
3-Nitroaniline	"	"	"	"	"	"	500 or MDL

Notes:
1) Results from USEPA Method 8270 for Semi-volatiles; All results in ppb (ug/kg).
2) Shaded results indicate that the concentration detected exceeds the Recommended Soil Cleanup Objective.
3) NA means Not Applicable.
4) MDL means Method Detection Limit.
5) " means compound not detected above MDL.
6) > with result - see Lab Report for explanation.

APPENDIX B

STRATIGRAPHIC AND WELL CONSTRUCTION LOGS

STRATIGRAPHIC LOG
(OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(51 Hayes Place)

HOLE DESIGNATION: SB-1-07
DATE COMPLETED: July 25, 2007
DRILLING METHOD: Direct Push
FIELD PERSONNEL: R. Nashett/C. Barton

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	NORTHING: 1045340.32 EASTING: 1082463.36 GROUND SURFACE	594.69					
2	FILL-gravel (GP), sand, coarse grained, low plasticity, light grey, dry		MC1				0
		592.19	SB-1				
4	GP-GRAVEL and SAND, medium to coarse grained, dark grey						
		589.89					
6	CL-CLAY and SILT, firm, fine grained, medium plasticity, light brown, moist		MC2				5
8							
10	- SILTY CLAY, with sand, medium density, slightly moist below 9.8 ft BGS		MC3				0.4
12	- with gravel, medium to high plasticity, moist below 12 ft BGS		MC4				0.2
14			MC5				0.2
		580.19					
16	END OF BOREHOLE @ 14.5ft BGS Auger Refusal @ 14.5 ft BGS Sample interval @ 2 to 4 ft BGS						
18							
20							
22							
24							
26							
28							
30							
32							
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (SB-1)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/4/10

STRATIGRAPHIC LOG
(OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(51 Hayes Place)

HOLE DESIGNATION: SB-2-07
DATE COMPLETED: July 27, 2007
DRILLING METHOD: HSA
FIELD PERSONNEL: R. Nashett

NORTHING: 1045881.11
EASTING: 1082082.35

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	606.40					
0	FILL, gravel (GM), with sand, low density, medium to coarse grained, olive grey		SS1			15	0.1
2			SS2			26	0.5
4		602.40					
	FILL, sand (SP), with gravel, low density, medium grained, olive		SS3			16	0.8
6	- green tint below 6 ft BGS	599.90					
	FILL, clay (CL), dense, light brown with red tint, slightly moist		SS4 SB-2			10	1
8			SS5			44	1.5
10			SS6			30	1
12	- with broken dishes below 12 ft BGS		SS7			10	0.5
14			SS8			7	0.7
16		590.40					
	CL-CLAY (NATIVE), dense, fine grained, non-plastic, light brown, damp		SS9			7	
18			SS10			60	
20		586.90					
	END OF BOREHOLE @ 19.5ft BGS						
	Auger Refusal @ 19.5 ft BGS						
22	Sample interval @ 6.5 to 8 ft BGS						
24							
26							
28							
30							
32							
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (SS4 SB-2)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/4/10

STRATIGRAPHIC LOG
(OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(51 Hayes Place)

HOLE DESIGNATION: SB-3-07
DATE COMPLETED: July 27, 2007
DRILLING METHOD: HSA
FIELD PERSONNEL: R. Nashett

NORTHING: 1045823.06
EASTING: 1082110.01

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	605.20					
0	FILL, gravel (GM), with sand	605.00					
	FILL, white material, hard, fine grained, appears to be concrete	604.70	SS1			19	0.1
2	FILL-clay (CL)		SS2			14	0.3
4			SS3			27	
6	FILL-white powder, fine grained	599.20	SS4			13	1.1
8	FILL, sand (SM), with gravel, medium grained, dark brown, dry	597.20	SS5			42	
10			SS6 SB-3			40	1.5
12	- some gravel, light grey below 12 ft BGS		SS7			27	
14			SS8			16	1.3
16	CL-CLAY (NATIVE), some gravel, dense, fine grained, some plasticity, damp	589.20	SS9			21	
18			SS10			>50	0.4
	END OF BOREHOLE @ 19.0ft BGS	586.20					
20	Auger Refusal @ 19 ft BGS						
22	Sample interval @ 10 to 13 ft BGS						
24							
26							
28							
30							
32							
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (SB-3)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/4/10

STRATIGRAPHIC LOG
(OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(51 Hayes Place)

HOLE DESIGNATION: SB-4-07
DATE COMPLETED: July 26, 2007
DRILLING METHOD: HSA
FIELD PERSONNEL: R. Nashett

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	NORTHING: 1045724.81 EASTING: 1082154.31 GROUND SURFACE	603.74					
0	FILL-gravel (GM), with sand, coarse grained, dark grey, dry		SS1			24	0.7
2	- white plastic/porcelain chunks mixed within the sample below 2 ft BGS		SS2 SB-4			23	0.7
4			SS3			12	
6			SS4			10	0.4
8		595.74					
8	FILL-clay (CL), with sand, with gravel, with small pieces of china, medium grained sand, fine grained gravel, dry		SS5			>50	
10			SS6			29	0.3
12		590.74	SS7			25	0.1
12	CL-CLAY, some gravel, fine grained, plastic, light brown, damp		SS8			12	0.4
16			SS9			>50	
16	END OF BOREHOLE @ 17.0ft BGS	586.74					
18	Auger Refusal @ 17 ft BGS						
20	Sample interval @ 2 to 4 ft BGS						
22							
24							
26							
28							
30							
32							
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (SB-4)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/4/10

STRATIGRAPHIC LOG
(OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(51 Hayes Place)

HOLE DESIGNATION: SB-5-07
DATE COMPLETED: July 25, 2007
DRILLING METHOD: Direct Push
FIELD PERSONNEL: R. Nashett

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	NORTHING: 1045593.49 EASTING: 1082142.7 GROUND SURFACE	594.10					
	ASPHALT/ SUBBASE GRAVEL	593.10					
	GP-SANDY GRAVEL, coarse grained, light grey, dry	592.10					
2	CL-CLAY with silt, dense, fine grained, medium plasticity, light brown, slightly moist		MC1				0.4
4	- trace silt, plastic below 4 ft BGS						
6			MC2 SB-5				0.8
8	- GRAVELLY CLAY, loose, fine to medium grained, non-plastic, wet below 8 ft BGS		MC3				0.2
	END OF BOREHOLE @ 8.5ft BGS	585.60					
10	Auger Refusal @ 8.5 ft BGS						
	Sample interval @ 4 to 8 ft BGS						
12							
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (MC2 SB-5)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/4/10

STRATIGRAPHIC LOG
(OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(51 Hayes Place)

HOLE DESIGNATION: SB-7-07
DATE COMPLETED: July 25, 2007
DRILLING METHOD: Direct Push
FIELD PERSONNEL: R. Nashett

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	NORTHING: 1045667.94 EASTING: 1082090.61 GROUND SURFACE	596.73					
	GP-GRAVEL, with sand, medium density, coarse grained, light grey, slightly moist	596.13					
	OL-SANDY CLAY, medium density, medium grained, light brown/dark grey, moist						
2	CL-CLAY, plastic, moist, odor	594.73	MC1				25.2
4			SB-7				
6			MC2				2.5
8			MC3				1.1
10	END OF BOREHOLE @ 10.0ft BGS	586.73					
12	Auger Refusal @ 10 ft BGS						
	Sample interval @ 3 to 6 ft BGS						
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (SB-7)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/4/10

STRATIGRAPHIC LOG
(OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(51 Hayes Place)

HOLE DESIGNATION: SB-8-07
DATE COMPLETED: July 25, 2007
DRILLING METHOD: Direct Push
FIELD PERSONNEL: R. Nashett

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	NORTHING: 1045640.65 EASTING: 1082107.18 GROUND SURFACE	595.88					
0	FILL, gravel - with glass below 1 ft BGS						
2	CLS-SANDY CLAY, medium grained, dark grey, odor	593.88	MC1				11.2
4	CL-CLAY	591.88					
6			SB-8 MC2				1
8			MC3				1.6
10	END OF BOREHOLE @ 9.5ft BGS Auger Refusal @ 9.5 ft BGS Sample interval @ 3.5 to 8 ft BGS	586.38					
12							
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (SB-8 MC2)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/4/10

STRATIGRAPHIC LOG
(OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(51 Hayes Place)

HOLE DESIGNATION: SB-9-07
DATE COMPLETED: July 25, 2007
DRILLING METHOD: Direct Push
FIELD PERSONNEL: R. Nashett

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	NORTHING: 1045636.85 EASTING: 1082042.47 GROUND SURFACE	596.03					
0	GP-GRAVEL, with sand, medium density, coarse grained, light grey, slightly moist	595.43					
	OL-SANDY CLAY, medium density, medium grained, light brown/dark grey, moist						
2			MC1				4.8
4			SB-9				
6			MC2				0.7
8		588.03					
	CL-CLAY, medium density, fine grained, plastic, light brown, moist		MC3				0.1
10		585.53					
	END OF BOREHOLE @ 10.5ft BGS						
12	Auger Refusal @ 10.5 ft BGS						
	Sample interval @ 3 to 6 ft BGS						
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (SB-9)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/4/10

STRATIGRAPHIC LOG
(OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(51 Hayes Place)

HOLE DESIGNATION: SB-10-07
DATE COMPLETED: July 25, 2007
DRILLING METHOD: Direct Push
FIELD PERSONNEL: R. Nashett

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	NORTHING: 1045606.92 EASTING: 1082057.6 GROUND SURFACE	595.49					
0	SP-GRAVELLY SAND, medium to coarse grained, dark grey, dry, possible organic vegetation present	594.79					
	CLS-SANDY CLAY, fine grained, slightly plastic, dark brown to black, slightly moist	594.09					
2	CL-CLAY, fine grained, reddish brown, damp		MC1				2.6
4							
6			SB-10 MC2				0.4
8			MC3				0.1
	END OF BOREHOLE @ 9.0ft BGS	586.49					
10	Auger Refusal @ 9 ft BGS						
12	Sample interval @ 3 to 8 ft BGS						
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (SB-10 MC2)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/4/10

STRATIGRAPHIC LOG
(OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(51 Hayes Place)

HOLE DESIGNATION: SB-11-07
DATE COMPLETED: July 25, 2007
DRILLING METHOD: Direct Push
FIELD PERSONNEL: R. Nashett

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	NORTHING: 1045672.5 EASTING: 1082034.85 GROUND SURFACE	596.55					
	Cored through ~6" thick concrete floor	596.35					
	FILL, gravel (GP) with sand, medium density, coarse grained, moist	596.05					
2	CL-CLAY, medium dense, slightly plastic, light brown, slightly moist		MC1				13.2
4			SB-11				
6			MC2				1.5
8							
10			MC3				0.4
	END OF BOREHOLE @ 10.5ft BGS	586.05					
12	Auger Refusal @ 10.5 ft BGS						
	Sample interval @ 2 to 6 ft BGS						
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (SB-11)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/4/10

STRATIGRAPHIC LOG
(OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(51 Hayes Place)

HOLE DESIGNATION: SB-12-07
DATE COMPLETED: July 26, 2007
DRILLING METHOD: Direct Push
FIELD PERSONNEL: R. Nashett

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	NORTHING: 1045701.51 EASTING: 1082077.3 GROUND SURFACE	596.49					
	Cored through ~6" thick concrete floor	596.29					
	SW-SAND, with gravel, dense, medium grained, grey, moist						
2	CL-CLAY, with sand, with gravel, dense, fine to coarse grained, plastic, brown, damp	594.49	MC1				6.7
4	- trace sand, fine grained, light brown below 4 ft BGS		SB-12				
6			MC2				3
8							
			MC3				3
10	END OF BOREHOLE @ 10.0ft BGS	586.49					
12	Auger Refusal @ 10 ft BGS						
	Sample interval @ 3.5 to 6 ft BGS						
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (SB-12)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/4/10

STRATIGRAPHIC LOG
(OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(51 Hayes Place)

HOLE DESIGNATION: SB-13-07
DATE COMPLETED: July 26, 2007
DRILLING METHOD: Direct Push
FIELD PERSONNEL: R. Nashett

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	NORTHING: 1045729.96 EASTING: 1082103.73 GROUND SURFACE	596.72					
	Cored through ~6" thick concrete floor	596.52					
	CL-GRAVELLY CLAY, dense, fine to coarse grained, non-plastic, brown, moist						
2	- fine grained, slightly plastic, light brown, below 2 ft BGS		MC1				44
4	- odor @ 4 ft BGS						
6			MC2 SB-13				101
8	- odor @ 8 ft BGS		MC3				163
10	END OF BOREHOLE @ 10.0ft BGS	586.72					
12	Auger Refusal @ 10 ft BGS						
	Sample interval @ 6 to 8 ft BGS						
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (SB-13)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/4/10

STRATIGRAPHIC LOG
(OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(51 Hayes Place)

HOLE DESIGNATION: SB-14-07
DATE COMPLETED: July 26, 2007
DRILLING METHOD: Direct Push
FIELD PERSONNEL: R. Nashett

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	NORTHING: 1045796.86 EASTING: 1082061.85 GROUND SURFACE	596.73					
	Cored through ~6" thick concrete floor	596.53					
	SW-SAND, medium grained, light brown, dry	596.23					
2	CL-CLAY, with sand, dense, fine to medium grained, light brown, damp		MC1				3.1
4	- some gravel, trace sand, fine grained below 4 ft BGS						
6			MC2 (SB-14)				3.8
8			MC3				3.4
	END OF BOREHOLE @ 9.5ft BGS	587.23					
10	Auger Refusal @ 9.5 ft BGS						
12	Sample interval @ 4 to 8 ft BGS						
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (SB-14)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/4/10

STRATIGRAPHIC LOG
(OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(51 Hayes Place)

HOLE DESIGNATION: SB-15-07
DATE COMPLETED: July 25, 2007
DRILLING METHOD: Direct Push
FIELD PERSONNEL: R. Nashett

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	NORTHING: 1045760.11 EASTING: 1082032 GROUND SURFACE	596.63					
0	Cored through ~6" thick concrete floor	596.43					
	GP-GRAVEL, with sand, medium dense, coarse grained, dry	596.13					
2	CL-CLAY, with sand, dense, fine to medium grained, plastic, light brown, slightly moist		MC1				2.3
4	- with gravel, trace sand, fine to coarse grained, plastic, moist below 4 ft BGS						
6			MC2 (SB-15)				3
8	END OF BOREHOLE @ 7.5ft BGS	589.13					
	Auger Refusal @ 7.5 ft BGS						
10	Sample interval @ 4 to 8 ft BGS						
12							
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (SB-15)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/4/10

STRATIGRAPHIC LOG
(OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(51 Hayes Place)

HOLE DESIGNATION: SB-16-07
DATE COMPLETED: July 26, 2007
DRILLING METHOD: Direct Push
FIELD PERSONNEL: R. Nashett

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	NORTHING: 1045746.76 EASTING: 1081976.1 GROUND SURFACE	596.58					
0	Cored through ~6" thick concrete floor	596.38					
	CL-GRAVELLY CLAY, dense, medium to coarse grained, non-plastic, dark grey, dry						
2	- trace gravel, fine grained below 1.5 ft BGS		MC1				7.7
4							
6			MC2 SB-16				8.4
8		588.08					
	END OF BOREHOLE @ 8.5ft BGS						
10	Auger Refusal @ 8.5 ft BGS						
	Sample interval @ 4 to 8 ft BGS						
12							
14							
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/4/10

STRATIGRAPHIC LOG
(OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(51 Hayes Place)

HOLE DESIGNATION: SB-17-07
DATE COMPLETED: July 27, 2007
DRILLING METHOD: HSA
FIELD PERSONNEL: R. Nashett

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	NORTHING: 1045673.33 EASTING: 1082150.51 GROUND SURFACE	601.85					
0	FILL-sand (SP), with gravel, with china, loose, medium to coarse grained, dark grey		SS1			24	
2			SS2			43	0.6
4			SS3			8	
6	- some clay, dark brown, slight odor below 6 ft BGS		SS4			16	53.2
8			SB-17				
10	CL-CLAY, some gravel, brown, damp, slight odor	591.85	SS5			6	9.4
12			SS6			14	5.4
14			SS7			25	5.3
16	END OF BOREHOLE @ 15.0ft BGS Auger Refusal @ 15 ft BGS	586.85	SS8			>50	
18	Sample interval @ 6 to 10 ft BGS						
20							
22							
24							
26							
28							
30							
32							
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (SB-17)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/4/10

STRATIGRAPHIC LOG
(OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(20 Hayes Place)

HOLE DESIGNATION: SB-18-08
DATE COMPLETED: May 9, 2008
DRILLING METHOD: Direct Push
FIELD PERSONNEL: J. Polovich

NORTHING: 1045062.59
EASTING: 1081677.53

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	590.99					
0	TOPSOIL	590.69					
	FILL-SAND, white fibers, dry, no odor	590.19	SB-18/MW-13				1.1
	BRICK	589.89					
2	CL-SANDY SILTY CLAY, brown, slightly moist, no odor		MC1		28		0.2
4	CL-SILTY CLAY, brown, dense, no odor, very slightly moist	586.99					0.3
6			MC2		100		0.2
8	- silt content increasing with depth below 8 ft BGS						0.2
10			MC3		100		0.2
12			MC4		100		0.5
	END OF BOREHOLE @ 12.3ft BGS	578.69					
14	Auger Refusal @ 12.3 ft BGS						
	Sample interval @ 0 to 2 ft BGS						
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/4/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(Former Buffalo China Site)

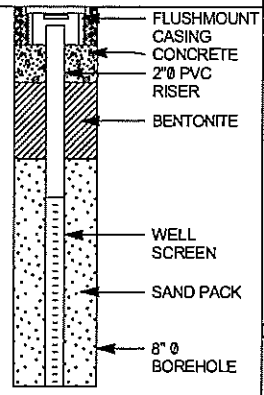
HOLE DESIGNATION: BH-2-0506 / MW-4
DATE COMPLETED: May 1, 2006
DRILLING METHOD: HSA
FIELD PERSONNEL: J. Raby

NORTHING: 1045656.54
EASTING: 1082075.64

	ELEV. ft AMSL
TOP OF CASING	596.56
GROUND SURFACE	596.42
TOP OF RISER	596.13

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL
0	GRAVEL, parking lot	595.42
	No Recovery	
4	CH-CLAY, stiff, plastic with added water, massive structure, light brown, dry	592.42
6		
	- moist below 7 ft BGS	
8		
10		
	- Refusal @ 11.3 ft BGS	585.12
12	END OF BOREHOLE @ 11.3ft BGS	
	Soil samples for chemical analysis from 0.0 to 0.5 and 8.0 to 10.0 feet BGS.	
14		
16		
18		
20		
22		
24		
26		
28		
30		
32		
34		

Monitoring Well



WELL DETAILS
Screened interval:
591.42 to 586.42ft AMSL
5.00 to 10.00ft BGS
Length: 5ft
Diameter: 2in
Slot Size: .02
Material: PVC
Seal:
594.42 to 592.42ft AMSL
2.00 to 4.00ft BGS
Material: Bentonite
Sand Pack:
592.42 to 586.42ft AMSL
4.00 to 10.00ft BGS
Material: Size 00N Sand

SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
001 SS1		0.3	14	0
SS2		0.1	9	0
SS3		1.3	14	0
SS4		1.8	11	
002 SS5		1.6	13	
SS6		0.3	>50	

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (001, 002)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(Former Buffalo China Site)

HOLE DESIGNATION: BH-5-0506 / MW-5
DATE COMPLETED: May 2, 2006
DRILLING METHOD: Direct Push / HSA
FIELD PERSONNEL: P. Kryger / J Raby

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	Monitoring Well	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	NORTHING: 1045678.56 EASTING: 1082110.42 TOP OF CASING 596.86 GROUND SURFACE 596.68 TOP OF RISER 596.58							
0	FILL, sand and gravel with trace silt, loose, coarse, no structure, gray to medium brown, dry		FLUSHMOUNT CASING	020				0
2	CL-CLAY with SILT, stiff, vertical gray mottling within orange brown, black nodules, moderately plastic	595.48	CONCRETE; 2"Ø PVC RISER	021				324
4			BENTONITE					285
6			2"Ø PVC WELL SCREEN	022				325
8			SAND PACK					4000
10	- Refusal @ 10.0 ft BGS		8" Ø BOREHOLE					325
	END OF BOREHOLE @ 10.0ft BGS	586.68						
12	Soil samples for chemical analysis from 0.5 to 1.2, 1.6 to 2.5, and 5.5 to 6.5 feet BGS. Well installed through HSA.							
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

WELL DETAILS
Screened interval:
591.68 to 586.68ft AMSL
5.00 to 10.00ft BGS
Length: 5ft
Diameter: 2in
Slot Size: .02
Material: PVC
Seal:
594.68 to 592.68ft AMSL
2.00 to 4.00ft BGS
Material: Bentonite
Sand Pack:
595.68 to 586.68ft AMSL
1.00 to 10.00ft BGS
Material: Size 00N Sand

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(Former Buffalo China Site)

HOLE DESIGNATION: MW-5A
DATE COMPLETED: December 15, 2008
DRILLING METHOD: HSA/HQ Core
FIELD PERSONNEL: J. Williams

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	NORTHING: 1045683.41 EASTING: 1082107.45 GROUND SURFACE TOP OF CASING TOP OF RISER	596.83 596.80 596.29						
0	Auger without sampling. For overburden stratigraphy, refer to log BH-5-0506/ MW-5.		FLUSHMOUNT CASING CONCRETE 4"Ø STEEL WELL RISER CEMENT/ BENTONITE GROUT 8"Ø BOREHOLE					12.5
10	END OF OVERBURDEN HOLE @ 10.5ft BGS	586.33						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER BEARING ZONE ▼

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(Former Buffalo China Site)

HOLE DESIGNATION: MW-5A
DATE COMPLETED: December 15, 2008
DRILLING METHOD: HSA/HQ Core
FIELD PERSONNEL: J. Williams

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITORING WELL	RUN NUMBER	CORE RECOVERY %	RQD %	Vol. Water (gal)
10							
	Auger Refusal - BEDROCK (Not sampled)	586.33	6"Ø ROCK SOCKET				
12							
	LIMESTONE (Onondaga formation, Moorehouse member) fine to medium grained, light to medium gray limestone, light buff to dark gray chert nodules, occasional fossils - fracture, moderately weathered, ~0.25-inch aperture @ 14.5 feet BGS	584.33	4"Ø COREHOLE	1	100	98	20
14							
16							
18	END OF BOREHOLE @ 17.5ft BGS	579.33					
20							
22							
24							
26							
28							
30							
32							
34							
36							
38							
40							
42							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

WATER BEARING ZONE ▼

BEDROCK LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(Former Buffalo China Site)

HOLE DESIGNATION: BH-3-0506 / MW-6
DATE COMPLETED: May 2, 2006
DRILLING METHOD: Direct Push / HSA
FIELD PERSONNEL: P. Kryger

NORTHING: 1045600.18
EASTING: 1081969.89

	ELEV. ft AMSL
TOP OF CASING	594.40
GROUND SURFACE	594.31
TOP OF RISER	594.15

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL
0	FILL, sand and gravel with trace silt, loose, coarse, no structure, gray to medium brown, dry	593.31
2	FILL, clay and red brick, slightly plastic, no structure, medium brown and red, dry to slighty damp	591.51
4	CL-CLAY with SILT, stiff, vertical gray mottling within orange brown, black nodules, moderately plastic	
6		
8		
9.7	- Refusal @ 9.7 ft BGS	
10	END OF BOREHOLE @ 9.7ft BGS	584.61
12	Soil samples for chemical analysis from 0.5 to 1.0, 2.4 to 3.0, and 8.0 to 10.0 feet BGS. Well installed through HSA.	
14		
16		
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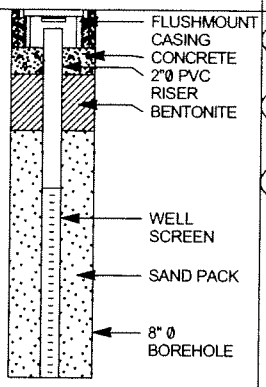
22		
24		
26		
28		
30		
32		
34		

Monitoring Well



WELL DETAILS
Screened interval:
589.61 to 584.61ft AMSL
4.70 to 9.70ft BGS
Length: 5ft
Diameter: 2in
Slot Size: .02
Material: PVC
Seal:
592.61 to 590.61ft AMSL
1.70 to 3.70ft BGS
Material: Bentonite
Sand Pack:
590.61 to 584.61ft AMSL
3.70 to 9.70ft BGS
Material: Size 00N Sand

SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
027				0
028				
029				

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (027)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(Former Buffalo China Site)

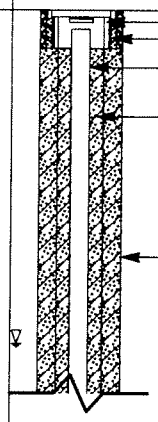
HOLE DESIGNATION: MW-6A
DATE COMPLETED: June 3, 2009
DRILLING METHOD: 6.25 HSA/HQ Core
FIELD PERSONNEL: J. Williams

NORTHING: 1045603.01
EASTING: 1081967.92

	ELEV. ft AMSL
TOP OF CASING	594.58
GROUND SURFACE	594.44
TOP OF RISER	594.15

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL
0	ML-SILT, roots and vegetation, dark brown, moist (TOPSOIL)	594.24
2	ML-SILT, some fine sand, little angular gravel, gray-brown, dry (FILL) - becoming moist @ 0.7 ft BGS - red brick between between 0.9 and 1 ft BGS	
4		590.44
6	CL-CLAY, little silt, stiff, brown with yellow mottling, moist (NATIVE)	
8		
10		585.64
	ML-SILT, some clay, little fine sand and gravel, soft, brown, wet (TILL)	584.44
	NOT SAMPLED -Auger Refusal - bedrock encountered @ 10.1 ft BGS	584.34
12	END OF OVERBURDEN HOLE @ 10.1ft BGS	
14		
16		
18		
20		
22		
24		
26		
28		
30		
32		
34		

MONITORING WELL



SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
SS1		1.0	15	0
SS2		0.8	12	0
SS3		1.7	11	0
SS4		2.0	18	1.0
SS5		2.0	10	0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ WATER BEARING ZONE ▼
CHEMICAL ANALYSIS ⬭

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(Former Buffalo China Site)

HOLE DESIGNATION: MW-6A
DATE COMPLETED: June 3, 2009
DRILLING METHOD: 6.25 HSA/HQ Core
FIELD PERSONNEL: J. Williams

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITORING WELL	RUN NUMBER	CORE RECOVERY %	RQD %	Vol. Water (gal)
	ML-SILT, some clay, little fine sand and gravel, soft, brown, wet (TILL)	585.64	6"Ø ROCK SOCKET				
10	NOT SAMPLED -Auger Refusal - bedrock encountered @ 10.1 ft BGS	584.44 584.34					
12	BEDROCK (Not sampled)	582.34	4"Ø COREHOLE				
14	LIMESTONE (Onondaga formation, Moorehouse member) fine to medium grained, light to medium gray limestone, light buff to dark gray chert nodules, occasional fossils			1	100	86	0
16							
18							
20	- fracture, moderately weathered, bedding plane parallel below 19.5 ft BGS			2	100	90	60
22	END OF BOREHOLE @ 21.4ft BGS	573.04					
24							
26							
28							
30							
32							
34							
36							
38							
40							
42							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ⊽ WATER BEARING ZONE ⧩
CHEMICAL ANALYSIS ⬭

BEDROCK LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(Former Buffalo China Site)

HOLE DESIGNATION: BH-14-0506 / MW-7
DATE COMPLETED: May 2, 2006
DRILLING METHOD: Direct Push / HSA
FIELD PERSONNEL: P. Kryger / J Raby

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	Monitoring Well	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	NORTHING: 1045333.81 EASTING: 1082122.73 TOP OF CASING 592.61 GROUND SURFACE 592.48 TOP OF RISER 592.03							
0	FILL, clay and red brick, slightly plastic, no structure, medium brown and red, dry to slighty damp		FLUSHMOUNT CASING; CONCRETE; 2"Ø PVC RISER; BENTONITE	030				0
2								
4	CL-CLAY with SILT, stiff, vertical gray mottling within orange brown, black nodules, moderately plastic	589.48		031				0
6			WELL SCREEN; SAND PACK					0
8	- Refusal @ 8.7 ft BGS		8" Ø BOREHOLE					
10	END OF BOREHOLE @ 8.7ft BGS Soil samples for chemical analysis from 0.5 to 1.5 and 2.5 to 3.0 feet BGS. Well installed through HSA.	583.78	WELL DETAILS Screened interval: 588.78 to 583.78ft AMSL 3.70 to 8.70ft BGS Length: 5ft Diameter: 2in Slot Size: .02 Material: PVC Seal: 590.78 to 589.28ft AMSL 1.70 to 3.20ft BGS Material: Bentonite Sand Pack: 589.28 to 583.78ft AMSL 3.20 to 8.70ft BGS Material: Size 00N Sand					
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(Former Buffalo China Site)

HOLE DESIGNATION: MW-7A
DATE COMPLETED: December 12, 2008
DRILLING METHOD: HSA/HQ Core
FIELD PERSONNEL: J. Williams

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	NORTHING: 1045338.18 TOP OF CASING EASTING: 1082119.63 GROUND SURFACE TOP OF RISER	592.68 592.54 592.31						
0	Auger without sampling. For overburden stratigraphy, refer to log BH-14-0506/ MW-7.		FLUSHMOUNT CASING CONCRETE 4"Ø STEEL WELL RISER CEMENT/ BENTONITE GROUT 8"Ø BOREHOLE					0.9
9.1	END OF OVERBURDEN HOLE @ 9.1ft BGS	583.44						0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER BEARING ZONE ▼

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(Former Buffalo China Site)

HOLE DESIGNATION: MW-7A
DATE COMPLETED: December 12, 2008
DRILLING METHOD: HSA/HQ Core
FIELD PERSONNEL: J. Williams

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITORING WELL	RUN NUMBER	CORE RECOVERY %	RQD %	Vol. Water (gal)
		583.44	6"Ø ROCK SOCKET				
10	Auger Refusal - BEDROCK (Not sampled)						
		581.44	4"Ø COREHOLE				
12	LIMESTONE (Onondaga formation, Moorehouse member) fine to medium grained, light to medium gray limestone, light buff to dark gray chert nodules, occasional fossils			1	92	90	20
14	- fracture, moderately weathered @ 14.5 feet BGS		▼				
16	END OF BOREHOLE @ 16.1ft BGS	576.44					
18							
20							
22							
24							
26							
28							
30							
32							
34							
36							
38							
40							
42							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER BEARING ZONE ▼

BEDROCK LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(Former Buffalo China Site)

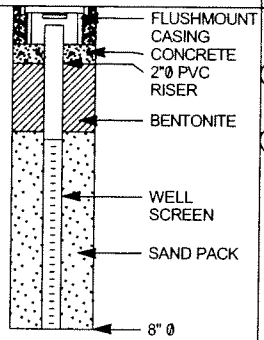
HOLE DESIGNATION: BH-15-0506 / MW-8
DATE COMPLETED: May 2, 2006
DRILLING METHOD: Direct Push / HSA
FIELD PERSONNEL: P. Kryger / J Raby

NORTHING: 1045332.04
EASTING: 1082477.03

	ELEV. ft AMSL
TOP OF CASING	594.61
GROUND SURFACE	594.49
TOP OF RISER	594.00

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL
2	FILL, sand and gravel with trace silt, loose, coarse, no structure, gray to medium brown, dry	
4	CL-CLAY with SILT, stiff, vertical gray mottling within orange brown, black nodules, moderately plastic	591.49
6		
8	Not Sampled	586.99
10		
12	CH-CLAY, stiff, plastic with added water, massive structure, light brown, dry	582.49
14		
16	- Refusal @ 16.9 ft BGS	
	END OF BOREHOLE @ 16.9ft BGS	577.59
18	Soil samples for chemical analysis from 1.5 to 2.0 and 3.0 to 3.5 feet BGS. Well installed throught HSA.	
20		
22		
24		
26		
28		
30		
32		
34		

Monitoring Well



WELL DETAILS
Screened interval:
590.99 to 585.99ft AMSL
3.50 to 8.50ft BGS
Length: 5ft
Diameter: 2in
Slot Size: .02
Material: PVC
Seal:
592.99 to 591.19ft AMSL
1.50 to 3.30ft BGS
Material: Bentonite
Sand Pack:
591.19 to 585.99ft AMSL
3.30 to 8.50ft BGS
Material: Size 00N Sand

SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
007				0
008				0
SS1			5	
SS2			4	
SS3			>50	

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (007)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(Former Buffalo China Site)

HOLE DESIGNATION: BH-1-0506 / MW-9
DATE COMPLETED: May 2, 2006
DRILLING METHOD: Direct Push / HSA
FIELD PERSONNEL: P. Kryger

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	Monitoring Well	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	NORTHING: 1045861.83 EASTING: 1082141 TOP OF CASING TOP OF RISER GROUND SURFACE	595.12 594.81 594.66						
2	FIL, sand and gravel, non-plastic, no structure, medium brown to gray, damp, loose		FLUSHMOUNT CASING CONCRETE BENTONITE 2"Ø PVC RISER	023				0
	FILL- sand, well sorted fine grained, loose, medium to dark brown, damp	592.26						
4	CL- CLAY with SILT, stiff, vertical gray mottling within orange brown, black nodules, moderately plastic	591.56		024				0
6			WELL SCREEN SAND PACK					0
	- Refusal @ 7.5 ft BGS		8" Ø BOREHOLE					
8	END OF BOREHOLE @ 7.5ft BGS	587.16						
10	Soil samples for chemical analysis from 0.5 to 1.0 and 2.0 to 2.4 feet BGS. Well installed through HSA.							
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

WELL DETAILS
Screened interval:
592.66 to 587.66ft AMSL
2.00 to 7.00ft BGS
Length: 5ft
Diameter: 2in
Slot Size: .02
Material: PVC
Seal:
593.66 to 593.16ft AMSL
1.00 to 1.50ft BGS
Material: Bentonite
Sand Pack:
593.16 to 587.66ft AMSL
1.50 to 7.00ft BGS
Material: Size 00N Sand

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (○)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(Former Buffalo China Site)

HOLE DESIGNATION: MW-9A
DATE COMPLETED: December 15, 2008
DRILLING METHOD: HSA/HQ Core
FIELD PERSONNEL: J. Williams

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	NORTHING: 1045866.07 EASTING: 1082139.17 TOP OF CASING / GROUND SURFACE / TOP OF RISER	595.12 / 594.98 / 594.94						
0	Auger without sampling. For overburden stratigraphy, refer to log MW-9.		FLUSHMOUNT CASING; CONCRETE; 4"Ø STEEL WELL RISER; CEMENT/ BENTONITE GROUT; 8"Ø BOREHOLE					0
8	END OF OVERBURDEN HOLE @ 7.2ft BGS	587.78						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

WATER BEARING ZONE ▼

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(Former Buffalo China Site)

HOLE DESIGNATION: MW-9A
DATE COMPLETED: December 15, 2008
DRILLING METHOD: HSA/HQ Core
FIELD PERSONNEL: J. Williams

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITORING WELL	RUN NUMBER	CORE RECOVERY %	RQD %	Vol. Water (gal)
8	Auger Refusal - BEDROCK (Not sampled)	587.78	8"Ø BOREHOLE; 6"Ø ROCK SOCKET				
10	LIMESTONE (Onondaga formation, Moorehouse member) fine to medium grained, light to medium gray limestone, light buff to dark gray chert nodules, occasional fossils	585.78					
12			4"Ø COREHOLE	1	106	106	0
14							
16				2	96	100	0
18							
20							
22				3	100	100	0
24							
26	- fracture, moderately weathered, ~0.25-inch aperture @ 25.5 feet BGS		▼	4	100	96	25
28	END OF BOREHOLE @ 27.0ft BGS	567.98					
30							
32							
34							
36							
38							
40							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER BEARING ZONE ▼

BEDROCK LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(118 Harrison Street)

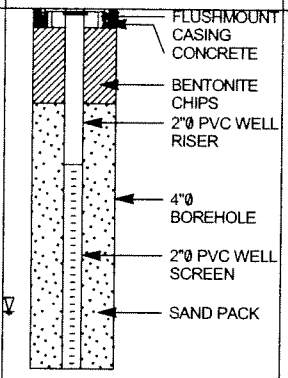
HOLE DESIGNATION: MW-10
DATE COMPLETED: August 12, 2008
DRILLING METHOD: Direct Push/HSA
FIELD PERSONNEL: C. Barton

NORTHING: 1045981.14
EASTING: 1081729.8

	ELEV. ft AMSL
TOP OF CASING	596.82
GROUND SURFACE	596.75
TOP OF RISER	596.45

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL
0	TOPSOIL	596.45
	CLS-SANDY CLAY, brown, damp	
4	- trace gravel below 4 ft BGS	
8	SC-CLAYEY SAND, some gravel, brown-gray, wet	588.75
10	END OF BOREHOLE @ 9.8ft BGS	586.95
	Auger Refusal @ 9.8 ft BGS	

MONITORING WELL



WELL DETAILS
Screened interval:
592.25 to 587.25ft AMSL
4.50 to 9.50ft BGS
Length: 5ft
Diameter: 2in
Slot Size: 0.010
Material: PVC
Seal:
596.75 to 594.25ft AMSL
0.00 to 2.50ft BGS
Material: BENTONITE
Sand Pack:
594.25 to 587.25ft AMSL
2.50 to 9.50ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
SS1		4.0		0
				0
SS2		1.5		0
SS3		1.0		0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(ROW Behind 141 Milton St)

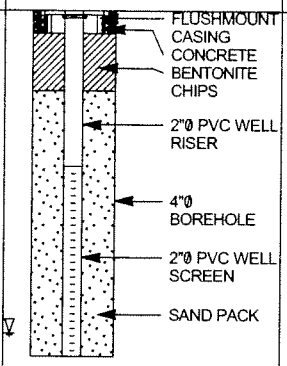
HOLE DESIGNATION: MW-11
DATE COMPLETED: August 12, 2008
DRILLING METHOD: Direct Push/HSA
FIELD PERSONNEL: C. Barton

NORTHING: 1045821.59
EASTING: 1081985.27

TOP OF CASING 595.23
GROUND SURFACE 595.11
TOP OF RISER 595.04

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL
0	BRICK, red	
	GW-SANDY GRAVEL, brown, dry	594.11
2	CLS-SANDY CLAY, brown, damp	593.81
4		
6		
	- soft, moist below 7 ft BGS	
8		
	SC-CLAYEY SAND, some gravel, wet	586.61
	END OF BOREHOLE @ 9.1ft BGS	586.01
10	Auger Refusal @ 9.1 ft BGS	
12		
14		
16		
18		
20		
22		
24		
26		
28		
30		
32		
34		

MONITORING WELL



WELL DETAILS
Screened interval:
591.01 to 586.01ft AMSL
4.10 to 9.10ft BGS
Length: 5ft
Diameter: 2in
Slot Size: 0.010
Material: PVC
Seal:
594.51 to 593.01ft AMSL
0.60 to 2.10ft BGS
Material: BENTONITE
Sand Pack:
593.01 to 586.01ft AMSL
2.10 to 9.10ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
				0
SS1		3.0		0
				0
SS2		4.0		0.1
SS3		1.1		2.8

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(Former Buffalo China Site)

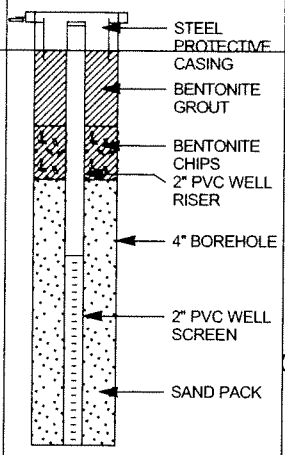
HOLE DESIGNATION: SB-6-07/ MW-12
DATE COMPLETED: July 30, 2007
DRILLING METHOD: HSA
FIELD PERSONNEL: C. Barton

NORTHING: 1045706.37
EASTING: 1082130.81

	ELEV. ft AMSL
TOP OF CASING	599.94
TOP OF RISER	599.83
GROUND SURFACE	597.40

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL
0	FILL, sand, some fine gravel, brown, dry	
2	- some glass, trace gravel, black below 2 ft BGS	
4	CLS-SANDY CLAY, trace fine gravel, brown, damp	593.40
6	- piece of wood @ 6 ft BGS	
8		
10	END OF BOREHOLE @ 10.4ft BGS	587.00
12	Auger Refusal @ 10.4 ft BGS	
14	Sample interval @ 6 to 10.4 ft BGS	
16		
18		
20		
22		
24		
26		
28		
30		
32		
34		

MONITORING WELL



WELL DETAILS
Screened interval:
592.00 to 587.00ft AMSL
5.40 to 10.40ft BGS
Length: 5ft
Diameter: 2in
Slot Size: 0.010
Material: PVC
Seal:
595.40 to 594.00ft AMSL
2.00 to 3.40ft BGS
Material: Bentonite
Sand Pack:
594.00 to 587.00ft AMSL
3.40 to 10.40ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
SS1		2.0	23	21.2
SS2		2.0	13	50.9
SS3		2.0	13	18.7
SS4		2.0	23	162
SB-6/ MW-12 SS5		2.0	30	372
SS6		0.4	>50	386

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(Former Buffalo China Site)

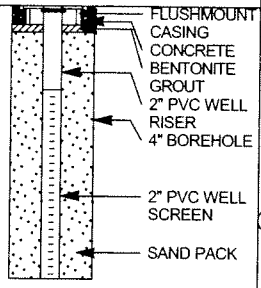
HOLE DESIGNATION: SB-18-07/ MW-13
DATE COMPLETED: July 30, 2007
DRILLING METHOD: HSA
FIELD PERSONNEL: C. Barton

NORTHING: 1045678.31
EASTING: 1081889.55

TOP OF CASING 595.12
GROUND SURFACE 594.89
TOP OF RISER 594.83

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL
0	SP-SAND, some fine gravel, brown, dry	
2		592.89
	SC-CLAYEY SAND, some fine gravel, brown	
4		590.89
	CLS-SANDY CLAY, damp	
6		
		587.69
8	END OF BOREHOLE @ 7.2ft BGS	
	Auger Refusal @ 7.2 ft BGS	
10	Sample interval @ 4 to 7.2 ft BGS	
12		
14		
16		
18		
20		
22		
24		
26		
28		
30		
32		
34		

MONITORING WELL



WELL DETAILS
Screened interval:
592.69 to 587.69ft AMSL
2.20 to 7.20ft BGS
Length: 5ft
Diameter: 2in
Slot Size: 0.02
Material: PVC
Sand Pack:
594.69 to 587.69ft AMSL
0.20 to 7.20ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
SS1		1.0	13	0.8
SS2		2.0	12	0.5
SS3		2.0	17	0
SB-18				
SS4		1.2	>50	0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (SB-18)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(Former Buffalo China Site)

HOLE DESIGNATION: MW-13A
DATE COMPLETED: December 15, 2008
DRILLING METHOD: HSA/HQ Core
FIELD PERSONNEL: J. Williams

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	NORTHING: 1045673.86 EASTING: 1081890.61 TOP OF CASING GROUND SURFACE TOP OF RISER	594.97 594.81 594.75						
0	Auger without sampling. For overburden stratigraphy, refer to log MW-13.		FLUSHMOUNT CASING CONCRETE 4"Ø STEEL WELL RISER CEMENT/ BENTONITE GROUT 8"Ø BOREHOLE					0
8	END OF OVERBURDEN HOLE @ 7.9ft BGS	586.91						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(Former Buffalo China Site)

HOLE DESIGNATION: MW-13A
DATE COMPLETED: December 15, 2008
DRILLING METHOD: HSA/HQ Core
FIELD PERSONNEL: J. Williams

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITORING WELL	RUN NUMBER	CORE RECOVERY %	RQD %	Vol. Water (gal)
8	Auger Refusal - BEDROCK (Not sampled)	586.91	8"Ø BOREHOLE; 6"Ø ROCK SOCKET				
10	LIMESTONE (Onondaga formation, Moorehouse member) fine to medium grained, light to medium gray limestone, light buff to dark gray chert nodules, occasional fossils	584.91	4"Ø COREHOLE	1	100	88	30
14	END OF BOREHOLE @ 14.9ft BGS	579.91					
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							
36							
38							
40							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

BEDROCK LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(103 Harrison Street)

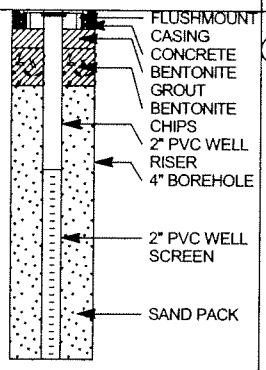
HOLE DESIGNATION: MW-14
DATE COMPLETED: May 8, 2008
DRILLING METHOD: Direct Push
FIELD PERSONNEL: J. Polovich

NORTHING: 1045590.78
EASTING: 1081680.35

	ELEV. ft AMSL
TOP OF CASING	593.51
GROUND SURFACE	593.51
TOP OF RISER	593.15

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL
0	TOPSOIL, black, moist, organics	592.71
2	CL-SANDY SILTY CLAY, brown, slightly moist, dense, minor sand lenses	
4		
6		
8		
9.2	END OF BOREHOLE @ 9.2ft BGS	584.31
10	Auger Refusal @ 9.2 ft BGS	
12	Sample interval @ 0 to 2 ft BGS	
14		
16		
18		
20		
22		
24		
26		
28		
30		
32		
34		

MONITORING WELL



WELL DETAILS
Screened interval:
589.31 to 584.31ft AMSL
4.20 to 9.20ft BGS
Length: 5ft
Diameter: 2in
Slot Size: 0.010
Material: PVC
Sand Pack:
591.51 to 584.31ft AMSL
2.00 to 9.20ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
MW-14				11.8
MC1		3.6		3.4
				3.6
MC2		4.0		4.6
MC3		1.2		2.4

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(103 Harrison Street)

HOLE DESIGNATION: MW-14A
DATE COMPLETED: December 16, 2008
DRILLING METHOD: HSA/HQ Core
FIELD PERSONNEL: J. Williams

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE 'N' VALUE
	NORTHING: 1045585.17 TOP OF CASING EASTING: 1081683.81 GROUND SURFACE TOP OF RISER	593.77 593.65 593.37					
0	Auger without sampling. For overburden stratigraphy, refer to log MW-14.		FLUSHMOUNT CASING CONCRETE 4"Ø STEEL WELL RISER CEMENT/ BENTONITE GROUT 8"Ø BOREHOLE				
8.6	END OF OVERBURDEN HOLE @ 8.6ft BGS	585.05					

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

WATER BEARING ZONE ▼

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(103 Harrison Street)

HOLE DESIGNATION: MW-14A
DATE COMPLETED: December 16, 2008
DRILLING METHOD: HSA/HQ Core
FIELD PERSONNEL: J. Williams

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITORING WELL	RUN NUMBER	CORE RECOVERY %	RQD %	Vol. Water (gal)
8			8"Ø BOREHOLE				
	Auger Refusal - BEDROCK (Not sampled)	585.05	6"Ø ROCK SOCKET				
10	LIMESTONE (Onondaga formation, Moorehouse member) fine to medium grained, light to medium gray limestone, light buff to dark gray chert nodules, occasional fossils	583.45					
12			4"Ø COREHOLE	1	99	95	35
14	- fracture, moderately weathered, ~0.25-inch aperture @ 13.2 feet BGS		▼				
	END OF BOREHOLE @ 15.2ft BGS	578.45					
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							
36							
38							
40							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

WATER BEARING ZONE ▼

BEDROCK LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(58 Lester Street)

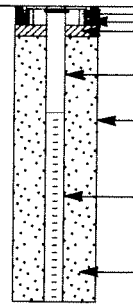
HOLE DESIGNATION: MW-15
DATE COMPLETED: May 8, 2008
DRILLING METHOD: Direct Push/HSA
FIELD PERSONNEL: J. Polovich

NORTHING: 1045417.13
EASTING: 1081871.04

	ELEV. ft AMSL
TOP OF CASING	592.86
GROUND SURFACE	592.73
TOP OF RISER	592.49

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL
0	TOPSOIL, black, moist, organics present, loose - white fibrous material at contact of topsoil and clay @ 0.4 ft BGS	592.33
2	FILL-SILTY SANDY CLAY, dark brown, organics present (wood, roots), bits of brick, pockets of sand, small rock fragments, no odor	
4	- dense, small rock fragments, slightly moist below 0.8 ft BGS	
6		
8	END OF BOREHOLE @ 7.8ft BGS Auger Refusal @ 7.8 ft BGS	584.93
10		
12		
14		
16		
18		
20		
22		
24		
26		
28		
30		
32		
34		

MONITORING WELL



WELL DETAILS
Screened interval:
589.93 to 584.93ft AMSL
2.80 to 7.80ft BGS
Length: 5ft
Diameter: 2in
Slot Size: 0.010
Material: PVC
Sand Pack:
591.93 to 584.93ft AMSL
0.80 to 7.80ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
				0.6
				0-0.2
MC1		0.8		
MC2		3.8		0-0.4
				0-0.2

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(58 Lester Street)

HOLE DESIGNATION: MW-15A
DATE COMPLETED: December 12, 2008
DRILLING METHOD: HSA/HQ Core
FIELD PERSONNEL: J. Williams

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	NORTHING: 1045421.9 EASTING: 1081877.4 TOP OF CASING 592.90 GROUND SURFACE 592.82 TOP OF RISER 592.70							
0	Auger without sampling. For overburden stratigraphy, refer to log MW-15.		FLUSHMOUNT CASING CONCRETE 4"Ø STEEL WELL RISER; CEMENT/ BENTONITE GROUT; 8"Ø BOREHOLE					0
8	END OF OVERBURDEN HOLE @ 7.9ft BGS	584.92						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

WATER BEARING ZONE ▼

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(58 Lester Street)

HOLE DESIGNATION: MW-15A
DATE COMPLETED: December 12, 2008
DRILLING METHOD: HSA/HQ Core
FIELD PERSONNEL: J. Williams

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITORING WELL	RUN NUMBER	CORE RECOVERY %	RQD %	Vol. Water (gal)
8	Auger Refusal - BEDROCK (Not sampled)	584.92	8"Ø BOREHOLE; 6"Ø ROCK SOCKET				
10	LIMESTONE (Onondaga formation, Moorehouse member) fine to medium grained, light to medium gray limestone, light buff to dark gray chert nodules, occasional fossils - fracture, slightly weathered, ~0.25-inch aperture @ 10.5 feet BGS	582.92	4"Ø COREHOLE	1	93	87	50
12							
14	END OF BOREHOLE @ 14.4ft BGS	578.42					
16							
18							
20							
22							
24							
26							
28							
30							
32							
34							
36							
38							
40							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER BEARING ZONE ▼

BEDROCK LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(36 Lester Street)

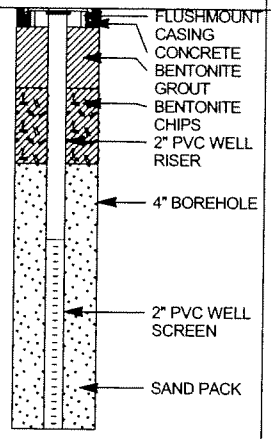
HOLE DESIGNATION: MW-16
DATE COMPLETED: May 8, 2008
DRILLING METHOD: Direct Push/HSA
FIELD PERSONNEL: J. Polovich

NORTHING: 1045299.62
EASTING: 1081663.63

	ELEV. ft AMSL
TOP OF CASING	592.10
GROUND SURFACE	592.10
TOP OF RISER	591.74

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL
0	TOPSOIL	591.80
	- brick fragments @ 0.3 ft BGS	
2	CL-SILTY SANDY CLAY, brown, slightly moist, minor sand lenses, no odor	
4		
6		
8		
10	CL-CLAY, gray, moist, soft, malleable, no odor	583.00
12	END OF BOREHOLE @ 11.1ft BGS	581.00
	Auger Refusal @ 11.1 ft BGS	
14		
16		
18		
20		
22		
24		
26		
28		
30		
32		
34		

MONITORING WELL



WELL DETAILS
Screened interval:
586.00 to 581.00ft AMSL
6.10 to 11.10ft BGS
Length: 5ft
Diameter: 2in
Slot Size: 0.010
Material: PVC
Sand Pack:
588.00 to 581.00ft AMSL
4.10 to 11.10ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
				0-1.6
MC1		3.3		0-0.7
MC2		4.0		0-0.9
MC3		3.1		2.6
				0-0.6

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(34 Hayes Place)

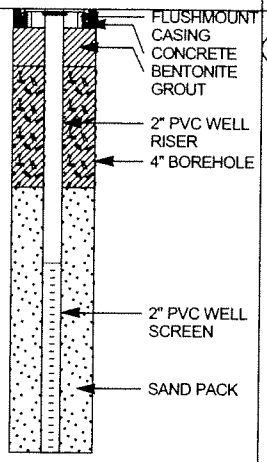
HOLE DESIGNATION: MW-17
DATE COMPLETED: May 9, 2008
DRILLING METHOD: Direct Push/HSA
FIELD PERSONNEL: J. Polovich

NORTHING: 1045150.92
EASTING: 1081876.49

	ELEV. ft AMSL
TOP OF CASING	592.80
GROUND SURFACE	592.80
TOP OF RISER	592.58

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL
0	TOPSOIL	592.70
	FILL (GRAVEL)	591.80
2	FILL-SAND, fine grained, brown, slightly moist, no odor	590.80
	CL-SILTY CLAY, brown, very slightly moist, dense, no odor	
4		
6		
8		584.60
	CL-SANDY CLAY, fine to medium grained, brown, moist, soft, no odor	
10		582.30
	CL-CLAY, gray, moist, soft, malleable, no odor	
12	END OF BOREHOLE @ 11.7ft BGS	581.10
	Auger Refusal @ 11.7 ft BGS	
14	Sample interval @ 0 to 2 ft BGS	
16		
18		
20		
22		
24		
26		
28		
30		
32		
34		

MONITORING WELL



WELL DETAILS
Screened interval:
586.10 to 581.10ft AMSL
6.70 to 11.70ft BGS
Length: 5ft
Diameter: 2in
Slot Size: 0.010
Material: PVC
Sand Pack:
588.10 to 581.10ft AMSL
4.70 to 11.70ft BGS
Material: SAND

SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
MW-17				1.4
MC1		3.1		0.3
				0.2
MC2		4.0		0.2
				0.2
MC3		3.7		0.2

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (MW-17)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(Former Buffalo China Site)

HOLE DESIGNATION: MW-18
DATE COMPLETED: December 9, 2008
DRILLING METHOD: HSA
FIELD PERSONNEL: J. Williams

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	NORTHING: 1045744.51 EASTING: 1082035.77 GROUND SURFACE TOP OF CASING TOP OF RISER	596.62 596.56 596.13						
0	CONCRETE	596.12	FLUSHMOUNT CASING CONCRETE BENTONITE CHIPS 2"Ø PVC WELL RISER					
2	Auger without sampling. For overburden stratigraphy, refer to log SB-15-07.							
4								
6			8"Ø BOREHOLE					0.3
8			2"Ø PVC WELL SCREEN					
10	- Auger Refusal - BEDROCK (Not sampled) @ 10.2	586.42	SAND PACK					
12	END OF BOREHOLE @ 10.2ft BGS							
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

WELL DETAILS
Screened interval:
591.42 to 586.42ft AMSL
5.20 to 10.20ft BGS
Length: 5ft
Diameter: 2in
Slot Size: 0.010
Material: PVC
Seal:
595.12 to 593.62ft AMSL
1.50 to 3.00ft BGS
Material: Bentonite
Sand Pack:
593.62 to 586.42ft AMSL
3.00 to 10.20ft BGS
Material: Size 00N Sand

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(Former Buffalo China Site)

HOLE DESIGNATION: MW-18A
DATE COMPLETED: May 29, 2009
DRILLING METHOD: 6.25 HSA/HQ Core
FIELD PERSONNEL: J. Williams

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITOR INSTALLATION	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE 'N' VALUE
	NORTHING: 1045740.8 EASTING: 1082030.73 GROUND SURFACE TOP OF CASING TOP OF RISER	596.62 596.62 596.35					
0	NOT SAMPLED-augered without sampling.		FLUSHMOUNT CASING CONCRETE 4"Ø STEEL WELL RISER CEMENT/ BENTONITE GROUT 8"Ø BOREHOLE				
10	- Auger Refusal - bedrock encountered @ 10.1 ft BGS END OF OVERBURDEN HOLE @ 10.1ft BGS	586.52					

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(Former Buffalo China Site)

HOLE DESIGNATION: MW-18A
DATE COMPLETED: May 29, 2009
DRILLING METHOD: 6.25 HSA/HQ Core
FIELD PERSONNEL: J. Williams

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITOR INSTALLATION	RUN NUMBER	CORE RECOVERY %	RQD %	Vol. Water (gal)
10	- Auger Refusal - bedrock encountered @ 10.1 ft BGS	586.52	6"Ø ROCK SOCKET				
	BEDROCK (Not sampled)	585.62					
12	LIMESTONE (Onondaga formation, Moorehouse member) fine to medium grained, light to medium gray limestone, light buff to dark gray chert nodules, occasional fossils		4"Ø COREHOLE	1	100	84	10
14							
16	END OF BOREHOLE @ 16.0ft BGS	580.62					
18							
20							
22							
24							
26							
28							
30							
32							
34							
36							
38							
40							
42							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

BEDROCK LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(Former Buffalo China Site)

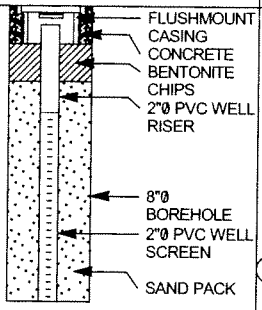
HOLE DESIGNATION: MW-19
DATE COMPLETED: June 4, 2009
DRILLING METHOD: 4.25 HSA
FIELD PERSONNEL: J. Williams

NORTHING: 1045627.31
EASTING: 1082167.47

	ELEV. ft AMSL
TOP OF CASING	594.12
GROUND SURFACE	594.12
TOP OF RISER	593.68

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL
0	ASPHALT	593.92
	ML-SILT, some fine sand and gravel, brown, gray, dry (FILL)	593.52
2	CL-CLAY, little silt, stiff, brown with yellow mottling, dry to moist (NATIVE)	
4	- medium plasticity, becoming very moist below 3 ft BGS	
6	ML-SILT, some fine sand, little clay and gravel, tan, brown, moist to wet (TILL)	589.12
8	NOT SAMPLED	586.42
	END OF BOREHOLE @ 7.8ft BGS	586.32
10	Auger Refusal @ 7.8 ft BGS	
12		
14		
16		
18		
20		
22		
24		
26		
28		
30		
32		
34		

MONITORING WELL



WELL DETAILS
Screened interval:
591.32 to 586.32ft AMSL
2.80 to 7.80ft BGS
Length: 5ft
Diameter: 2in
Slot Size: 0.010
Material: PVC
Seal:
593.12 to 592.12ft AMSL
1.00 to 2.00ft BGS
Material: Bentonite
Sand Pack:
592.12 to 586.32ft AMSL
2.00 to 7.80ft BGS
Material: Size 00N Sand

SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
SS1		1.5	13	1.5
SS2		1.8	12	3.0
SS3		2.0	12	1.3
SS4		1.5	37	56.1

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (SS4)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(Former Buffalo China Site)

HOLE DESIGNATION: MW-19A
DATE COMPLETED: June 4, 2009
DRILLING METHOD: 6.25 HSA/HQ Core
FIELD PERSONNEL: J. Williams

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	NORTHING: 1045625.13 EASTING: 1082162.59 TOP OF CASING GROUND SURFACE TOP OF RISER	594.26 594.20 593.82						
0	ASPHALT	594.00	FLUSHMOUNT CASING					
	ML-SILT, some fine to medium sand and gravel, gray, brown, dry (FILL)	593.50	CONCRETE	SS1		1.5	10	5.5
2	CL-CLAY, little silt, stiff, brown with yellow mottling, moist (NATIVE)		4"Ø STEEL WELL RISER					
4			CEMENT/ BENTONITE GROUT	SS2		1.7	9	15.0
	ML-SILT, some fine sand and clay, trace gravel, soft, tan, brown, very moist (TILL)	589.30		SS3		1.7	19	3.7
6	- wet below 7 ft BGS							
8	NOT SAMPLED	586.30	8"Ø BOREHOLE	SS4			11	231
	-Auger Refusal - bedrock encountered @ 8 ft BGS	586.20						
10	END OF OVERBURDEN HOLE @ 8.0ft BGS							
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG
(BEDROCK)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(Former Buffalo China Site)

HOLE DESIGNATION: MW-19A
DATE COMPLETED: June 4, 2009
DRILLING METHOD: 6.25 HSA/HQ Core
FIELD PERSONNEL: J. Williams

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITORING WELL	RUN NUMBER	CORE RECOVERY %	RQD %	Vol. Water (gal)
	- wet below 7 ft BGS		8"Ø BOREHOLE				
8	NOT SAMPLED -Auger Refusal - bedrock encountered @ 8 ft BGS	586.30 586.20	6"Ø ROCK SOCKET				
10	BEDROCK (Not sampled)	584.10	4"Ø COREHOLE				
12	LIMESTONE (Onondaga formation, Moorehouse member) fine to medium grained, light to medium gray limestone, light buff to dark gray chert nodules, occasional fossils			1	96	92	0
14							
16				2	104	94	0
18							
20							
22				3	100	90	30
24							
	END OF BOREHOLE @ 25.1ft BGS	569.10					
26							
28							
30							
32							
34							
36							
38							
40							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

BEDROCK LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

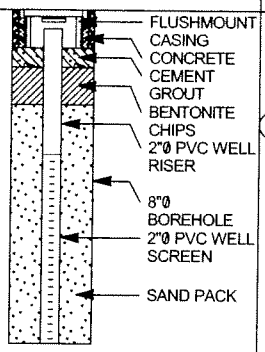
PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(Former Buffalo China Site)

HOLE DESIGNATION: MW-20
DATE COMPLETED: June 3, 2009
DRILLING METHOD: 4.25 HSA
FIELD PERSONNEL: J. Williams

NORTHING: 1045528.85
EASTING: 1082031.52

	ELEV. ft AMSL
TOP OF CASING	593.65
GROUND SURFACE	593.59
TOP OF RISER	593.32

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL
0	ML-SILT, some angular gravel, brown, gray, dry (TOPSOIL/FILL)	593.29
2	ML-SILT, some angular gravel, brown, gray, dry (FILL)	591.39
4	CL-CLAY, little silt, stiff, brown with yellow mottling, moist (NATIVE)	
6		
8	ML-SILT, some fine sand, little gravel, dense, brown, moist to wet (TILL)	585.79
10	END OF BOREHOLE @ 8.8ft BGS	584.79
12	Auger Refusal @ 8.8 ft BGS	
14		
16		
18		
20		
22		
24		
26		
28		
30		
32		
34		



WELL DETAILS
Screened interval:
589.79 to 584.79ft AMSL
3.80 to 8.80ft BGS
Length: 5ft
Diameter: 2in
Slot Size: 0.010
Material: PVC
Seal:
591.09 to 584.79ft AMSL
2.50 to 8.80ft BGS
Material: Bentonite
Sand Pack:
592.09 to 591.09ft AMSL
1.50 to 2.50ft BGS
Material: Size 00N Sand

SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
SS1		0.5	20	0
SS2		1.5	6	0.4
SS3		0.1	15	0.3
SS4		2.0	13	0.2
SS5		1.0	>50	

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (SS2)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(Former Buffalo China Site)

HOLE DESIGNATION: MW-20A
DATE COMPLETED: June 3, 2009
DRILLING METHOD: 6.25 HSA/HQ Core
FIELD PERSONNEL: J. Williams

NORTHING: 1045522.91
EASTING: 1082033.31

	ELEV. ft AMSL
GROUND SURFACE	593.51
TOP OF CASING	593.51
TOP OF RISER	593.06

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL
0	ML-SILT, some angular gravel and roots, brown, dry (TOPSOIL)	593.31
2	ML-SILT, some angular gravel, gray, brown, dry (FILL)	
4	CL-CLAY, little silt, stiff, brown with yellow mottling, moist (NATIVE)	591.11
6		
8	ML-SILT, some fine sand, little gravel, dense, brown, moist to wet (TILL)	587.41
	- Auger Refusal - bedrock encountered @ 8.2 ft BGS	585.31
	END OF OVERBURDEN HOLE @ 8.2ft BGS	

MONITORING WELL: FLUSHMOUNT CASING; CONCRETE; 4"Ø STEEL WELL RISER; CEMENT/ BENTONITE GROUT; 8"Ø BOREHOLE

SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
SS1		1.3	12	0
SS2		1.2	7	0
SS3		1.7	16	0
SS4		1.7	10	0
SS5			>50	0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (SS4)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(Former Buffalo China Site)

HOLE DESIGNATION: MW-20A
DATE COMPLETED: June 3, 2009
DRILLING METHOD: 6.25 HSA/HQ Core
FIELD PERSONNEL: J. Williams

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITORING WELL	RUN NUMBER	CORE RECOVERY %	RQD %	Vol. Water (gal)
	ML-SILT, some fine sand, little gravel, dense, brown, moist to wet (TILL)	587.41	8"Ø BOREHOLE				
8	- Auger Refusal - bedrock encountered @ 8.2 ft BGS	585.31					
	BEDROCK (Not sampled)		6"Ø ROCK SOCKET				
10	LIMESTONE (Onondaga formation, Moorehouse member) fine to medium grained, light to medium gray limestone, light buff to dark gray chert nodules, occasional fossils	583.41					
12				1	100	95	0
14							
16			4"Ø COREHOLE	2	100	90	30
18							
	END OF BOREHOLE @ 19.1ft BGS	574.41					
20							
22							
24							
26							
28							
30							
32							
34							
36							
38							
40							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

BEDROCK LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(Former Buffalo China Site)

HOLE DESIGNATION: MW-21A
DATE COMPLETED: June 4, 2009
DRILLING METHOD: 6.25 HSA/HQ Core
FIELD PERSONNEL: J. Williams

NORTHING: 1045631.4
EASTING: 1082238.77

	ELEV. ft AMSL
TOP OF CASING	591.42
GROUND SURFACE	591.28
TOP OF RISER	590.98

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
0	GM-GRAVEL, some silt, angular, loose, gray, wet (FILL)	590.88	FLUSHMOUNT CASING					
1	FILL-china fragments, white	590.58	CONCRETE					
2	CL-CLAY, little silt, stiff, brown, moist (NATIVE)		4"Ø STEEL WELL RISER	SS1		1.2	7	0
3								
4		587.68	CEMENT/ BENTONITE GROUT	SS2		1.7	16	0
5	ML-SILT, some clay, little gravel, dense, brown, moist (TILL)	587.08		SS3		0.2	>50	0
6	- rock fragments below 4.1 ft BGS	586.88	8"Ø BOREHOLE					
7	NOT SAMPLED							
8	-Auger Refusal - bedrock encountered @ 4.4 ft BGS							
9	END OF OVERBURDEN HOLE @ 4.4ft BGS							
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

WATER BEARING ZONE ▼

CHEMICAL ANALYSIS (SS2)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(Former Buffalo China Site)

HOLE DESIGNATION: MW-21A
DATE COMPLETED: June 4, 2009
DRILLING METHOD: 6.25 HSA/HQ Core
FIELD PERSONNEL: J. Williams

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITORING WELL	RUN NUMBER	CORE RECOVERY %	RQD %	Vol. Water (gal)
4	ML-SILT, some clay, little gravel, dense, brown, moist (TILL)	587.68	CEMENT/ BENTONITE GROUT; 8"Ø BOREHOLE				
	- rock fragments below 4.1 ft BGS	587.08					
6	NOT SAMPLED	586.88	6"Ø ROCK SOCKET				
	-Auger Refusal - bedrock encountered @ 4.4 ft BGS	585.28		1	100	100	0
	BEDROCK (Not sampled)		4"Ø COREHOLE				
8	LIMESTONE (Onondaga formation, Moorehouse member) fine to medium grained, light to medium gray limestone, light buff to dark gray chert nodules, occasional fossils			2	99	86	0
10							
12							
14				3	100	92	0
16							
18							
20	- fracture, moderately weathered, bedding plane parallel below 20.5 ft BGS		▼	4	100	95	50
22	END OF BOREHOLE @ 21.5ft BGS	569.78					
24							
26							
28							
30							
32							
34							
36							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

▼ WATER BEARING ZONE

CHEMICAL ANALYSIS ⬭

BEDROCK LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(82 Harrison Street)

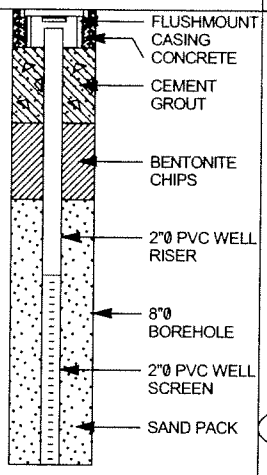
HOLE DESIGNATION: MW-22
DATE COMPLETED: June 8, 2009
DRILLING METHOD: 4.25 HSA
FIELD PERSONNEL: J. Williams

NORTHING: 1045620.7
EASTING: 1081594.66

	ELEV. ft AMSL
TOP OF CASING	592.68
GROUND SURFACE	592.58
TOP OF RISER	592.34

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL
0	ML-SILT, some clay, dense, firm, dark brown to black, moist (TOPSOIL)	591.48
2	CL-CLAY, little silt, dense, stiff, brown with yellow mottling, moist (NATIVE)	
4		
6		
8		
10	ML-SILT, little clay and gravel, trace fine sand, brown to gray, moist to wet, becoming soft (TILL)	583.08
12	- some gravel, trace clay, wet below 11.1 ft BGS	
	END OF BOREHOLE @ 12.0ft BGS	580.58
14	Auger Refusal @ 12 ft BGS	
16		
18		
20		
22		
24		
26		
28		
30		
32		
34		

MONITORING WELL



WELL DETAILS
Screened interval:
585.58 to 580.58ft AMSL
7.00 to 12.00ft BGS
Length: 5ft
Diameter: 2in
Slot Size: 0.010
Material: PVC
Seal:
589.58 to 587.58ft AMSL
3.00 to 5.00ft BGS
Material: Bentonite
Sand Pack:
587.58 to 580.58ft AMSL
5.00 to 12.00ft BGS
Material: Size 00N Sand

SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
SS1		1.0	7	0
SS2		2.0	14	0
SS3		2.0	18	0
SS4		2.0	16	0
SS5		2.0	8	0
SS6		2.0	6	0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS (SS6)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(82 Harrison Street)

HOLE DESIGNATION: MW-22A
DATE COMPLETED: June 8, 2009
DRILLING METHOD: 6.25 HSA/HQ Core
FIELD PERSONNEL: J. Williams

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	NORTHING: 1045620.56 EASTING: 1081598.23 TOP OF CASING / GROUND SURFACE / TOP OF RISER	592.61 / 592.53 / 592.23						
0	ML-SILT, some clay, dense, firm, dark brown to black, moist (TOPSOIL)	591.73	FLUSHMOUNT CASING; CONCRETE; 4"Ø STEEL WELL RISER; CEMENT/ BENTONITE GROUT; 8"Ø BOREHOLE	SS1		1.7	9	0
2	CL-CLAY, little silt, dense, stiff, brown with yellow mottling, moist (NATIVE)							
4				SS2		1.7	11	0
6				SS3		2.0	15	0
8				SS4		2.0	14	0
10	ML-SILT, little clay and gravel, trace fine sand, dense, brown to gray, moist to wet, becoming soft (TILL)	583.33	▽	SS5		2.0	4	0
12	- some gravel, becoming wet below 10 ft BGS	580.93		SS6		1.0	10	0
14	NOT SAMPLED -Auger Refusal - bedrock encountered @ 11.8 ft BGS	580.73						
16	END OF OVERBURDEN HOLE @ 11.8ft BGS							
18								
20								
22								
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ WATER BEARING ZONE ▼
CHEMICAL ANALYSIS (SS6)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(82 Harrison Street)

HOLE DESIGNATION: MW-22A
DATE COMPLETED: June 8, 2009
DRILLING METHOD: 6.25 HSA/HQ Core
FIELD PERSONNEL: J. Williams

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITORING WELL	RUN NUMBER	CORE RECOVERY %	RQD %	Vol. Water (gal)
12	NOT SAMPLED -Auger Refusal - bedrock encountered @ 11.8 ft BGS	580.93 580.73	6"Ø ROCK SOCKET				
14	BEDROCK (Not sampled)	577.93	4"Ø COREHOLE				
16	LIMESTONE (Onondaga formation, Moorehouse member) fine to medium grained, light to medium gray limestone, light buff to dark gray chert nodules, occasional fossils			1	100	86	0
18							
20				2	98	82	0
22							
24							
26				3	102	90	0
28							
30							
32				4	100	90	30
34	- fracture, slightly weathered, bedding plane parallel below 33.5 ft BGS						
	END OF BOREHOLE @ 34.6ft BGS	557.93					
36							
38							
40							
42							
44							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ WATER BEARING ZONE ▼
CHEMICAL ANALYSIS ⬭

BEDROCK LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(82 Harrison Street)

HOLE DESIGNATION: MW-23A
DATE COMPLETED: June 5, 2009
DRILLING METHOD: 6.25 HSA/HQ Core
FIELD PERSONNEL: J. Williams

NORTHING: 1045486.61
EASTING: 1081367.36

	ELEV. ft AMSL
GROUND SURFACE	591.10
TOP OF CASING	591.08
TOP OF RISER	590.65

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL
0	ML-SILT, trace clay, fine sand, and roots, dark brown, dry to moist (TOPSOIL)	
2		588.90
4	CL-CLAY, little silt, dense, stiff, brown with yellow mottling, moist (NATIVE)	
6		
8		
10	- becoming very moist , high plasticity below 10 ft BGS	
12		
14		577.80
	ML-SILT, little clay, fine sand and gravel, dense, gray, wet (TILL)	577.40
	- Auger Refusal - bedrock encountered @ 13.7 ft BGS	
16	END OF OVERBURDEN HOLE @ 13.7ft BGS	
18		
20		
22		
24		
26		
28		
30		
32		
34		

MONITORING WELL: FLUSHMOUNT CASING; CONCRETE; 4"Ø STEEL WELL RISER; CEMENT/ BENTONITE GROUT; 8"Ø BOREHOLE

SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
SS1		1.7	6	0
SS2		1.9	14	0
SS3		2.0	15	0
SS4		2.0	17	0
SS5		2.0	17	0
SS6		2.0	6	0
SS7			6	0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ WATER BEARING ZONE ▼
CHEMICAL ANALYSIS ⬭

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(82 Harrison Street)

HOLE DESIGNATION: MW-23A
DATE COMPLETED: June 5, 2009
DRILLING METHOD: 6.25 HSA/HQ Core
FIELD PERSONNEL: J. Williams

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITORING WELL	RUN NUMBER	CORE RECOVERY %	RQD %	Vol. Water (gal)
14	ML-SILT, little clay, fine sand and gravel, dense, gray, wet (TILL)	577.80					
	- Auger Refusal - bedrock encountered @ 13.7 ft BGS	577.40	6"Ø ROCK SOCKET				
16	BEDROCK (Not sampled)	575.40					
18	LIMESTONE (Onondaga formation, Moorehouse member) fine to medium grained, light to medium gray limestone, light buff to dark gray chert nodules, occasional fossils		4"Ø COREHOLE	1	100	90	0
20							
22				2	100	94	0
24							
26				3	100	95	0
28							
30							
32				4	100	92	20
34	- fracture, slightly weathered, bedding plane parallel below 33.5 ft BGS						
	END OF BOREHOLE @ 34.6ft BGS	556.50					
36							
38							
40							
42							
44							
46							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽ WATER BEARING ZONE ▼
CHEMICAL ANALYSIS ⬭

BEDROCK LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(141 Milton Street)

HOLE DESIGNATION: MW-24A
DATE COMPLETED: June 23, 2009
DRILLING METHOD: 6.25 HSA/HQ Core
FIELD PERSONNEL: J. Williams

NORTHING: 1045954.52
EASTING: 1081971.85

STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL
GROUND SURFACE	598.33
TOP OF CASING	598.33
TOP OF RISER	598.08
CONCRETE	598.03
GP-GRAVEL, little sand and silt, loose, dark gray, moist (FILL)	597.83
CL-CLAY, some silt, medium plasticity, brown, moist (FILL)	596.03
SM-SILTY SAND, some cinders, fine grained, brown with black staining, moist (FILL)	594.93
CL-CLAY, trace silt, stiff, brown, moist (NATIVE)	
ML-SILT, some angular gravel, little sand, hard, brown, dry to moist	590.93
- Auger Refusal - bedrock encountered @ 8.2 ft BGS	590.13
END OF OVERBURDEN HOLE @ 8.2ft BGS	

MONITORING WELL: FLUSHMOUNT CASING; CONCRETE; 4"Ø STEEL WELL RISER; CEMENT/ BENTONITE GROUT; 8"Ø BOREHOLE

SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
SS1		0.5	4	0
SS2		1.5	4	0
SS3		1.7	14	0
SS4		2.0	19	0
SS5		0.5	>50	0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

WATER BEARING ZONE ▼

CHEMICAL ANALYSIS ⬭

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(141 Milton Street)

HOLE DESIGNATION: MW-24A
DATE COMPLETED: June 23, 2009
DRILLING METHOD: 6.25 HSA/HQ Core
FIELD PERSONNEL: J. Williams

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITORING WELL	RUN NUMBER	CORE RECOVERY %	RQD %	Vol. Water (gal)
8	ML-SILT, some angular gravel, little sand, hard, brown, dry to moist - Auger Refusal - bedrock encountered @ 8.2 ft BGS	590.93 590.13	8"Ø BOREHOLE				
10	BEDROCK (Not sampled)	588.13	6"Ø ROCK SOCKET				
12	LIMESTONE (Onondaga formation, Moorehouse member) fine to medium grained, light to medium gray limestone, light buff to dark gray chert nodules, occasional fossils - fracture, highly weathered, bedding plane parallel below 11.7 ft BGS		4"Ø COREHOLE	1	93	83	50
16	END OF BOREHOLE @ 15.7ft BGS	582.63					
18							
20							
22							
24							
26							
28							
30							
32							
34							
36							
38							
40							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

WATER BEARING ZONE ▼

CHEMICAL ANALYSIS ⬭

BEDROCK LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

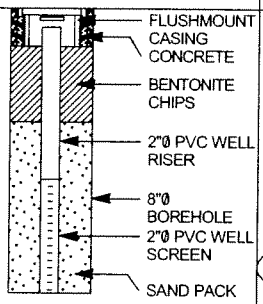
PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(141 Milton Street)

HOLE DESIGNATION: MW-25
DATE COMPLETED: June 22, 2009
DRILLING METHOD: 4.25 HSA
FIELD PERSONNEL: J. Williams

NORTHING: 1046011.9
EASTING: 1081845.31

	ELEV. ft AMSL
TOP OF CASING	598.42
GROUND SURFACE	598.42
TOP OF RISER	598.13

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL
0	CONCRETE	598.12
	GM-SILT and GRAVEL, little sand, angular gravel, loose, black, moist (FILL)	597.92 / 597.72
2	SP-SAND, loose, medium to coarse grained, tan, moist (FILL)	596.12
4	ML/CL-CLAY and SILT, dense, stiff, brown, moist (FILL)	594.32
	CL-CLAY, trace silt, stiff, brown with yellow mottling, moist (NATIVE)	
6	ML-SILT, some clay, little subrounded gravel, very dense, brown, moist to wet	
8	END OF BOREHOLE @ 7.5ft BGS	590.82
	Auger Refusal @ 7.5 ft BGS	
10		
12		
14		
16		
18		
20		
22		
24		
26		
28		
30		
32		
34		



WELL DETAILS
Screened interval:
593.92 to 590.92ft AMSL
4.50 to 7.50ft BGS
Length: 3ft
Diameter: 2in
Slot Size: 0.010
Material: PVC
Seal:
597.42 to 595.42ft AMSL
1.00 to 3.00ft BGS
Material: Bentonite
Sand Pack:
595.42 to 590.92ft AMSL
3.00 to 7.50ft BGS
Material: Size 00N Sand

SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
SS1		1.0	4	0.1
SS2		1.5	5	0.1
SS3		2.0	8	0.1
SS4		0.5	42	3.6

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (SS4)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(141 Milton Street)

HOLE DESIGNATION: MW-25A
DATE COMPLETED: June 23, 2009
DRILLING METHOD: 6.25 HSA/HQ Core
FIELD PERSONNEL: J. Williams

NORTHING: 1046007.18
EASTING: 1081847.89

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL
	GROUND SURFACE	598.47
	TOP OF CASING	598.46
	TOP OF RISER	598.13
0	CONCRETE	598.17
	GM-GRAVEL and SILT, little sand, angular, loose, black, dry to moist	597.67
2	SP-SAND, trace silt, loose, fine grained, brown, dry to moist	596.37
	ML/CL-SILT and CLAY, brown, moist	
4	CL-CLAY, trace silt and gravel, dense, medium plasticity, brown, moist to wet	594.27
6		
8	NOT SAMPLED -Auger Refusal - bedrock encountered @ 7.5 ft BGS	591.07 590.97
	END OF OVERBURDEN HOLE @ 7.5ft BGS	
10		
12		
14		
16		
18		
20		
22		
24		
26		
28		
30		
32		
34		

MONITORING WELL: FLUSHMOUNT CASING; CONCRETE; 4"Ø STEEL WELL RISER; CEMENT/ BENTONITE GROUT; 8"Ø BOREHOLE

SAMPLE NUMBER	INTERVAL	REC (ft)	'N' VALUE	PID (ppm)
SS1		1.2	6	0
SS2		1.5	9	0
SS3		2.0	15	0
SS4		1.5	>50	0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

WATER BEARING ZONE ▼

CHEMICAL ANALYSIS (◯)

OVERBURDEN LOG 37191.GPJ CRA_CORP.GDT 2/23/10

STRATIGRAPHIC AND INSTRUMENTATION LOG (BEDROCK)

PROJECT NAME: Former Buffalo China Site
PROJECT NUMBER: 37191
CLIENT: Hodgson Russ
LOCATION: Buffalo, NY
(141 Milton Street)

HOLE DESIGNATION: MW-25A
DATE COMPLETED: June 23, 2009
DRILLING METHOD: 6.25 HSA/HQ Core
FIELD PERSONNEL: J. Williams

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	MONITORING WELL	RUN NUMBER	CORE RECOVERY %	RQD %	Vol. Water (gal)
8	NOT SAMPLED -Auger Refusal - bedrock encountered @ 7.5 ft BGS	591.07 590.97	8"Ø BOREHOLE 6"Ø ROCK SOCKET				
10	BEDROCK (Not sampled)	588.97		1	71	58	0
12	LIMESTONE (Onondaga formation, Moorehouse member) fine to medium grained, light to medium gray limestone, light buff to dark gray chert nodules, occasional fossils - fracture, moderately weathered, vertical between 10.7 and 11.8 ft BGS		4"Ø COREHOLE	2	100	91	100
14	- fracture, moderately weathered, bedding plane parallel below 12.4 ft BGS	583.97					
16	END OF BOREHOLE @ 14.5ft BGS						
18							
20							
22							
24							
26							
28							
30							
32							
34							
36							
38							
40							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

WATER BEARING ZONE ▼

CHEMICAL ANALYSIS ⬭

BEDROCK LOG 37191.GPJ CRA_CORP.GDT 2/23/10

APPENDIX C

WELL DEVELOPMENT RECORDS

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME: Buffalo China PROJECT NO.: 37191

DATE OF WELL DEVELOPMENT: 12/23/08

DEVELOPMENT CREW MEMBERS: J. Williams

PURGING METHOD: electric submersible pump

SAMPLE NO.: —

SAMPLE TIME: —

WELL INFORMATION

WELL NUMBER: MW-5A

WELL TYPE (diameter/material) 4"ϕ Bedrock Open Hole

MEASURING POINT ELEVATION:

STATIC WATER DEPTH: 6.10 ft. BTOC ELEVATION:

BOTTOM DEPTH: 16.1 ft. BTOC ELEVATION:

WATER COLUMN LENGTH: 10 ft.

SCREENED INTERVAL:

WELL VOLUME: 6.4 gallons

Note: For 1-inch diameter well: 1 foot = 0.04 US gallons
1 meter = 0.5 liters
For 2-inch diameter well: 1 foot = 0.16 US gallons
1 meter = 2 liters
For 4-inch diameter well: 1 foot = 0.70 US gallons
1 meter = 8.2 liters

	UNITS	1	2	3	4	5	TOTAL/ AVERAGE
VOLUME PURGED (volume/total volume):		6.4	12.8	19.2	25.6	32.0	
FIELD pH:	SU	9.33	9.46	8.98	8.96	8.94	
FIELD TEMPERATURE:	°C	4.0	6.9	8.0	7.9	7.9	
FIELD CONDUCTIVITY:	µS/cm	9.53	2.58	4.09	3.82	3.96	
CLARITY/TURBIDITY VALUES:	NTU	986	>999	>999	>999	>999	
COLOR:		grey	grey	cleaning	→	→	
ODOR:		strong chemical	→	→	→	→	
COMMENTS:		NAPL present	→	→	→	→	

COPIES TO: _____

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME: Former Buffalo China Site PROJECT NO.: 37191

DATE OF WELL DEVELOPMENT: 6/15/09

DEVELOPMENT CREW MEMBERS: J. Williams

PURGING METHOD: electric submersible pump

SAMPLE NO.: —

SAMPLE TIME: —

WELL INFORMATION

WELL NUMBER: MW-6A

WELL TYPE (diameter/material) 4-inch bedrock

MEASURING POINT ELEVATION: ELEVATION:

STATIC WATER DEPTH: 5.26 ELEVATION:

BOTTOM DEPTH: 21.1 ELEVATION:

WATER COLUMN LENGTH: 15.8

SCREENED INTERVAL:

WELL VOLUME: 10.1 gallons

Note: For 1-inch diameter well: 1 foot = 0.04 US gallons
1 meter = 0.5 liters
For 2-inch diameter well: 1 foot = 0.16 US gallons
1 meter = 2 liters
For 4-inch diameter well: 1 foot = 0.70 US gallons
1 meter = 8.2 liters

	UNITS	1	2	3	4	5	TOTAL/ AVERAGE
VOLUME PURGED (volume/total volume):	gallons	10	20	30	40	50	
FIELD pH:	SU	5.13	6.93	7.03	6.98	6.95	
FIELD TEMPERATURE:	°C	13.2	12.7	12.8	13.0	12.7	
FIELD CONDUCTIVITY:	mS/cm	1.21	1.30	1.53	1.62	1.68	
CLARITY/TURBIDITY VALUES:	NTU	-5.0	-5.0	269	117	84.1	
COLOR:	—	gray	gray	gray	clear	clear	
ODOR:	—	none	none	none	none	none	
COMMENTS:	—	cloudy	cloudy	clearing			

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME: Buffalo China PROJECT NO.: 37191

DATE OF WELL DEVELOPMENT: 12/18/08

DEVELOPMENT CREW MEMBERS: J. Williams

PURGING METHOD: electric Submersible pump

SAMPLE NO.: —

SAMPLE TIME: —

WELL INFORMATION

WELL NUMBER: MW-7A

WELL TYPE (diameter/material) 4"ϕ Bedrock open Hole

MEASURING POINT ELEVATION:

STATIC WATER DEPTH: 2.55 ft. BTOC ELEVATION:

BOTTOM DEPTH: 14.6 ft. BTOC ELEVATION:

WATER COLUMN LENGTH: 12.1 ft.

SCREENED INTERVAL:

WELL VOLUME: 7.7 gallons

Note: For 1-inch diameter well: 1 foot = 0.04 US gallons
1 meter = 0.5 liters

For 2-inch diameter well: 1 foot = 0.16 US gallons
1 meter = 2 liters

For 4-inch diameter well: 1 foot = 0.70 US gallons
1 meter = 8.2 liters

	UNITS	1	2	3	4	5	TOTAL/ AVERAGE
VOLUME PURGED (volume/total volume):		8	16	24	36		
FIELD pH:	SU	8.27	8.03	7.75	7.37		
FIELD TEMPERATURE:	°C	11.3	11.8	12.0	12.4		
FIELD CONDUCTIVITY:	mS/cm	0.002	1.39	1.48	1.89		
CLARITY/TURBIDITY VALUES:	NTU	149	176	155	48		
COLOR:		cloudy, gray	——→		clear		
ODOR:		None	None	None	None		
COMMENTS:							

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME: Buffalo China — PROJECT NO.: 37191

DATE OF WELL DEVELOPMENT: 12/18/08

DEVELOPMENT CREW MEMBERS: J. Williams

PURGING METHOD: elec. submersible pump

SAMPLE NO.: —

SAMPLE TIME: —

WELL INFORMATION

WELL NUMBER: MW-9A

WELL TYPE (diameter/material): 4"ϕ Bedrock open Hole

MEASURING POINT ELEVATION: ELEVATION:

STATIC WATER DEPTH: 10.62 ft. BTOC — ELEVATION:

BOTTOM DEPTH: 26.0 ft. BTOC — ELEVATION:

WATER COLUMN LENGTH: 15.4 ft.

SCREENED INTERVAL:

WELL VOLUME: 9.8 gallons

Note: For 1-inch diameter well: 1 foot = 0.04 US gallons
1 meter = 0.5 liters
For 2-inch diameter well: 1 foot = 0.16 US gallons
1 meter = 2 liters
For 4-inch diameter well: 1 foot = 0.70 US gallons
1 meter = 8.2 liters

UNITS	1	2	3	4	5	6
VOLUME PURGED (volume/total volume):	10	20	30	40	50	60
FIELD pH: SU	5.97	6.64	7.18	7.69	7.68	7.66
FIELD TEMPERATURE: °C	9.0	10.7	10.8	10.4	11.0	9.7
FIELD CONDUCTIVITY: mS/cm	13.4	0.002	1.51	1.48	1.53	1.55
CLARITY/TURBIDITY VALUES: NTU	>999	847	893	408	177	88
COLOR:	gray	gray	gray	cleaning	clear	clear
ODOR:	None	None	None	None	None	None
COMMENTS:						

COPIES TO:

(8)

MW-10 MILTON

DATE 8-27-08 Crew SG/DJT
PROJECT 37191
DEPTH 8.88
INITAL W/L 7.56
VOL CALC 8.88 - 7.56 = 1.32 x .16 = 0.21

METHOD SS BAILER

PURGE RECORD

TIME	VOL	PH	COND	TEMP	TURB
1246	0.21	7.06	0.974	20.3	89.4
1247	0.42	7.14	0.897	17.4	556.3
1249	0.63	7.16	0.927	16.5	1081.3
1250	0.84	7.18	0.939	16.4	1213.2

WELL DRY AFTER 4 VOLUMES

INITAL W/Q CLOUDY BROWN
FINAL W/Q CLOUDY DARK BROWN

Inst. Control #'S
W/L Meter NF04417
YSI NF04441

Shaun Gardner

(9)

MW-11 HARRISON

DATE 8-27-08 Crew SG/DJT
PROJECT 37191
DEPTH 8.51
INITIAL W/L 5.31
VOL CALC 8.51 - 5.31 = 3.20 x .16 = 0.51

METHOD SS BAILER

PURGE RECORD

TIME	VOL	PH	COND	TEMP	TURB
1304	0.51	7.22	2.23	18.8	222.7
1305	1.02	7.22	2.00	17.9	95.5
1306	1.53	7.26	2.08	17.5	150.3
1307	2.04	7.24	2.27	17.1	491.3
1308	2.55	7.29	2.33	17.0	1255.3

WELL DRY AFTER 5 VOLUMES

INITIAL W/Q CLEAR, COLORLESS
FINAL W/Q CLOUDY BROWN

Inst. Control #'S
W/L Meter NF04417
YSI NF04441

Shaun Gardner

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME: Buffalo China — PROJECT NO.: 37191

DATE OF WELL DEVELOPMENT: 12/18/08

DEVELOPMENT CREW MEMBERS: J. Williams

PURGING METHOD: electric submersible pump

SAMPLE NO.: —

SAMPLE TIME: —

WELL INFORMATION

WELL NUMBER: MW-13A

WELL TYPE (diameter/material): 4" ϕ Bedrock open Hole

MEASURING POINT ELEVATION:

STATIC WATER DEPTH: 6.12 ft. BTOC — ELEVATION:

BOTTOM DEPTH: 14.4 ft. BTOC — ELEVATION:

WATER COLUMN LENGTH: 8.3 ft.

SCREENED INTERVAL:

WELL VOLUME: 5.3 gallons

Note: For 1-inch diameter well: 1 foot = 0.04 US gallons; 1 meter = 0.5 liters
For 2-inch diameter well: 1 foot = 0.16 US gallons; 1 meter = 2 liters
For 4-inch diameter well: 1 foot = 0.70 US gallons; 1 meter = 8.2 liters

	UNITS	1	2	3	4	5	TOTAL/ AVERAGE
VOLUME PURGED (volume/total volume):		5.3	10.6	15.9	21.2	26.5	
FIELD pH:	SU	8.77	8.39	8.12	7.92	7.78	
FIELD TEMPERATURE:	°C	8.5	10.1	9.9	9.9	9.7	
FIELD CONDUCTIVITY:	mS/cm	0.002	0.002	9.0	0.003	1.74	
CLARITY/TURBIDITY VALUES:	NTU	871	>999	>999	623	435	
COLOR:		cloudy, gray	—	—	—	→	
ODOR:		None	None	None	None	None	
COMMENTS:							

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME: _____ PROJECT NO.: _____

DATE OF WELL DEVELOPMENT: _____

DEVELOPMENT CREW MEMBERS: _____

PURGING METHOD: _____

SAMPLE NO.: _____

SAMPLE TIME: _____

WELL INFORMATION

WELL NUMBER: MW-13A

WELL TYPE (diameter/material) _____

MEASURING POINT ELEVATION: _____

STATIC WATER DEPTH: _____ ELEVATION: _____

BOTTOM DEPTH: _____ ELEVATION: _____

WATER COLUMN LENGTH: _____

SCREENED INTERVAL: _____

WELL VOLUME:

Note: For 1-inch diameter well: 1 foot = 0.04 US gallons
1 meter = 0.5 liters
For 2-inch diameter well: 1 foot = 0.16 US gallons
1 meter = 2 liters
For 4-inch diameter well: 1 foot = 0.70 US gallons
1 meter = 8.2 liters

	UNITS	6	7	8			*TOTAL/ AVERAGE*
VOLUME PURGED (volume/total volume):		31.8	37.1	42.4			
FIELD pH:	SU	7.08	6.95	6.87			
FIELD TEMPERATURE:	°C	10.1	10.3	10.3			
FIELD CONDUCTIVITY:	uS/cm	1.74	1.74	1.74			
CLARITY/TURBIDITY VALUES:	NTU	253	160	33.8			
COLOR:		cloudy	cloudy	clear			
ODOR:		None	None	None			
COMMENTS:							

COPIES TO: _____

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME: Buffalo China PROJECT NO.: 37191

DATE OF WELL DEVELOPMENT: 12/23/08

DEVELOPMENT CREW MEMBERS: J. Williams

PURGING METHOD: electric submersible Pump

SAMPLE NO.: —

SAMPLE TIME: —

WELL INFORMATION

WELL NUMBER: MW-14A

WELL TYPE (diameter/material) 4" ϕ Bedrock Open Hole

MEASURING POINT ELEVATION:

STATIC WATER DEPTH: 11.25 ft. BTOC ELEVATION:

BOTTOM DEPTH: 13.6 ft. BTOC ELEVATION:

WATER COLUMN LENGTH: 2.4 ft.

SCREENED INTERVAL:

WELL VOLUME: 1.5 gallons

Note: For 1-inch diameter well: 1 foot = 0.04 US gallons
1 meter = 0.5 liters
For 2-inch diameter well: 1 foot = 0.16 US gallons
1 meter = 2 liters
For 4-inch diameter well: 1 foot = 0.70 US gallons
1 meter = 8.2 liters

	UNITS	1	2	3	4	5	6
VOLUME PURGED (volume/total volume):		1.5	3.0	4.5	6.0	7.5	9.0
FIELD pH:	SU	7.68	7.71	7.86	7.88	8.03	8.05
FIELD TEMPERATURE:	°C	7.2	7.7	—	7.8	7.8	7.7
FIELD CONDUCTIVITY:	ms/cm	0.89	0.92	0.96	1.02	1.07	1.06
CLARITY/TURBIDITY VALUES:	NTU	755	283	162	96	84	47
COLOR:		cloudy, gray	→	→	clear	→	→
ODOR:							
COMMENTS:							

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME: Buffalo China — PROJECT NO.: 37191

DATE OF WELL DEVELOPMENT: 12/23/08

DEVELOPMENT CREW MEMBERS: J. Williams

PURGING METHOD: electric submersible pump

SAMPLE NO.: —

SAMPLE TIME: —

WELL INFORMATION

WELL NUMBER: MW-15A

WELL TYPE (diameter/material): 4"ϕ Bedrock Open Hole

MEASURING POINT ELEVATION: — ELEVATION: —

STATIC WATER DEPTH: 10.35 ft. BTOC

BOTTOM DEPTH: 14.2 ft. BTOC — ELEVATION: —

WATER COLUMN LENGTH: 3.9 ft.

SCREENED INTERVAL: —

WELL VOLUME: 2.5 gallons

Note: For 1-inch diameter well: 1 foot = 0.04 US gallons; 1 meter = 0.5 liters
For 2-inch diameter well: 1 foot = 0.16 US gallons; 1 meter = 2 liters
For 4-inch diameter well: 1 foot = 0.70 US gallons; 1 meter = 8.2 liters

	UNITS	1	2	3	4	5	TOTAL/ AVERAGE
VOLUME PURGED (volume/total volume):		2.5	5.0	7.5	10.0	12.5	
FIELD pH:	SU	—	7.37	7.42	7.53	7.57	
FIELD TEMPERATURE:	°C	—	5.1	6.7	6.8	6.8	
FIELD CONDUCTIVITY:	mS/cm	—	2.10	3.10	3.10	3.06	
CLARITY/TURBIDITY VALUES:	NTU	—	162	98	62	36	
COLOR:		cloudy, gray	cleanly	clear	→	→	
ODOR:		None	None	None	None	None	
COMMENTS:							

COPIES TO: —

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Buffalo China
Ref. No.: 37191
Date: 5/13/08
Personnel: S. McEvoy

Monitoring Well Data:

Well No.: MW-17
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft): 11.35
Depth of Sediment (ft):
Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in): 2"
Well Screen Volume, V_s (mL)[2]: 0.8 gal
Initial Depth to Water (ft): 6.43

Start purge at 1030

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, Vp (mL)	No. of Well Screen Volumes Purged[4]
1032	200	6.88	0.45	5.11	13.0	1.89	280	10.11	185		
1037	200	7.08	0.65	5.13	11.0	1.82	231	6.72	77.1		
1042	200	7.28	0.85	5.62	10.9	1.81	195	5.62	102		
1047	375	7.68	1.25	5.72	10.3	1.80	180	6.14	22.0		
1052	375	8.06	1.63	5.65	10.2	1.78	184	4.54	29.7	1.0 gal	
1057	450	8.57	2.14	5.66	10.0	1.77	183	6.20	28.1		
1102	450	9.03	2.60	5.61	10.0	1.76	190	4.57	32	2.0 gal	
1107	450	9.50	3.07	5.63	10.1	1.76	191	4.03	28.3		
1112	450	9.88	3.45	5.67	10.1	1.76	193	3.80	25.7	3.0 gal	
1118	450	10.38	3.95	5.77	10.1	1.74	193	3.55	29.0		
		Stopped purging at 1119.				~3.8 gal	purged.				

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME: Former Buffalo China Site PROJECT NO.: 37191

DATE OF WELL DEVELOPMENT: 6/17/09

DEVELOPMENT CREW MEMBERS: J. Williams

PURGING METHOD: electric submersible pump

SAMPLE NO.: —

SAMPLE TIME: —

WELL INFORMATION

WELL NUMBER: MW-18A

WELL TYPE (diameter/material): 4-inch bedrock

MEASURING POINT ELEVATION:

STATIC WATER DEPTH: 8.08 ELEVATION:

BOTTOM DEPTH: 15.4 ELEVATION:

WATER COLUMN LENGTH: 7.3

SCREENED INTERVAL:

WELL VOLUME: 4.7 gallons

Note: For 1-inch diameter well: 1 foot = 0.04 US gallons
1 meter = 0.5 liters

For 2-inch diameter well: 1 foot = 0.16 US gallons
1 meter = 2 liters

For 4-inch diameter well: 1 foot = 0.70 US gallons
1 meter = 8.2 liters

	UNITS	1	2	3	4	5	TOTAL/ AVERAGE
VOLUME PURGED (volume/total volume):	gallons	5	10	15	20	25	
FIELD pH:	S.U.	5.82	6.06	6.41	6.62	6.70	
FIELD TEMPERATURE:	°C	13.4	12.8	12.9	13.4	13.5	
FIELD CONDUCTIVITY:	mS/cm	1.69	1.84	2.03	2.01	2.09	
CLARITY/TURBIDITY VALUES:	NTU	179	327	322	-5.0	186	
COLOR:	—	gray	gray	gray	gray	clear	
ODOR:	—	none	none	none	none	none	
COMMENTS:	—	cloudy	cloudy	cloudy	cloudy	clear	

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME: former Buffalo china site PROJECT NO.: 37191

DATE OF WELL DEVELOPMENT: 6/17/09

DEVELOPMENT CREW MEMBERS: J. Williams

PURGING METHOD: Bailer

SAMPLE NO.: —

SAMPLE TIME: —

WELL INFORMATION

WELL NUMBER: MW-19

WELL TYPE (diameter/material): 2"ø PVC O/B

MEASURING POINT ELEVATION:

STATIC WATER DEPTH: 3.24 ELEVATION:

BOTTOM DEPTH: 7.7 ELEVATION:

WATER COLUMN LENGTH: 4.5

SCREENED INTERVAL:

WELL VOLUME: 0.7 gallons

Note: For 1-inch diameter well: 1 foot = 0.04 US gallons
1 meter = 0.5 liters

For 2-inch diameter well: 1 foot = 0.16 US gallons
1 meter = 2 liters

For 4-inch diameter well: 1 foot = 0.70 US gallons
1 meter = 8.2 liters

UNITS	1	2	3	4	5	TOTAL/ AVERAGE
VOLUME PURGED (volume/total volume): gallons	0.7	1.4	2.1	2.8	3.5	
FIELD pH: S.U.	6.86	6.69	6.88	6.71	6.68	
FIELD TEMPERATURE: °C	17.1	16.0	16.3	15.7	15.6	
FIELD CONDUCTIVITY: mS/cm	1.68	1.66	1.67	1.69	1.70	
CLARITY/TURBIDITY VALUES: NTU	-5	-5	-5	-5	-5	
COLOR: —	Tan	Tan	Tan	Tan	Tan	
ODOR: —	none	none	none	none	none	
COMMENTS: —	cloudy	cloudy	cloudy	cloudy	cloudy	

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME: Former Buffalo China Site PROJECT NO.: 37191

DATE OF WELL DEVELOPMENT: 6/15/09

DEVELOPMENT CREW MEMBERS: J. Williams

PURGING METHOD: electric submersible pump

SAMPLE NO.: —

SAMPLE TIME: —

WELL INFORMATION

WELL NUMBER: MW-19A

WELL TYPE (diameter/material) 4-inch bedrock

MEASURING POINT ELEVATION:

STATIC WATER DEPTH: 10.04 ELEVATION:

BOTTOM DEPTH: 24.4 ELEVATION:

WATER COLUMN LENGTH: 14.4

SCREENED INTERVAL:

WELL VOLUME: 9.2 gallons

Note: For 1-inch diameter well: 1 foot = 0.04 US gallons
1 meter = 0.5 liters
For 2-inch diameter well: 1 foot = 0.16 US gallons
1 meter = 2 liters
For 4-inch diameter well: 1 foot = 0.70 US gallons
1 meter = 8.2 liters

	UNITS	1	2	3	4	5	TOTAL/ AVERAGE
VOLUME PURGED (volume/total volume):	gallons	9	18	27	36		
FIELD pH:	S.U.	7.21	6.75	6.73	6.74		
FIELD TEMPERATURE:	°C	14.9	13.8	13.6	13.7		
FIELD CONDUCTIVITY:	MS/cm	1.75	1.76	1.73	1.71		
CLARITY/TURBIDITY VALUES:	NTU	54.2	37.7	17.0	14.4		
COLOR:	—	clear	clear	clear	clear		
ODOR:	—	none	none	none	none		
COMMENTS:	—						

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME: Former Buffalo China Site PROJECT NO.: 37191

DATE OF WELL DEVELOPMENT: 6/12/09

DEVELOPMENT CREW MEMBERS: J. Williams

PURGING METHOD: electric submersible pump

SAMPLE NO.: —

SAMPLE TIME: —

WELL INFORMATION

WELL NUMBER: MW-20

WELL TYPE (diameter/material): 2"ø PVC O/B

MEASURING POINT ELEVATION:

STATIC WATER DEPTH: 4.3 ELEVATION:

BOTTOM DEPTH: 8.2 ELEVATION:

WATER COLUMN LENGTH: 3.9

SCREENED INTERVAL: 3.2 - 8.2

WELL VOLUME: 0.62 gallons

Note: For 1-inch diameter well: 1 foot = 0.04 US gallons
1 meter = 0.5 liters
For 2-inch diameter well: 1 foot = 0.16 US gallons
1 meter = 2 liters
For 4-inch diameter well: 1 foot = 0.70 US gallons
1 meter = 8.2 liters

	UNITS	*1*	*2*	*3*	*4*	*5*	*TOTAL/ AVERAGE*
VOLUME PURGED (volume/total volume):	gallons	0.6	1.2	1.8	2.4	3.0	
FIELD pH:	SU	6.78	6.76	6.81	6.77	6.70	
FIELD TEMPERATURE:	°C	14.9	14.6	14.4	14.0	14.5	
FIELD CONDUCTIVITY:	MS/cm	2.68	2.83	2.85	2.79	2.81	
CLARITY/TURBIDITY VALUES:	NTU	187	225	91.3	24.3	14.6	
COLOR:		clear	brown	clear	clear	clear	
ODOR:		None	None	None	None	None	
COMMENTS:			cloudy				

COPIES TO: _____

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME: Former Buffalo China Site PROJECT NO.: 37191

DATE OF WELL DEVELOPMENT: 6/12/09

DEVELOPMENT CREW MEMBERS: J. Williams

PURGING METHOD: electric submersible pump

SAMPLE NO.: —

SAMPLE TIME: —

WELL INFORMATION

WELL NUMBER: MW-20A

WELL TYPE (diameter/material) 4-inch ϕ bedrock

MEASURING POINT ELEVATION:

STATIC WATER DEPTH: 4.19' BTOC ELEVATION:

BOTTOM DEPTH: 18.9' BTOC ELEVATION:

WATER COLUMN LENGTH: 14.7'

SCREENED INTERVAL:

WELL VOLUME: 9.4 gallons

Note: For 1-inch diameter well: 1 foot = 0.04 US gallons
1 meter = 0.5 liters
For 2-inch diameter well: 1 foot = 0.16 US gallons
1 meter = 2 liters
For 4-inch diameter well: 1 foot = 0.70 US gallons
1 meter = 8.2 liters

	UNITS	1	2	3	4	5	TOTAL/ AVERAGE
VOLUME PURGED (volume/total volume):	gallons	10	20	30	40		
FIELD pH:	SU	6.75	6.84	6.81	6.89		
FIELD TEMPERATURE:	°C	13.1	12.8	12.2	15.0		
FIELD CONDUCTIVITY:	mS/cm	1.43	1.53	1.64	1.72		
CLARITY/TURBIDITY VALUES:	NTU	-5.0	422	271	132		
COLOR:	gray	gray	clear	clear			
ODOR:	none	none	None	None			
COMMENTS:	cloudy	slightly cloudy					

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME: Former Buffalo China Site PROJECT NO.: 37191

DATE OF WELL DEVELOPMENT: 6/15/09

DEVELOPMENT CREW MEMBERS: J. Williams

PURGING METHOD: electric submersible pump

SAMPLE NO.: —

SAMPLE TIME: —

WELL INFORMATION

WELL NUMBER: MW-21A

WELL TYPE (diameter/material) 4-inch bedrock

MEASURING POINT ELEVATION:

STATIC WATER DEPTH: 7.2 ELEVATION:

BOTTOM DEPTH: 21.4 ELEVATION:

WATER COLUMN LENGTH: 14.2

SCREENED INTERVAL:

WELL VOLUME: 9.1 gallons

Note: For 1-inch diameter well: 1 foot = 0.04 US gallons
1 meter = 0.5 liters
For 2-inch diameter well: 1 foot = 0.16 US gallons
1 meter = 2 liters
For 4-inch diameter well: 1 foot = 0.70 US gallons
1 meter = 8.2 liters

	UNITS	1	2	3	4	5	TOTAL/ AVERAGE
VOLUME PURGED (volume/total volume):	gallons	9	18	27	36		
FIELD pH:	SU	7.11	6.79	6.75	6.75		
FIELD TEMPERATURE:	°C	15.1	14.8	13.4	13.3		
FIELD CONDUCTIVITY:	ms/cm	1.86	1.81	1.83	1.82		
CLARITY/TURBIDITY VALUES:	NTU	553	136	54.7	49.0		
COLOR:	—	gray	gray	clear	clear		
ODOR:	—	none	none	none	none		
COMMENTS:	—	cloudy	clearing				

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME: Former Buffalo China Site PROJECT NO.: 37191

DATE OF WELL DEVELOPMENT: 6/17/09

DEVELOPMENT CREW MEMBERS: J. Williams

PURGING METHOD: electric submersible pump

SAMPLE NO.: —

SAMPLE TIME: —

WELL INFORMATION

WELL NUMBER: MW-22

WELL TYPE (diameter/material) 2"ϕ PVC O/B

MEASURING POINT ELEVATION:

STATIC WATER DEPTH: 4.12 ELEVATION:

BOTTOM DEPTH: 11.3 ELEVATION:

WATER COLUMN LENGTH: 7.2

SCREENED INTERVAL:

WELL VOLUME: 1.2 gallons

Note: For 1-inch diameter well: 1 foot = 0.04 US gallons
1 meter = 0.5 liters
For 2-inch diameter well: 1 foot = 0.16 US gallons
1 meter = 2 liters
For 4-inch diameter well: 1 foot = 0.70 US gallons
1 meter = 8.2 liters

	UNITS	1	2	3	4	5	TOTAL/ AVERAGE
VOLUME PURGED (volume/total volume):	gallons	1.2	2.4	3.6	4.8	6.0	
FIELD pH:	S.U.	6.91	6.69	6.58	6.74	NA	
FIELD TEMPERATURE:	°C	14.7	14.1	13.2	14.6	NA	
FIELD CONDUCTIVITY:	MS/cm	1.62	1.69	1.81	1.77	NA	
CLARITY/TURBIDITY VALUES:	NTU	123	270	117	201	NA	
COLOR:	—	clear	tan	clear	clear	NA	
ODOR:	—	none	none	none	none	NA	
COMMENTS:	—		cloudy			dry	

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME: Former Buffalo China Site PROJECT NO.: 37191

DATE OF WELL DEVELOPMENT: 6/29/09

DEVELOPMENT CREW MEMBERS: J. Williams

PURGING METHOD: electric Submersible Pump

SAMPLE NO.: —

SAMPLE TIME: —

WELL INFORMATION

WELL NUMBER: MW-22A

WELL TYPE (diameter/material) 4"ø bedrock

MEASURING POINT ELEVATION: ELEVATION:

STATIC WATER DEPTH: 7.95 ELEVATION:

BOTTOM DEPTH: 34.2 ELEVATION:

WATER COLUMN LENGTH: 26.3

SCREENED INTERVAL:

WELL VOLUME: 16.8 gallons

Note: For 1-inch diameter well: 1 foot = 0.04 US gallons
1 meter = 0.5 liters
For 2-inch diameter well: 1 foot = 0.16 US gallons
1 meter = 2 liters
For 4-inch diameter well: 1 foot = 0.70 US gallons
1 meter = 8.2 liters

	UNITS	1	2	3	4	5	TOTAL/ AVERAGE
VOLUME PURGED (volume/total volume):	gallons	17	34	51	68	85	
FIELD pH:	S.U.	6.24	6.76	6.69	6.67	6.65	
FIELD TEMPERATURE:	°C	15.0	15.4	14.0	14.2	14.2	
FIELD CONDUCTIVITY:	mS/cm	1.63	1.54	1.54	1.53	1.53	
CLARITY/TURBIDITY VALUES:	NTU	-5	291	226	119	48.2	
COLOR:		gray	gray	gray	clear	clear	
ODOR:		none	none	none	none	none	
COMMENTS:		muddy	cloudy	cloudy			

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME: Former Buffalo China Site PROJECT NO.: 37191

DATE OF WELL DEVELOPMENT: 6/29/09

DEVELOPMENT CREW MEMBERS: J. Williams

PURGING METHOD: electric submersible pump

SAMPLE NO.: —

SAMPLE TIME: —

WELL INFORMATION

WELL NUMBER: MW-23A

WELL TYPE (diameter/material) 4-inch ϕ bedrock

MEASURING POINT ELEVATION:

STATIC WATER DEPTH: 14.26 ELEVATION:

BOTTOM DEPTH: 34.3 ELEVATION:

WATER COLUMN LENGTH: 20.0

SCREENED INTERVAL:

WELL VOLUME: 12.8 gallons

Note: For 1-inch diameter well: 1 foot = 0.04 US gallons
1 meter = 0.5 liters
For 2-inch diameter well: 1 foot = 0.16 US gallons
1 meter = 2 liters
For 4-inch diameter well: 1 foot = 0.70 US gallons
1 meter = 8.2 liters

	UNITS	1	2	3	4	5	*TOTAL/ AVERAGE*
VOLUME PURGED (volume/total volume):	gallons	13	26	39	52	65	
FIELD pH:	S.U.	6.98	6.78	6.69	6.65	6.64	
FIELD TEMPERATURE:	°C	15.4	15.3	14.3	14.2	14.1	
FIELD CONDUCTIVITY:	MS/cm	1.51	1.74	1.76	1.75	1.74	
CLARITY/TURBIDITY VALUES:	NTU	-5	-5	332	128	42.1	
COLOR:		gray	gray	gray	clear	clear	
ODOR:		none	none	none			
COMMENTS:		muddy	muddy	cloudy			

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME: Former Buffalo China Site PROJECT NO.: 37191

DATE OF WELL DEVELOPMENT: 6/24/09

DEVELOPMENT CREW MEMBERS: J. Williams

PURGING METHOD: electric submersible pump

SAMPLE NO.: —

SAMPLE TIME: —

WELL INFORMATION

WELL NUMBER: MW-24A

WELL TYPE (diameter/material) 4-inch ø bedrock

MEASURING POINT ELEVATION:

STATIC WATER DEPTH: 7.75 ELEVATION:

BOTTOM DEPTH: 14.2 ELEVATION:

WATER COLUMN LENGTH: 6.45

SCREENED INTERVAL:

WELL VOLUME: 4.1 gallons

Note: For 1-inch diameter well: 1 foot = 0.04 US gallons
1 meter = 0.5 liters
For 2-inch diameter well: 1 foot = 0.16 US gallons
1 meter = 2 liters
For 4-inch diameter well: 1 foot = 0.70 US gallons
1 meter = 8.2 liters

UNITS	1	2	3	4	5	TOTAL/ AVERAGE
VOLUME PURGED (volume/total volume): gallons	4	8	12	16	20	
FIELD pH: S.U.	7.28	7.24	6.82	6.78	6.77	
FIELD TEMPERATURE: °C	16.6	15.5	15.1	15.1	15.1	
FIELD CONDUCTIVITY: ms/cm	1.67	1.76	1.78	1.79	1.78	
CLARITY/TURBIDITY VALUES: NTU	156	215	146	87.2	36.8	
COLOR:	clear	gray	clear	clear	clear	
ODOR:	none	none	none	none	none	
COMMENTS:		slightly cloudy				

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME: Former Buffalo China Site PROJECT NO.: 37191

DATE OF WELL DEVELOPMENT: 6/24/09

DEVELOPMENT CREW MEMBERS: J. Williams

PURGING METHOD: electric submersible pump

SAMPLE NO.: —

SAMPLE TIME: —

WELL INFORMATION

WELL NUMBER: MW-25

WELL TYPE (diameter/material) 2" ϕ overburden

MEASURING POINT ELEVATION:

STATIC WATER DEPTH: dry ELEVATION:

BOTTOM DEPTH: 7.5 ELEVATION:

WATER COLUMN LENGTH: 0

SCREENED INTERVAL:

WELL VOLUME: 0

Note: For 1-inch diameter well: 1 foot = 0.04 US gallons
1 meter = 0.5 liters
For 2-inch diameter well: 1 foot = 0.16 US gallons
1 meter = 2 liters
For 4-inch diameter well: 1 foot = 0.70 US gallons
1 meter = 8.2 liters

UNITS	*1*	*2*	*3*	*4*	*5*	*TOTAL/ AVERAGE*
VOLUME PURGED (volume/total volume):						
FIELD pH:						
FIELD TEMPERATURE:						
FIELD CONDUCTIVITY:						
CLARITY/TURBIDITY VALUES:						
COLOR:						
ODOR:						
COMMENTS:						

COPIES TO:

WELL DEVELOPMENT AND STABILIZATION FORM

PROJECT NAME: Former Buffalo China Site PROJECT NO.: 37191

DATE OF WELL DEVELOPMENT: 6/24/09

DEVELOPMENT CREW MEMBERS: J. Williams

PURGING METHOD: electric submersible pump

SAMPLE NO.: —

SAMPLE TIME: —

WELL INFORMATION

WELL NUMBER: MW-25A

WELL TYPE (diameter/material) 4-inch ø Bedrock

MEASURING POINT ELEVATION: ELEVATION:

STATIC WATER DEPTH: 7.91 ELEVATION:

BOTTOM DEPTH: 13.3

WATER COLUMN LENGTH: 5.4

SCREENED INTERVAL:

WELL VOLUME: 3.5 gallons

Note: For 1-inch diameter well: 1 foot = 0.04 US gallons
1 meter = 0.5 liters
For 2-inch diameter well: 1 foot = 0.16 US gallons
1 meter = 2 liters
For 4-inch diameter well: 1 foot = 0.70 US gallons
1 meter = 8.2 liters

	UNITS	1	2	3	4	5	TOTAL/ AVERAGE
VOLUME PURGED (volume/total volume):	gallons	3.5	7.0	10.5	14.0	17.5	
FIELD pH:	S.U.	6.15	6.30	6.46	6.76	6.59	
FIELD TEMPERATURE:	°C	16.7	15.8	15.6	16.7	16.1	
FIELD CONDUCTIVITY:	mS/cm	0.93	0.99	0.80	0.79	0.80	
CLARITY/TURBIDITY VALUES:	NTU	395	6.2	0	54.3	0	
COLOR:		gray	—	—	—	—	
ODOR:		none	none	none	none	none	
COMMENTS:		slightly cloudy	clear	clear	clear	clear	

COPIES TO: _____

APPENDIX D

WELL PURGING AND SAMPLE RECORDS

DUP

ID GW-37191-052808-009
Time 1305

SAMPLE ID GW-37191-052808-005
TIME 1200

MONITORING WELL RECORD FOR LOW-FLOW PURGING

037191(4) AppB

Project Data:

Project Name: FORMER BUFFALO CHINA
Ref. No.: 37191

Date: 5-28-08
Personnel: DJT, BG

COFC # 4784

Monitoring Well Data:

Well No.: MW-4
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 5.00

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, Vp (mL)	No. of Well Screen Volumes Purged[4]
1108	60	5.45	0.45	6.46		29.8	10	4.92	238.0		
1113	60	5.55	0.55	6.48		34.1	7	4.67	226.0		
1118	60	5.59	0.59	6.47		46.9	7	4.50	222.0		
1123	60	5.63	0.63	6.47		50.2	8	4.45	215.0		
1128	60	5.65	0.65	6.48		54.4	8	4.32	218.0		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s=p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

INST. CONTROL #S
HORIBA - NF 04293
W/L METER - NF 04417

START PURGE @ 1050

Dave J Tyson

MONITORING WELL RECORD FOR LOW-FLOW PURGING

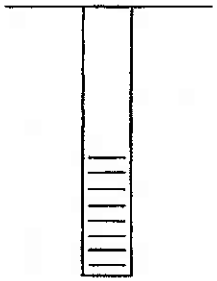
Project Data:

Project Name: Buffalo China
Ref. No.: 37191
Date: 1/13/09
Personnel: JWilliams

Monitoring Well Data:

Well No.: MW-4
Vapour PID (ppm): NM
Measurement Point: T.O.C.
Constructed Well Depth (m/ft): 9.6 ft.
Measured Well Depth (m/ft): 9.6 ft.
Depth of Sediment (m/ft): .0

Saturated Screen Length (m/ft): 5.0 ft.
Depth to Pump Intake (m/ft)[1]: 7.6 ft.
Well Diameter, D (cm/in): 2 in.
Well Screen Volume, V_s (L)[2]: 0.8 gallons
Initial Depth to Water (m/ft): 4.0 ft. BTOC



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3,4] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[3,4]
Precision Required[5]:				*±3 %*	*±0.005 or 0.01[5]*	*±10 %*	*±10 %*	*±0.1 Units*	*±10 mV*		
1040	100	4.82	0.82	8.0	0.301	12.3	5.24	7.02	NA	0.5	0.2
1045	75	5.21	1.21	8.3	0.221	11.3	2.37	6.97	NA	0.88	0.3
1050	75	5.3	1.3	7.6	0.317	14.1	1.48	6.94	NA	1.3	0.4
1055	75	5.36	1.36	8.1	0.349	14.8	0.84	6.85	NA	1.6	0.5
1100	75	5.39	1.39	8.1	0.352	14.6	0.81	6.87	NA	2.0	0.6
1105	75	5.38	1.38	8.1	0.354	14.6	0.82	6.88	NA	2.4	0.8
1110	75	5.39	1.39	8.0	0.354	14.7	0.81	6.90	NA	2.8	0.9

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

SAMPLE ID: WG-37191-072209-037
SAMPLE TIME 1145

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: FORMER BUFFALO CHINA
Ref. No.: 37191
Date: 7/22/09
Personnel: DJT/SG

Monitoring Well Data:

Well No.: MW-4
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):
Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 5.37

COC #

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1125	100	5.61	0.24	6.87	18.63	1.491	-51	1.87	46.3		
1130	100	5.71	0.34	6.87	18.36	1.488	-61	1.59	32.7		
1135		5.84	0.47	6.87	18.35	1.495	-64	1.45	20.9		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

INST. CONTROL #S
MP 20 - RENTAL
TURBIDIMETER - RENTAL
W/L METER - NFOAA21

START PURGE @ 1120

Shawn Maidment

WELL PURGING FIELD INFORMATION FORM

JOB# 37191-

SITE/PROJECT NAME: Buffalo China

WELL# MW5

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL. IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)
08/20/07	08/21/07	10.3	11.0

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	C	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X- PURGING OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	C	C - BLADDER PUMP	F - DIPPER BOTTLE		X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	A	A - TEFLON	D - PVC		X- PURGING OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING DEVICE	A	C - POLYPROPYLENE			X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE		A - TEFLON	D - POLYPROPYLENE	F - SILICONE	X- PURGING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	
SAMPLING DEVICE		C - ROPE	X- (SPECIFY)		X- SAMPLING OTHER (SPECIFY)

FILTERING DEVICES 0.45 | | A - IN-LINE DISPOSABLE | B - PRESSURE | C - VACUUM

FIELD MEASUREMENTS

WELL ELEVATION		(m/ft)	GROUNDWATER ELEVATION		(m/ft)
DEPTH TO WATER	7.56	(m/ft)	WELL DEPTH	9.62	(m/ft)

pH	TURBIDITY	CONDUCTIVITY	SAMPLE TEMPERATURE
7.83 (std)	143 (ntu)	2460 (µm/cm) AT 25°C	15.3 (°C)
7.11 (std)	000 (ntu)	2510 (µm/cm) AT 25°C	14.9 (°C)
7.14 (std)	000 (ntu)	2530 (µm/cm) AT 25°C	14.7 (°C)
(std)	(ntu)	(µm/cm) AT 25°C	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE: cloudy ODOR: COLOR: TURBIDITY:

WEATHER CONDITIONS: WIND SPEED DIRECTION PRECIPITATION Y/N OUTLOOK

SPECIFIC COMMENTS Dry at 1 gal.

Sampled on 8/21/07 at 1420.

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

CRA DATE 8/24/08 PRINT Shawn McEvoy SIGNATURE

Sample ID WG-37191-050808-008
Time 1420

037191 (4) AppB

MONITORING WELL RECORD FOR LOW-FLOW PURGING

CofC # 4784

Project Data:

Project Name: Former Buffalo China
Ref. No.: 37191
Date: 5-28-08
Personnel: SG, DJT

Monitoring Well Data:

Well No.: MW-5
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):
Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 4.42

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, Vp (mL)	No. of Well Screen Volumes Purged[4]
1347	70	5.28	0.86	6.63	14.1	1.77	226	3.97	64.8		
1352		5.39	0.97	6.57	14.2	1.71	218	2.54	55.8		
1357		5.47	1.05	6.57	14.2	1.68	207	2.74	62.3		
1402		5.52	1.10	6.57	14.1	1.69	201	2.74	57.1		
1407	70	5.61	1.19	6.57	14.0	1.70	195	2.70	61.3		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s=p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

Inst. Control #'s
W/L Meter NF03172
Horiba U-22 NF04288

Start Purge @ 1338

Dave Sygan

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Buffalo China
Ref. No.: 37191
Date: 11/20/09
Personnel: J. Williams

Monitoring Well Data:

Well No.: MW-5
Vapour PID (ppm): NM
Measurement Point: T.O.C.
Constructed Well Depth (m/ft): 8.9
Measured Well Depth (m/ft): 8.9
Depth of Sediment (m/ft): 0

Saturated Screen Length (m/ft): 5.0 ft.
Depth to Pump Intake (m/ft)[1]: 7.5 ft.
Well Diameter, D (cm/in): 2.0 ft.
Well Screen Volume, V_s (L)[2]: 0.8 gallons
Initial Depth to Water (m/ft): 3.04 ft.

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3][4] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
			Precision Required[5]:	±3 %	±0.005 or 0.01[5]	±10 %	±10 %	±0.1 Units	±10 mV		
1335	300	3.70	0.66	6.6	1.03	54.1	0.50	6.78	106	1.5	0.48
1340	200	3.82	0.78	6.9	1.07	29.2	0.46	6.68	110	2.5	0.80
1345	100	3.74	0.70	6.9	1.06	27.8	0.42	6.73	108	3.0	0.97
1350	100	3.69	0.65	6.4	1.08	28.1	0.47	6.72	101	3.5	1.13
1355	100	3.67	0.63	6.3	1.08	28.0	0.48	6.70	99	4.0	1.30

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches
(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing). No. of Well Screen Volumes Purged= Vp/Vs.
(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Sample ID WG-37191-072209-040
Time 1225

C of C #

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Buffalo China
Ref. No.: 37191

Date: 7-22-09
Personnel: SG/DJT

Monitoring Well Data:

Well No.: MW-5
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 4.61

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1155	70	5.19	0.58	7.54	21.16	2.29	-25	2.09	1.89		
1200		5.37	0.76	7.73	19.08	2.16	-39	0.77	5.20		
1205		5.41	0.80	7.58	19.08	2.07	-43	0.62	2.23		
1210		5.47	0.86	7.46	19.18	1.99	-45	0.56	1.66		
1215				7.39	18.82	1.90	-43	0.56	2.83		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = P^*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

Start Purge @ 1151

Inst. Control #'s
W/L Meter NF05034
Turbidimeter NF05042
MP-20 Rental

Dave Tyler

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Buffalo China
Ref. No.: 37191
Date: 1/20/09
Personnel: J.W. Hill

Monitoring Well Data:

Well No.: MW-5A
Vapour PID (ppm): NM
Measurement Point: T.O.C.
Constructed Well Depth (m/ft): 17.5
Measured Well Depth (m/ft): 17.5
Depth of Sediment (m/ft): 0

Saturated Screen Length (m/ft): 5.0 ft.
Depth to Pump Intake (m/ft)[1]: 15.0 ft.
Well Diameter, D (cm/in): 4.0 in.
Well Screen Volume, V_s (L)[2]: 3.2 gallons
Initial Depth to Water (m/ft): NM (NAPL)

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3,4] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[3,4]
Precision Required[5]:				±3 %	±0.005 or 0.01[5]	±10 %	±10 %	±0.1 Units	±10 mV		
1425	200	NM	NM	9.5	2.96	166	0.54	8.94	36	1.0	0.08
1430	200	↓	↓	9.5	2.93	161	0.56	8.99	22	2.0	0.16
1435	200	↓	↓	9.4	2.86	153	0.46	8.83	13	3.0	0.24
1440	200	↓	↓	9.4	2.85	151	0.48	8.83	11	4.0	0.32

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing). No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

DUP

Sample ID WG-37191-072209-038
Time 1145

MONITORING WELL RECORD FOR LOW-FLOW PURGING

CofC #

Project Data:

Project Name: Buffalo China
Ref. No.: 37191
Date: 7-22-09
Personnel: DJT/SG

Monitoring Well Data:

Well No.: MW-5A
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):
Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): NM due to LNAPL

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, Vp (mL)	No. of Well Screen Volumes Purged[4]
			NO field Parameters taken due to oily sheen								
			in purge water								
			Purged well for 20 minutes then sampled								

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

Inst. Control #'s
w/L Meter NF05034
Turbidimeter NF05042
MP-20 Rental

Start Purge @ 1123

Blind Dup WG-37191-072209-039
Time 1230

Dadj Tyran

WELL PURGING FIELD INFORMATION FORM

JOB# 37191-

SITE/PROJECT NAME: _____

WELL# MW6

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL. IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)
08 20 07	- - - - - -	0.04	0.01

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) (N) (CIRCLE ONE)

SAMPLING EQIPMENT.....DEDICATED (Y) (N) (CIRCLE ONE)

PURGING DEVICE	G	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X- PURGING OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	-	C - BLADDER PUMP	F - DIPPER BOTTLE		X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE		A - TEFLON	D - PVC		X- PURGING OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING DEVICE		C - POLYPROPYLENE			X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE		A - TEFLON	D - POLYPROPYLENE	F - SILICONE	X- PURGING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	
SAMPLING DEVICE		C - ROPE	X- (SPECIFY)		X- SAMPLING OTHER (SPECIFY)
FILTERING DEVICES 0.45		A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

WELL ELEVATION	(m/ft)	GROUNDWATER ELEVATION	(m/ft)
DEPTH TO WATER	9.01 (m/ft)	WELL DEPTH	9.09 (m/ft)

pH	TURBIDITY	CONDUCTIVITY	SAMPLE TEMPERATURE
6.73 (std)	157 (ntu)	0.025 (µm/cm) AT 25°C mS/cm	16.6 (°C)
(std)	(ntu)	(µm/cm) AT 25°C	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE: cloudy ODOR: _____ COLOR: _____ TURBIDITY: _____

WEATHER CONDITIONS: WIND SPEED _____ DIRECTION _____ PRECIPITATION Y (N) OUTLOOK _____

SPECIFIC COMMENTS

Dry at 1 volume.
No recovery on 8/21/07. No sample collected

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

CRA 8/24/08 (DATE) Shawn McEvoy (PRINT) (SIGNATURE)

Sample ID - WG-37191-052008-MW-6
Time 0940

MONITORING WELL RECORD FOR LOW-FLOW PURGING

037191 (4) AppB

Project Data:
Project Name: Former Buffalo Chime
Ref. No.: 37191

Date: 5-28-08
Personnel:
DJT, SEG

COC # 4784

Monitoring Well Data:
Well No.: MW-6
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 6.87

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
0852	60	7.25	0.38	6.13		2.35	-35	7.05	273.0		
0857	40	7.41	0.54	6.26		6.58	-39	6.58	232.0		
0902	50	7.49	0.62	6.36		8.20	-36	6.54	199.0		
0907	60	7.59	0.72	6.39		6.42					
0914	60	7.72	0.85	6.44		32.4	-2	5.41	106.7		
0919	50	7.80	0.93	6.44		41.3	5	4.73	29.7		
0924	50	7.88	1.01	6.44		35.1	11	4.68	8.8		
0929	50	7.98	1.11	6.44		32.5	19	4.56	0.0		
0934	50	8.03	1.16	6.43		31.2	22	4.50	1.4		

Notes:
(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
(2) The well screen volume will be based on a 5-foot screen length, $V_s=p*(D/2)^2*(5*12)*(2.54)^3$
(3) The drawdown from the initial water level should not exceed 0.3 ft.
(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

INST. CONTROL #'S
HORIBA - NF04293
W/L METER - NF04417

START PURGE @ 0834

* BATTERY ON SONDE WAS DYING @ 0905, REPLACED BATTERIES

Dave J Tyson

CRA 1001 (29) Rev. 6, September 13, 1999, Form SP-11B

MONITORING WELL RECORD FOR LOW-FLOW PURGING

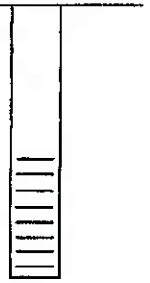
Project Data:

Project Name: Buffalo China
Ref. No.: 37191
Date: 1/20/09
Personnel: J. Williams

Monitoring Well Data:

Well No.: MW-6
Vapour PID (ppm): NM
Measurement Point: T.O.C.
Constructed Well Depth (m/ft): 8.51
Measured Well Depth (m/ft): 8.5
Depth of Sediment (m/ft): 0

Saturated Screen Length (m/ft): 2.27 ft.
Depth to Pump Intake (m/ft)[1]: 7.5 ft.
Well Diameter, D (cm/in): 2.0 in.
Well Screen Volume, V_s (L)[2]: 0.36 gallons
Initial Depth to Water (m/ft): 6.23 ft.



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3][4] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
			Precision Required[5]:	±3 %	±0.005 or 0.01[5]	±10 %	±10 %	±0.1 Units	±10 mV		
1025	300	6.31	0.08	5.8	0.90	25.9	2.65	7.05	97	1.5	1.08
1030	300	6.39	0.16	6.0	0.88	21.8	3.25	7.07	69	3.0	2.2
1035	200	6.48	0.25	6.4	0.85	23.2	4.12	7.05	59	4.0	2.9
1040	200	6.50	0.27	6.3	0.86	22.8	4.08	7.08	63	5.0	3.6
1045	200	6.52	0.29	6.0	0.87	23.2	4.06	7.06	66	6.0	4.3

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

SAMPLE ID: WG-37191-072209-035
SAMPLE TIME: 1110

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: FORMER BUFFALO CHINA
Ref. No.: 37191
Date: 7/22/09
Personnel: DJT/BG

Monitoring Well Data:

Well No.: MW-6
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):
Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 6.61

C of C #

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1035	100	6.98	0.37	6.94	16.41	0.728	-23	2.75	8.40		
1040	110	7.12	0.51	6.91	16.30	0.621	-15	2.94	3.40		
1045	100	7.37	0.76	6.92	16.19	0.696	-9	3.04	2.88		
1050	100	7.53	0.92	6.93	16.09	0.649	-13	1.98	1.68		
1055	100	7.70	1.09	6.94	16.11	0.643	-12	2.03	2.97		
1100	100	7.82	1.21	6.96	16.14	0.639	-12	1.90	2.16		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s=p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

START PURGE @ 1028

INST. CONTROL #5
MP 20 - RENTAL
TURBIDIMETER - RENTAL
W/L METER - NF04421

SAMPLE ID: WG-37191-072207-DUP
SAMPLE TIME: 1015

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: FORMER BUFFALO CHINA
Ref. No.: 37191
Date: 7/22/09
Personnel: DJT/SG

Monitoring Well Data:

Well No.: MW-6A
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):
Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 4.83

C of C #

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
0944	220	5.12	0.29	7.46	13.50	0.723	-195	1.08	299		
0949	220	5.20	0.37	7.51	13.46	0.738	-202	0.80	287		
0954	220	5.27	0.44	7.53	13.32	0.780	-210	0.90	266		
0959	220	5.31	0.48	7.54	13.32	0.842	-213	0.68	256		
1004	220	5.37	0.54	7.54	13.18	0.848	-216	0.66	249		
1009	220	5.40	0.57	7.54	13.26	0.866	-217	0.62	244		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s=p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

INST. CONTROL #S
MP20 - RENTAL
TURBIDIMETER - RENTAL W/L METER NF 04421

START PURGE @ 0935

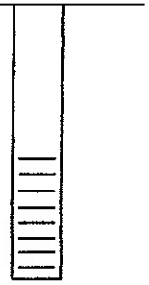
MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Buffalo China
Ref. No.: 37191
Date: 1/21/09
Personnel: J. Williams

Monitoring Well Data:

Well No.: MW-7
Vapour PID (ppm): NM
Measurement Point: T.O.C.
Constructed Well Depth (m/ft): 7.3
Measured Well Depth (m/ft): 7.2
Depth of Sediment (m/ft): 0.1
Saturated Screen Length (m/ft): 5.0 ft.
Depth to Pump Intake (m/ft)[1]: 5.0 ft.
Well Diameter, D (cm/in): 2.0 in.
Well Screen Volume, V_s (L)[2]: 0.8 gallons
Initial Depth to Water (m/ft): 1.68 ft.



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3][4] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[3][4]
			Precision Required[5]:	±3 %	±0.005 or 0.01[5]	±10 %	±10 %	±0.1 Units	±10 mV		
1200	300	1.78	0.10	7.8	1.51	31.4	1.3	6.76	212	1.5	0.48
1205	200	1.85	0.17	9.2	1.44	16.1	0	6.71	138	2.5	0.80
1210	100	1.86	0.18	8.8	1.45	13.7	0	6.69	112	3.0	0.97
1215	100	1.88	0.20	8.5	1.45	11.1	0	6.66	93	3.5	1.13

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Sample ID WG-37191-072209-030
Time 0840

MONITORING WELL RECORD FOR LOW-FLOW PURGING

C of C #

Project Data:
Project Name: Buffalo China
Ref. No.: 37191
Date: 7.22.09
Personnel: SG/DJT

Monitoring Well Data:
Well No.: MW-7
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):
Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 1.90

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, Vp (mL)	No. of Well Screen Volumes Purged[4]
0827	110	2.08	0.18	6.88	16.47	1.356	48	1.23	8.29		
0832		2.12	0.22	6.92	16.49	1.361	-6	0.65	6.31		
0837				6.92	16.52	1.369	-22	0.51	5.02		

Notes:
(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$
(3) The drawdown from the initial water level should not exceed 0.3 ft.
(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

Start Purge @ 0821

Inst. Control #'s
W/L Meter NF05034
Turbidimeter Rental
MP-20 Rental

Dave J Taylor

MONITORING WELL RECORD FOR LOW-FLOW PURGING

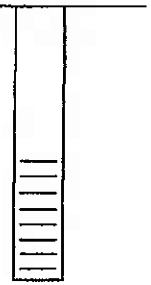
Project Data:

Project Name: Buffalo Chilca
Ref. No.: 37191
Date: 1/21/09
Personnel: J.W.Mills

Monitoring Well Data:

Well No.: MW-7A
Vapour PID (ppm): NM
Measurement Point: T.O.C.
Constructed Well Depth (m/ft): 14.6
Measured Well Depth (m/ft): 14.6
Depth of Sediment (m/ft): 0

Saturated Screen Length (m/ft): 5.0 ft.
Depth to Pump Intake (m/ft)[1]: 12.0 ft.
Well Diameter, D (cm/in): 4.0 in.
Well Screen Volume, V_s (L)[2]: 3.2 gallons
Initial Depth to Water (m/ft): 2.8 ft.



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3,4] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[3,4]
			Precision Required[3,5]:	±3 %	±0.005 or 0.01[5]	±10 %	±10 %	±0.1 Units	±10 mV		
1300	300	3.01	0.21	10.9	1.54	89.8	0.61	6.81	-39	1.5	0.12
1305	200	3.03	0.23	11.4	1.54	55.3	0	6.76	-40	2.5	0.20
1310	200	3.04	0.24	11.1	1.57	49.9	0	6.74	-45	3.5	0.28
1315	200	3.05	0.25	10.9	1.58	38.4	0	6.72	-51	4.5	0.36

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r ($r=D/2$) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.3 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing). No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

SAMPLE ID: WG-37191-072209-024
SAMPLE TIME. 0845

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: FORMER BUFFALO CHINA
Ref. No.: 37191
Date: 7/22/09
Personnel: DJT/SG

Monitoring Well Data:

Well No.: MW-3A
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):
Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 2.83

C of C#

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
0830	220	3.12	0.29	7.66	14.86	1.412	-236	1.85	18.1		
0835	220	3.12	0.29	7.66	14.90	1.410	-246	1.50	19.9		
0840		3.14	0.31	7.65	14.94	1.409	-251	1.41	20.1		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

INST. CONTROL #S
MP-20 - RENTAL
TURBIDIMETER - RENTAL
W/L METER - NF044421

START PURGE @ 0827

WELL PURGING FIELD INFORMATION FORM

JOB# 37191-

SITE/PROJECT NAME: Buffalo China

WELL# MW8

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL. IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)
08/20/07	08/21/07	0.5	2.1

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	G	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X- PURGING OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE		X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	A	A - TEFLON	D - PVC		X- PURGING OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING DEVICE	A	C - POLYPROPYLENE			X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE		A - TEFLON	D - POLYPROPYLENE	F - SILICONE	X- PURGING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	
SAMPLING DEVICE		C - ROPE	X- (SPECIFY)		X- SAMPLING OTHER (SPECIFY)

FILTERING DEVICES 0.45 [ ] A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM

FIELD MEASUREMENTS

WELL ELEVATION	(m/ft)	GROUNDWATER ELEVATION	(m/ft)
DEPTH TO WATER	4.51 (m/ft)	WELL DEPTH	7.88 (m/ft)

pH	TURBIDITY	CONDUCTIVITY	SAMPLE TEMPERATURE
7.24 (std)	264 (ntu)	3040 (µm/cm) AT 25°C	17.1 (°C)
7.07 (std)	375 (ntu)	3080 (µm/cm) AT 25°C	17.4 (°C)
7.08 (std) 7L	000 (ntu)	3150 (µm/cm) AT 25°C	17.0 (°C)
7.05 (std) 7L	000 (ntu)	3170 (µm/cm) AT 25°C	17.3 (°C)
(std)	(ntu)	(µm/cm) AT 25°C	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE: _____ ODOR: _____ COLOR: _____ TURBIDITY: _____

WEATHER CONDITIONS: WIND SPEED _____ DIRECTION _____ PRECIPITATION Y/N OUTLOOK _____

SPECIFIC COMMENTS

Dry at 2.1 gal

Sampled on 8/21/07 at 1620.

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

CRA 1/24/08 (DATE) Shaun McEvoy (PRINT) (SIGNATURE)

Sample ID GG-37191-052808-005
Time 1245

037191 (4) AppB

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Former Buffalo China
Ref. No.: 37191

Date: 5.28.08
Personnel: SG, DJT

CofC # 4784

Monitoring Well Data:

Well No.: MW-8
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 2.52

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, Vp (mL)	No. of Well Screen Volumes Purged[4]
1148	100	3.67	1.15	7.05	13.4	0.96	-37	0.67	32.9		
1153	80	3.76	1.24	7.03	13.6	0.94	-51	0.21	17.2		
1158	75	3.82	1.30	7.07	13.9	0.93	-33	0.66	14.2		
1203		3.91	1.39	7.08	14.0	0.91	4	1.53	17.2		
1208				7.11	13.9	0.90	19	2.55	20.6		
1213		4.12	1.60	7.06	14.2	0.968	29	2.80	15.7		
1218	80	4.22	1.70	7.00	14.2	0.930	34	1.52	3.5		
1223				6.97	14.2	0.915	37	0.97	1.9		
1228		4.39	1.89	6.97	14.3	0.902	39	0.62	0.0		
1233				6.96	14.6	0.886	43	0.52	0.0		
1238				6.96	14.0	0.887	45	0.54	0.0		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s=p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

Inst. Control #'s
w/L Meter NF03172
Horiba U-22 NF04288

Start Purge @ 1135

SAMPLE ID # WG-37191-030509-001
SAMPLE TIME: 1000

MONITORING WELL RECORD FOR LOW-FLOW PURGING

1 of 2

Project Data:
Project Name: BUFFALO CHINA
Ref. No.: 37191

Date: 3/5/09
Personnel: SG, DD

COFC # 18083

Monitoring Well Data:
Well No.: MW-8
Measurement Point: BTOC
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 2.29

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, Vp (mL)	No. of Well Screen Volumes Purged[4]
0840	100	2.29	-	7.18	Not reading correctly	1.654	71	2.74	210	1110	
0845	110	3.54	1.30	7.18	5.105	1.654	71	2.74	210	1110	
0850	110	3.71	1.42	7.15	5.43	1.334	42	2.63	219	1850	
0900	75	3.82	1.53	7.16	5.57	1.210	32	3.11	226	2225	
0905	75	3.94	1.65	7.18	5.44	1.096	27	3.43	195	2590	
0910	75	4.00	1.71	7.20	5.29	1.033	25	3.64	129	2965	
0915	75	4.11	1.82	7.25	5.44	1.046	26	2.58	93.8	3340	
0920	75	4.19	1.90	7.23	5.69	1.093	27	2.32	77.5	3715	
0925	75	4.29	1.99	7.25	5.65	1.144	29	1.94	50.1	4080	
0930	75	4.38	2.09	7.24	5.79	1.187	31	1.74	39.1	4455	
0935	75	4.48	2.19	7.24	6.09	1.252	32	1.57	28.9	4830	
0940	75	4.56	2.27	7.24	6.11	1.303	34	1.46	22.4	5195	
0945	75	4.64	2.35	7.23	6.39	1.350	35	1.36	16.8	5570	
0950	75	4.76	2.47	7.23	6.34	1.398	36	1.26	17.4	5950	

Notes:
(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
(2) The well screen volume will be based on a 5-foot screen length, $V_s=p*(D/2)^2*(5*12)*(2.54)^3$
(3) The drawdown from the initial water level should not exceed 0.3 ft.
(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

START PURGE @ 0840

INST. CONTROL #S
W/L METER NF05034
YSI 650MDS - NF04441

Shawn Macdonald

MONITORING WELL RECORD FOR LOW-FLOW PURGING

(2 of 2)

Project Data:

Project Name: Buffalo China
Ref. No.: 037191

Date: 3/5/09
Personnel: SGP RR

CdC # 18083

Monitoring Well Data:

Well No.: MW-8
Measurement Point: RTOC
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in): 2
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 2.29

Time	*Pumping Rate (mL/min)*	*Depth to Water (ft)*	*Drawdown from Initial Water Level[3] (ft)*	*pH*	*Temperature °C*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*	*Volume Purged, V_p (mL)*	*No. of Well Screen Volumes Purged[4]*
0959	75	4.86	2.57	7.22	6.37	1.446	36	1.19	20.9	8325	

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

Inst	Control #
W/L meter	NF05034
YSI 650 MDS	NF04441

[signature]

Sample ID GG-37191-072109-018
Time 0925

MONITORING WELL RECORD FOR LOW-FLOW PURGING

CofC# 19104

Project Data:

Project Name: Buffalo China
Ref. No.:
Date: 7-21-09
Personnel: DJT/SG

Monitoring Well Data:

Well No.: MW-8
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):
Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 2.03

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
0913	80	2.49	0.46	7.09	18.66	1.83	-105	2.34	21.2		
0918		2.89	0.86	7.11	18.47	1.82	-119	0.73	14.2		
0923		3.54	1.51	7.13	18.40	1.81	-121	0.63	15.9		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s=p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= V_p/V_s.

Start Purge @ 0910

Inst. Control #'S
W/L Meter NFO50347
MP-20 Rental
Turbidimeter ~~Rental~~ NFO5042

WELL PURGING FIELD INFORMATION FORM

JOB# 3 7 1 9 1 - [ ][ ]

SITE/PROJECT NAME: Buffalo China

WELL# [ ][ ][ ][ ] M W 9

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL. IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)
0 8 2 0 0 7	0 8 2 1 0 7	0.2	0.7

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	G	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X- PURGING OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE		X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	A	A - TEFLON	D - PVC		X- PURGING OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING DEVICE	A	C - POLYPROPYLENE			X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE		A - TEFLON	D - POLYPROPYLENE	F - SILICONE	X- PURGING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	
SAMPLING DEVICE		C - ROPE	X- (SPECIFY)		X- SAMPLING OTHER (SPECIFY)

FILTERING DEVICES 0.45 [ ] A - IN-LINE DISPOSABLE B - PRESSURE C - VACUUM

FIELD MEASUREMENTS

WELL ELEVATION	(m/ft)	GROUNDWATER ELEVATION	(m/ft)
DEPTH TO WATER	5.06 (m/ft)	WELL DEPTH	6.41 (m/ft)

pH	TURBIDITY	CONDUCTIVITY	SAMPLE TEMPERATURE
7.3 (std)	789 (ntu)	1730 (µm/cm) AT 25°C	16.1 (°C)
7.6 (std)	71000 (ntu)	1700 (µm/cm) AT 25°C	15.8 (°C)
7.3 (std)	71000 (ntu)	1690 (µm/cm) AT 25°C	15.7 (°C)
(std)	(ntu)	(µm/cm) AT 25°C	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE: _____ ODOR: _____ COLOR: _____ TURBIDITY: _____

WEATHER CONDITIONS: WIND SPEED _____ DIRECTION _____ PRECIPITATION Y/N OUTLOOK _____

SPECIFIC COMMENTS: Dry at 0.7 gal

Sampled on 8/21/07 at 1730.

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

CRA 1/24/08 (DATE) Shaun McEvoy (PRINT) (SIGNATURE)

Sample ID MW-37191-052808-001
Time 1015

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Former Buffalo China
Ref. No.: 37191

Date: 5/28/08
Personnel: SG, DJT

CofC # 4784

Monitoring Well Data:

Well No.: MW9
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 1.71

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
0902		2.11	0.40	5.99	12.0	1.28	266	1.68	153		
0912	100	2.16	0.45	6.21	12.2	1.29	216	0.99	82		
0917		2.17	0.46	6.22	12.4	1.31	201	0.63	72.1		
0922		2.18	0.47	6.25	12.7	1.36	165	0.43	32.1		
0927				6.26	12.8	1.41	132	0.40	26.6		
0932		2.20	0.49	6.30	12.9	1.42	101	0.26	30.1		
0937		2.21	0.50	6.31	12.9	1.44	84	0.15	16.1		
0942				6.30	13.1	1.45	69	0.20	15.4		
0947				6.34	13.2	1.47	56	0.17	8.2		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s=p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

Inst. Control #'s
w/L Meter NF03172
Horiba U-22 NF041288

Start Purge @ 0853

David J Tyran

MONITORING WELL RECORD FOR LOW-FLOW PURGING

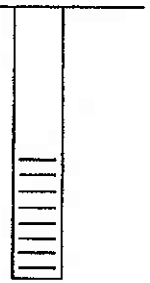
Project Data:

Project Name: Buffalo China
Ref. No.: 37191
Date: 1/19/09
Personnel: J. Williams

Monitoring Well Data:

Well No.: MW-9
Vapour PID (ppm): NM
Measurement Point: T.O.C.
Constructed Well Depth (m/ft): 6.02 ft.
Measured Well Depth (m/ft): 6 ft.
Depth of Sediment (m/ft): 0.02 ft.

Saturated Screen Length (m/ft): 4.6 ft.
Depth to Pump Intake (m/ft)[1]: 4.0 ft.
Well Diameter, D (cm/in): 2.0 in.
Well Screen Volume, V_s (L)[2]: 0.74 gallons
Initial Depth to Water (m/ft): 1.39 ft.



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
			Precision Required[5]:	±3 %	±0.005 or 0.01[5]	±10 %	±10 %	±0.1 Units	±10 mV		
1055	200	1.43	0.04	NM	0.999	28.2	6.59	7.25	NA	1.0	0.35
1100	100	1.59	0.2	3.9	0.773	22.6	2.5	7.04	NA	1.5	0.52
1105	100	1.57	0.18	4.9	0.650	21.2	1.9	7.03	NA	2.0	0.70
1110	100	1.57	0.18	5.1	0.675	9.8	2.1	7.02	NA	2.5	0.87
1115	100	1.57	0.18	5.1	0.675	6.0	2.1	7.01	NA	3.0	1.05

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

SAMPLE ID: WG-37191-072109-015
SAMPLE TIME: 0900

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: FORMER BUFFALO CHINA
Ref. No.: 37191
Date: 7/21/09
Personnel: DJT/SG

Monitoring Well Data:

Well No.: MW-9
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):
Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 2.25

C-OF-C # 19104

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
0840	100	2.52	0.27	6.68	16.27	1.75	48	2.01	13.8		
0845	100	2.65	0.40	6.66	16.29	1.75	42	1.49	16.8		
0850	100	2.75	0.50	6.66	16.50	1.76	38	1.41	13.4		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s=p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

INST. CONTROL AS
MP-20 - RENTAL
TURBIDIMETER - RENTAL
W/L METER - NFO 4421

START PURGE @ 0833

Shawn Haldrup

Sample ID WG-37191-012109-014
Time 0855

MONITORING WELL RECORD FOR LOW-FLOW PURGING

CofC # 19104

Project Data:

Project Name: Buffalo China
Ref. No.: 37191
Date: 7-21-09
Personnel: SG/DST

Monitoring Well Data:

Well No.: MW 9A
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):
Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 11.18

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
0840	200	11.18	0.00	6.77	13.50	2.06	-54	2.30	96.8		
0845				7.04	12.51	2.00	-113	1.22	103		
0850		11.18	0.00	7.11	12.39	2.09	-125	0.83	52.1		
0855				7.15	12.52	2.09	-130	0.66	38.7		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

Start Purge @ 0836

Inst. Control #'s
W/L Meter NFO5034
MP-20 Rental
Turbidimeter Rental

David Tyree

MONITORING WELL RECORD FOR LOW-FLOW PURGING

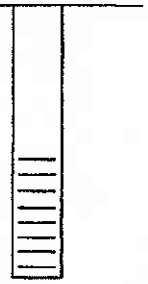
Project Data:

Project Name: Buffalo China
Ref. No.: 37191
Date: 11/19/09
Personnel: J. Williams

Monitoring Well Data:

Well No.: MW-9A
Vapour PID (ppm): NM
Measurement Point: T.O.C.
Constructed Well Depth (m/ft): 26.0 ft.
Measured Well Depth (m/ft): 26.0 ft.
Depth of Sediment (m/ft): 0 ft.

Saturated Screen Length (m/ft): 16.8 ft. (corehole)
Depth to Pump Intake (m/ft)[1]: 23.0 ft.
Well Diameter, D (cm/in): 4.0 in.
Well Screen Volume, V_s (L)[2]: 10.75 gallons
Initial Depth to Water (m/ft): 11.0 ft.



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3][4] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
			Precision Required[5]:	±3 %	±0.005 or 0.01[5]	±10 %	±10 %	±0.1 Units	±10 mV		
1210	300	11.02	0.02	10.1	0.206	302	2.43	6.74	-78	1.5	0.04
1215	300	11.02	0.02	10.2	0.335	227	1.14	6.77	-99	3.0	0.07
1220	300	11.02	0.02	10.2	0.603	190	0.49	6.77	-112	4.5	0.11
1225	300	11.02	0.02	10.2	0.607	166	0.37	6.77	-117	6.0	0.14
1230	300	11.02	0.02	10.2	0.607	148	0.36	6.77	-119	7.5	0.18

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches
(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.
(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

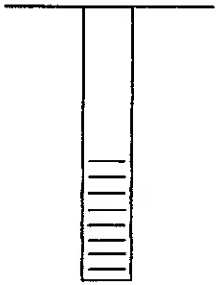
Project Data:

Project Name: Buffalo China
Ref. No.: 37191
Date: 1/22/09
Personnel: J. Williams

Monitoring Well Data:

Well No.: MW-10
Vapour PID (ppm): NM
Measurement Point: T.O.C.
Constructed Well Depth (m/ft): NM
Measured Well Depth (m/ft): NM
Depth of Sediment (m/ft): —

Saturated Screen Length (m/ft): < 2.0 ft.
Depth to Pump Intake (m/ft)[1]: ~ 8.0 ft.
Well Diameter, D (cm/in): 2.0 in.
Well Screen Volume, V_s (L)[2]: 0.32 gallons
Initial Depth to Water (m/ft): 7.67 ft.



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3][4] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
	Precision Required[5]:			±3 %	±0.005 or 0.01[5]	±10 %	±10 %	±0.1 Units	±10 mV		
1045	7.71	0.04	200	9.1	0.001	223	12.1	7.12	185	1.0	0.80
1050	7.73	0.06	200	7.1	0.001	258	12.6	7.27	181	2.0	1.60
1055	7.75	0.08	200	6.7	0.002	242	12.3	7.35	179	3.0	2.40
1100	7.76	0.09	200	6.6	0.001	238	11.9	7.39	178	4.0	3.20
1105	7.78	0.11	200	7.3	0.001	241	11.5	7.39	180	5.0	4.0

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Sample ID WG-37191-072009-011
Time 1500

MONITORING WELL RECORD FOR LOW-FLOW PURGING

CofC # 19127

Project Data:

Project Name: Buffalo China
Ref. No.: 37191
Date: 7-20-09
Personnel: DJ/SG

Monitoring Well Data:

Well No.: MW-10
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):
Screen Length (ft):
Depth to Pump Intake (ft)(1):
Well Diameter, D (in):
Well Screen Volume, V_s (mL)(2):
Initial Depth to Water (ft): 7.63

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level (3) (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged (4)
1450		7.73	0.10	7.79	20.45	1.209	102	2.11	5.27		
1455	90	7.78	0.15	7.84	18.45	1.153	122	1.73	1.53		
1500		7.82	0.19	7.96	17.82	1.147	133	1.39	0.53		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

Start Purge @ 1446

Inst. Control #'s
W/L Meter NF05034
MP-20 Rental
Turb. Meter Rental

[signature]

MONITORING WELL RECORD FOR LOW-FLOW PURGING

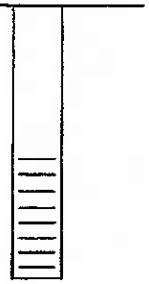
Project Data:

Project Name: Buffalo China
Ref. No.: 37191
Date: 1/22/09
Personnel: J. Williams

Monitoring Well Data:

Well No.: MW-11
Vapour PID (ppm): NM
Measurement Point: T.O.C.
Constructed Well Depth (m/ft): NM
Measured Well Depth (m/ft): NM
Depth of Sediment (m/ft): NM

Saturated Screen Length (m/ft): 5.0 ft.
Depth to Pump Intake (m/ft)[3]: ~7.5 ft.
Well Diameter, D (cm/in): 2.0 in.
Well Screen Volume, V_s (L)[2]: 0.8 gallons
Initial Depth to Water (m/ft): 5.42 ft.



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3][4] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[5]	±10 %	±10 %	±0.1 Units	±10 mV		
1225	300	5.52	0.10	6.0	0.002	236	10.9	7.70	184	1.5	0.48
1230	200	5.56	0.14	7.8	0.002	235	10.1	7.72	182	2.5	0.80
1235	200	5.59	0.17	7.9	0.002	235	10.1	7.62	184	3.5	1.13
1240	200	5.61	0.19	8.2	0.002	235	10.1	7.65	185	4.5	1.45

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing). No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Sample ID WG-37191-072009-006
Time 1340

MONITORING WELL RECORD FOR LOW-FLOW PURGING

CofC# 9127

Project Data:
Project Name: Buffalo China
Ref. No.: 37191
Date: 7-20-09
Personnel: DJT/SG

Monitoring Well Data:
Well No.: MW-11
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):
Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 5.96

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1313	50	6.12	0.16	7.24	21.16	2.95	-98	2.08	115		
1318		6.19	0.23	7.72	20.04	2.38	-75	0.59	91.3		
1323	60	6.27	0.31	7.71	19.99	1.68	-14	0.77	70		
1328		6.33	0.37	7.67	20.41	1.441	33	1.09	50.5		
1333		6.41	0.45	7.66	20.59	1.330	59	1.25	35.1		
1338				7.65	20.82	1.351	71	1.28	20.2		

Notes:
(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
(2) The well screen volume will be based on a 5-foot screen length, $V_s=p*(D/2)^2*(5*12)*(2.54)^3$
(3) The drawdown from the initial water level should not exceed 0.3 ft.
(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

Start Purge @ 1309

Inst. Control #'S
W/L Meter NFO5034
MP-20 Rental
Turb. Meter Rental
Dale J Tyler

WELL PURGING FIELD INFORMATION FORM

JOB# 37191-

SITE/PROJECT NAME: Buffalo China

WELL# MW12

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL. IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)
08/20/07	08/21/07	02.144	06

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

SAMPLING EQIPMENT.....DEDICATED (Y) N (CIRCLE ONE)

PURGING DEVICE	G	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X- PURGING OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE		X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE	A	A - TEFLON	D - PVC		X- PURGING OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING DEVICE	A	C - POLYPROPYLENE			X- SAMPLING OTHER (SPECIFY)
PURGING DEVICE		A - TEFLON	D - POLYPROPYLENE	F - SILICONE	X- PURGING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	
SAMPLING DEVICE		C - ROPE	X- (SPECIFY)		X- SAMPLING OTHER (SPECIFY)
FILTERING DEVICES 0.45		A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

WELL ELEVATION	(m/ft)	GROUNDWATER ELEVATION	(m/ft)
DEPTH TO WATER	10.71 (m/ft)	WELL DEPTH	12.05 (m/ft)

pH	TURBIDITY	CONDUCTIVITY	SAMPLE TEMPERATURE
7.5 (std)	140 (ntu)	2190 (µm/cm) AT 25°C	14.3 (°C)
7.2 (std)	265 (ntu)	2190 (µm/cm) AT 25°C	14.1 (°C)
7.2 (std)	102 (ntu)	2170 (µm/cm) AT 25°C	14.1 (°C)
(std)	(ntu)	(µm/cm) AT 25°C	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE: _____ ODOR: _____ COLOR: _____ TURBIDITY: _____

WEATHER CONDITIONS: WIND SPEED _____ DIRECTION _____ PRECIPITATION Y/(N) OUTLOOK _____

SPECIFIC COMMENTS Dry at 0.6 gal

Sampled on 8/21/07 at 1570.

Blind duplicate sampled on 8/21/07 at 1545.

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

CRA 1/24/08 (DATE) Shaun McEvoy (PRINT) (SIGNATURE)

ID WG-37191-052808-007 SAMPLE ID WG-37191-052808-007

DUP Time 1600 TIME 1445

037191 (4) AppB

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: BUFFALO FORMER CHINA

Ref. No.: 37191

Date: 5-28-08

Personnel: DJT 369

COC # 4784

Monitoring Well Data:

Well No.: MW-12

Measurement Point:

Constructed Well Depth (ft):

Measured Well Depth (ft):

Depth of Sediment (ft):

Screen Length (ft):

Depth to Pump Intake (ft)[1]:

Well Diameter, D (in):

Well Screen Volume, V_s (mL)[2]:

Initial Depth to Water (ft): 9.15

9.15 - 2.01 7.14

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1324	120	9.42	0.27	6.32		>99.9	105	4.28	285.0		
1329	110	9.54	0.39	6.39		>99.9	107	4.05	266.0		
1334	100	9.61	0.46	6.40		>99.9	109	3.40	250.0		
1339	100	9.71	0.56	6.43		>99.9	103	2.63	233.0		
1344	100	9.81	0.66	6.39		>99.9	102	3.21	230.0		
1349	100	9.88	0.73	6.41		>99.9	96	3.18	228.0		
1354	100	9.98	0.83	6.43		>99.9	94	3.24	221.0		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

INST. CONTROL #S

HORIBA - NF04293

W/L METER - NF03172

START PURGE @ 1315

Dave Ryan

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

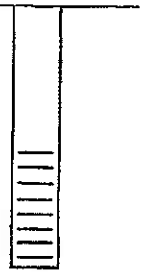
Project Name: Buffalo China
Ref. No.: 37191

Date: 1/13/09
Personnel: J. Williams

Monitoring Well Data:

Well No.: MW-12
Vapour PID (ppm): NM
Measurement Point: T.O.C.
Constructed Well Depth (m/ft): 12.7 ft.
Measured Well Depth (m/ft): 12.1 ft.
Depth of Sediment (m/ft): 0.6 ft.

Saturated Screen Length (m/ft): 4.01 ft.
Depth to Pump Intake (m/ft)[1]: 10 ft.
Well Diameter, D (cm/in): 2.0 in.
Well Screen Volume, V_s (L)[2]: 0.64 gallons
Initial Depth to Water (m/ft): 8.09 ft.



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
			Precision Required[5]:	±3 %	±0.005 or 0.01[5]	±10 %	±10 %	±0.1 Units	±10 mV		
1410	200	8.60	0.51	7.3	0.200	39.4	2.74	6.87	NM	1.0	0.4
1415	100	8.70	0.61	6.6	0.229	33.7	2.95	6.86	NM	1.5	0.6
1420	100	8.81	0.72	6.5	0.230	26.2	3.6	6.88	NM	2.0	0.8
1425	100	8.82	0.73	6.4	NM	16.1	3.2	6.87	NM	2.5	1.0

Notes:
(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L*$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches
(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing). No. of Well Screen Volumes Purged= Vp/Vs.
(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Sample ID WG-37191-072209-056
Time 1115

MONITORING WELL RECORD FOR LOW-FLOW PURGING

C of C #

Project Data:

Project Name: Buffalo China
Ref. No.:
Date: 7-22-09
Personnel: DJT
SG

Monitoring Well Data:

Well No.: MW-12
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):
Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 8.97

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1056	70	9.16	0.19	7.36	17.92	0.912	105	1.42	152		
1101	70	9.27	0.30	7.40	17.59	0.862	94	0.86	133		
1106				7.39	17.66	0.830	70	0.80	110		
1111		9.30	0.41	7.37	17.89	0.817	34	0.80	46.9		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

Start Purge @ 1050

Inst. Control #5
W/L Meter NFA5034
Turbidimeter NFA5012
MP-20 Rental

Dave Tyler

WELL PURGING FIELD INFORMATION FORM

JOB# 37191-

SITE/PROJECT NAME: _____

WELL# MW13

WELL PURGING INFORMATION

PURGE DATE (MM DD YY)	SAMPLE DATE (MM DD YY)	WATER VOL. IN CASING (LITRES/GALLONS)	ACTUAL VOLUME PURGED (LITRES/GALLONS)
08/20/07			

PURGING AND SAMPLING EQUIPMENT

PURGING EQUIPMENT.....DEDICATED (Y) (N) (CIRCLE ONE)

SAMPLING EQIPMENT.....DEDICATED (Y) (N) (CIRCLE ONE)

PURGING DEVICE	G	A - SUBMERSIBLE PUMP	D - GAS LIFT PUMP	G - BAILER	X- _____ PURGING OTHER (SPECIFY)
		B - PERISTALTIC PUMP	E - PURGE PUMP	H - WATERRA®	
SAMPLING DEVICE	G	C - BLADDER PUMP	F - DIPPER BOTTLE		X- _____ SAMPLING OTHER (SPECIFY)
PURGING DEVICE		A - TEFLON	D - PVC		X- _____ PURGING OTHER (SPECIFY)
		B - STAINLESS STEEL	E - POLYETHYLENE		
SAMPLING DEVICE		C - POLYPROPYLENE			X- _____ SAMPLING OTHER (SPECIFY)
PURGING DEVICE		A - TEFLON	D - POLYPROPYLENE	F - SILICONE	X- _____ PURGING OTHER (SPECIFY)
		B - TYGON	E - POLYETHYLENE	G - COMBINATION TEFLON/POLYPROPYLENE	
SAMPLING DEVICE		C - ROPE	X- _____ (SPECIFY)		X- _____ SAMPLING OTHER (SPECIFY)
FILTERING DEVICES 0.45		A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	

FIELD MEASUREMENTS

WELL ELEVATION	(m/ft)	GROUNDWATER ELEVATION	(m/ft)
DEPTH TO WATER	(m/ft)	WELL DEPTH	(m/ft)

pH	TURBIDITY	CONDUCTIVITY	SAMPLE TEMPERATURE
(std)	(ntu)	(µm/cm) AT 25°C	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(°C)
(std)	(ntu)	(µm/cm) AT 25°C	(°C)

FIELD COMMENTS

SAMPLE APPEARANCE: _____ ODOR: _____ COLOR: _____ TURBIDITY: _____

WEATHER CONDITIONS: WIND SPEED _____ DIRECTION _____ PRECIPITATION Y/N OUTLOOK _____

SPECIFIC COMMENTS

well had been developed on 8/3/07. Purged to dry.

well was still dry on 8/20/07. No sample collected

I CERTIFY THAT SAMPLING PROCEDURES WERE IN ACCORDANCE WITH APPLICABLE CRA PROTOCOLS

CRA 1/24/08 (DATE) Shawn McEvoy (PRINT) (SIGNATURE)

037191 (4) AppB

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: FORMER BUFFALO CHINA
Ref. No.: 37191

Date: 5-28-08
Personnel: DJT, SG

Monitoring Well Data:

Well No.: MW-13
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 6.49

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
		well Dry			NO Sample Taken						

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

START PURGE @ 1035

Dave J Tyan

Well Dry No Sample Sample ID Time

MONITORING WELL RECORD FOR LOW-FLOW PURGING

CofC #

Project Data:

Project Name: Buffalo China

Ref. No.: 37191

Date: 7-22-09

Personnel: DJT/SG

Monitoring Well Data:

Well No.: MW-13

Measurement Point:

Constructed Well Depth (ft):

Measured Well Depth (ft):

Depth of Sediment (ft):

Screen Length (ft):

Depth to Pump Intake (ft)[1]:

Well Diameter, D (in):

Well Screen Volume, V_s (mL)[2]:

Initial Depth to Water (ft): 6.57

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
		Purged 260ml			well	Dry					

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s=p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

Inst. Control #'s
w/L Meter NF05034
Turbidimeter Rental NF05340
MP-20 Rental

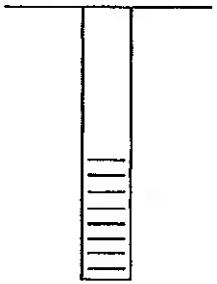
Start Purge @ 0928

Dan J Yan

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Buffalo China
Ref. No.: 37191
Date: 1/19/09
Personnel: J. Williams



Monitoring Well Data:

Well No.: MW-13A
Vapour PID (ppm): NM
Measurement Point: T.O.C.
Constructed Well Depth (m/ft): 14.4 ft.
Measured Well Depth (m/ft): 14.4 ft.
Depth of Sediment (m/ft): 0 ft.

Saturated Screen Length (m/ft): 4.5 ft. (corehole)
Depth to Pump Intake (m/ft)[1]: 12.5 ft.
Well Diameter, D (cm/in): 4.0 in.
Well Screen Volume, V_s (L)[2]: 2.9 gallons
Initial Depth to Water (m/ft): 6.01 ft.

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
			Precision Required[5]:	±3 %	±0.005 or 0.01[5]	±10 %	±10 %	±0.1 Units	±10 mV		
1415	300	6.08	0.07	8.8	0.90	213	5.51	6.64	83	1.5	0.13
1420	200	6.11	0.10	8.7	0.90	149	4.21	6.73	76	2.5	0.22
1425	200	6.13	0.12	8.7	0.90	130	1.89	6.77	62	3.5	0.31
1430	200	6.15	0.14	8.7	0.90	147	1.95	6.75	64	4.5	0.40
1435	200	6.16	0.15	8.8	0.90	153	1.91	6.78	63	5.5	0.49

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L*$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches
(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing). No. of Well Screen Volumes Purged= Vp/Vs.
(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Sample ID WG-37191-072209-034
Time 1010

MONITORING WELL RECORD FOR LOW-FLOW PURGING

CofC #

Project Data:

Project Name: Buffalo China
Ref. No.: 37191
Date: 7-22-09
Personnel: DST/SG

Monitoring Well Data:

Well No.: MW-13A
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):
Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 6.49

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
0954		6.68	0.19	7.26	16.68	2.11	-19	2.24	41.9		
1004		6.71	0.22	7.30	15.19	2.04	-70	1.19	28.4		
1009	100			7.39	15.17	2.00	-74	0.90	22.0		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s=p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

Start Purge @ 0956

Inst. Control #'s
w/L Meter NF05034
Turbidimeter NF5012
MP-20 Rental

Dave J Tyler

DTI 7/22/09 well Dry Sample ID
No Sample Taken Time

MONITORING WELL RECORD FOR LOW-FLOW PURGING

CofC #
@1910A

Project Data:

Project Name: Buffalo China
Ref. No.: 37191
Date: 7-20-09
Personnel: DJT/SG

Monitoring Well Data:

Well No.: MW-14
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):
Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 8.38

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
	60										
		Well Dry		Insufficient Volume for field parameters							

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s=p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

Inst. Control #'S
W/L Meter NFO5034
MP-20 Rental

Start Purge @ 1252

Dave Nyer

MONITORING WELL RECORD FOR LOW-FLOW PURGING

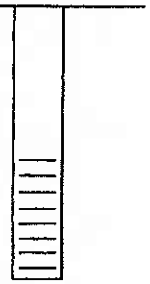
Project Data:

Project Name: Buffalo China
Ref. No.: 37191
Date: 11/22/09
Personnel: J. Williams

Monitoring Well Data:

Well No.: MW-14A
Vapour PID (ppm): NM
Measurement Point: T.O.C.
Constructed Well Depth (m/ft): 13.6
Measured Well Depth (m/ft): 13.6
Depth of Sediment (m/ft): 0

Saturated Screen Length (m/ft): 2.20 ft.
Depth to Pump Intake (m/ft)[1]: 13.0 ft.
Well Diameter, D (cm/in): 4.0 in.
Well Screen Volume, V_s (L)[2]: 1.4 gallons
Initial Depth to Water (m/ft): 11.4 ft.



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3][4] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
			Precision Required[5]:	±3 %	±0.005 or 0.01[5]	±10 %	±10 %	±0.1 Units	±10 mV		
1335	300	11.4	0	7.4	0.002	78	10	6.25	190	1.5	0.28
1340	300	11.4	0	9.4	0.002	52	9.6	6.21	192	3.0	0.56
1345	300	11.4	0	9.9	0.002	34	9.7	6.20	194	4.5	0.84

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches
(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing). No. of Well Screen Volumes Purged= Vp/Vs.
(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

SAMPLE ID: WG-37191-072009-005
SAMPLE TIME: 1315

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: FORMER BUFFALO CHINA
Ref. No.: 37191
Date: 7/20/09
Personnel: DJT/SG

Monitoring Well Data:

Well No.: MW-14A
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):
Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 11.61

CofC# 19127

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1250	360	11.61	0.00	7.66	12.97	0.916	-9	2.94	23.9		
1255	360	11.61	0.00	7.40	12.65	0.847	-11	1.83	8.63		
1300	360	11.61	0.00	7.30	12.30	0.845	-10	1.54	9.56		
1305	360	11.61	0.00	7.23	12.27	0.846	-10	1.21	8.48		
1310	360	11.61	0.00	7.20	12.18	0.845	-9	1.14	6.26		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

INST. CONTROL #S
MP-20 - RENTAL
TURBIDIMETER - RENTAL
W/L METER NFO 4421

START PURGE @ 1241

Dan J Lyon

MONITORING WELL RECORD FOR LOW-FLOW PURGING

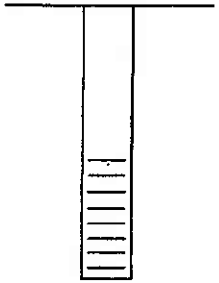
Project Data:

Project Name: Buffalo China
Ref. No.: 37191
Date: 1/23/09
Personnel: J. Williams

Monitoring Well Data:

Well No.: MW-15A
Vapour PID (ppm): NM
Measurement Point: T.O.C.
Constructed Well Depth (m/ft): 14.2
Measured Well Depth (m/ft): 14.2
Depth of Sediment (m/ft): 0

Saturated Screen Length (m/ft): 3.8 ft.
Depth to Pump Intake (m/ft)[1]: 12.0 ft.
Well Diameter, D (cm/in): 4.0 in.
Well Screen Volume, V_s (L)[2]: 2.5 gallons
Initial Depth to Water (m/ft): 10.36 ft.



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
			Precision Required[5]:	±3 %	±0.005 or 0.01[5]	±10 %	±10 %	±0.1 Units	±10 mV		
1013	300	10.42	0.06	11.5	3.16	89	0	7.12	109	1.5	0.15
1018	200	10.50	0.14	12.0	3.06	70	0	7.10	105	2.5	0.26
1023	200	10.51	0.15	12.1	3.01	83	0	7.10	103	3.5	0.36
1028	200	10.52	0.16	12.1	2.99	73	0	7.09	104	4.5	0.46

Notes:
(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches
(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.
(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

SAMPLE ID: WG-37191-072009-01L
SAMPLE TIME: 1550

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: FORMER BUFFALO CHINA
Ref. No.: 37191
Date: 7/20/09
Personnel: DJT/SG

Monitoring Well Data:

Well No.: MW-15A
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):
Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 10.51

C of C a
19127

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1535	280	10.61	0.10	7.30	15.27	2.26	-18	15.88	35.1		
1540	280	10.68	0.17	7.27	15.22	2.24	-14	7.71	27.4		
1545	280	10.75	0.24	7.23	15.29	2.23	-11	6.82	26.2		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$
(3) The drawdown from the initial water level should not exceed 0.3 ft.
(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

INST. CONTROL FS
MP-20 RENTAL
TURBIDI METER - RENTAL
W/L METER - NF044ZI

START PURGE @ 1530

Dave J Tyson

Sample ID GG-37191-052808-009
Time 1545

037191 (4) AppB

MONITORING WELL RECORD FOR LOW-FLOW PURGING

CofC # 4784

Project Data:

Project Name: Former Buffalo China
Ref. No.: 37191

Date: 5-28-08
Personnel: SG, DJT

Monitoring Well Data:

Well No.: MW-17
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 7.61

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1447	105	7.92	0.31	6.77	13.4	1.88	230	5.40	2.3		
1452		8.06	0.45	6.70	13.2	1.83	231	3.53	1.3		
1457		8.20	0.59	6.70	13.2	1.83	230	3.40	1.6		
1502	105	8.32	0.71	6.70	13.0	1.84	229	3.22	1.8		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

Inst. Control #'s
W/L Meter NE04417
Horiba U-22 NE04288

Start Purge @ 1439

David J Tyler

MONITORING WELL RECORD FOR LOW-FLOW PURGING

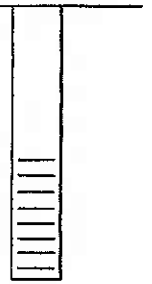
Project Data:

Project Name: Buffalo China
Ref. No.: 37191
Date: 1/20/09
Personnel: J. Willis

Monitoring Well Data:

Well No.: MW-17
Vapour PID (ppm): NM
Measurement Point: T.O.C.
Constructed Well Depth (m/ft): 11.5
Measured Well Depth (m/ft): 11.5
Depth of Sediment (m/ft): 0

Saturated Screen Length (m/ft): 5.0 ft
Depth to Pump Intake (m/ft)[1]: 10.0 ft.
Well Diameter, D (cm/in): 2.0 in.
Well Screen Volume, V_s (L)[2]: 0.8 gallons
Initial Depth to Water (m/ft): 4.27 ft



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				*±3 %*	*±0.005 or 0.01[5]*	*±10 %*	*±10 %*	*±0.1 Units*	*±10 mV*		
1235	300	4.36	0.09	5.6	0.84	180	9.78	6.96	109	1.5	0.48
1240	200	4.52	0.25	6.5	0.90	47.8	7.27	6.95	127	2.5	0.80
1245	100	4.50	0.23	6.5	1.02	30	2.61	6.99	122	3.0	0.97
1250	100	4.48	0.21	6.5	1.05	25.7	0.60	6.98	123	3.5	1.13
1255	100	4.49	0.22	6.8	1.08	22.4	0.80	6.96	125	4.0	1.30
1300	100	4.48	0.21	7.1	1.10	22.3	0.80	6.95	107	4.5	1.45

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches
(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.
(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Sample ID WG-37191-072009-013
Time 1535

MONITORING WELL RECORD FOR LOW-FLOW PURGING

CofC #
19127

Project Data:

Project Name: Buffalo China
Ref. No.: 37191

Date: 7-20-09
Personnel: DJT/SG

Monitoring Well Data:

Well No.: MW-17
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 10.08

Time	*Pumping Rate (mL/min)*	*Depth to Water (ft)*	*Drawdown from Initial Water Level[3] (ft)*	*pH*	*Temperature °C*	*Conductivity (mS/cm)*	*ORP (mV)*	*DO (mg/L)*	*Turbidity (NTU)*	*Volume Purged, V_p (mL)*	*No. of Well Screen Volumes Purged[4]*
1523	80	10.23	0.15	7.81	17.11	1.96	170	1.71	~~8~~ 3.05 (DJT)		
1528		10.34	0.26	7.91	16.22	1.93	186	1.08	1.25		
1533				7.90	15.95	1.93	196	0.81	0.98		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.
(2) The well screen volume will be based on a 5-foot screen length, V_s=p*(D/2)²*(5*12)*(2.54)³
(3) The drawdown from the initial water level should not exceed 0.3 ft.
(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

Start Purge @ 1519

Inst. Control #5
W/L Meter NF05034
MP-20 Rental
Turb meter Rental

[signature]

MONITORING WELL RECORD FOR LOW-FLOW PURGING

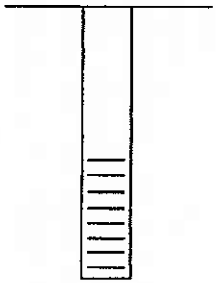
Project Data:

Project Name: Buffalo China
Ref. No.: 37191
Date: 1/13/09
Personnel: J. Williams

Monitoring Well Data:

Well No.: MW-18
Vapour PID (ppm): NM
Measurement Point: T.O.C.
Constructed Well Depth (m/ft): 10.2 ft
Measured Well Depth (m/ft): 10.2 ft.
Depth of Sediment (m/ft): 0 ft.

Saturated Screen Length (m/ft): 5.0 ft.
Depth to Pump Intake (m/ft)[1]: 8.2 ft.
Well Diameter, D (cm/in): 2.0 in.
Well Screen Volume, V_s (L)[2]: 0.8 gallons
Initial Depth to Water (m/ft): 4.49 ft.



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3][4] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[5]	±10 %	±10 %	±0.1 Units	±10 mV		
1235	100	5.32	0.83	8.7	0.281	271	3.04	6.73	NA	0.5	0.2
1240	75	5.53	1.04	8.7	0.305	65.1	2.27	6.75	NA	0.88	0.3
1245	75	5.68	1.19	8.7	0.326	50.4	1.71	6.75	NA	1.3	0.4
1250	75	5.79	1.30	8.6	0.358	48.2	1.47	6.75	NA	1.6	0.5
1255	75	5.82	1.33	8.4	0.391	56.9	1.24	6.77	NA	2.0	0.6
1300	75	5.97	1.48	8.3	0.452	42.8	1.27	6.78	NA	2.4	0.8
1305	75	5.99	1.50	8.5	0.516	37.3	1.09	6.79	NA	2.8	0.9
1310	75	6.01	1.52	8.5	0.579	35.7	0.94	6.80	NA	3.2	1.0

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches
(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.
(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

SAMPLE ID: WG-37191-072209-042
SAMPLE TIME: 1310

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: FORMER BUFFALO CHINA
Ref. No.: 37191
Date: 7/22/09
Personnel: DJT/SG

Monitoring Well Data:

Well No.: MW-18
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):
Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 6.15

C of C #

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1248	100	6.51	0.36	7.26	14.85	1.07	-52	1.76	8.85		
1253	100	6.67	0.52	7.22	14.70	1.066	-50	1.40	10.2		
1258		6.77	0.62	7.20	14.72	1.066	-50	1.42	5.30		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

START PURGE @ 1242

INST. CONTROL #3
MP20 - RENTAL
TURBIDIMETER - RENTAL
W/L METER - NFO4421

Shawn Gardner

SAMPLE ID: WG-37191-072209-041
SAMPLE TIME: 1225

MS/MSD

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: FORMER BUFFALO CHINA
Ref. No.: 37191
Date: 7/22/09
Personnel: DJT/SG

Monitoring Well Data:

Well No.: MW18A
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):
Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 7.605

COC #

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1208	200	7.93	0.28	7.07	12.74	2.19	-170	1.30	36.4		
1213	200	7.97	0.32	7.06	12.63	2.19	-180	1.06	37.3		
1218	200	8.00	0.35	7.05	12.51	2.19	-188	0.98	31.7		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

START PURGE @ 1200

INST. CONTROL #8
MP20 - RENTAL
TURBIDIMETER: RENTAL
W/L METER NF04421

Sample ID WG-37191-072009-002
Time 1140

CofC #
19127

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Buffalo China
Ref. No.: 37191
Date: 7.20.09
Personnel: SG/DJT

Monitoring Well Data:

Well No.: MW-19
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):
Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 2.60

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1121	100	2.97	0.37	6.88	21.10	1.92	280	5.86	1.58		
1126	90	3.09	0.49	7.02	21.39	1.90	267	5.27	1.73		
1131		3.29	0.69	7.19	21.23	1.92	269	1.01	1.04		
1136				7.24	20.87	1.92	271	0.78	1.43		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

Start Purge @ 1113

Inst Control #'s
w/L Meter NF05034
MP 20 Rental
Turb. Meter Rental

David J Ryan

SAMPLE ID: WG-37191-072009-001
SAMPLE TIME 1140

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: FORMER BUFFALO CHINA
Ref. No.: 37191
Date: 7/20/09
Personnel: DJT/SG

C of C # 19127

Monitoring Well Data:

Well No.: MW-19A
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):
Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 10.00

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1110	440	10.00	0.00	6.99	14.19	1.72	-30	2.32	80.7		
1115	440	10.00	0.00	7.12	13.73	1.73	-72	1.36	65.5		
1120	440	10.00	0.00	7.14	13.73	1.74	-80	1.17	45.5		
1125	440	10.00	0.00	7.14	13.63	1.74	-80	1.07	38.1		
1130	440	10.00	0.00	7.13	13.62	1.73	-78	1.04	40.0		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs. START PURGE @ 1103

INST CONTROL #S
MP-20 - RENTAL
TURBIDIMETER - RENTAL
W/L METER NF044421

Dave J Tyo

SAMPLE ID: WG-37191-072209-032
SAMPLE TIME: 0920

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: FORMER BUFFALO CHINA
Ref. No.: 37191
Date: 7/22/09
Personnel: DJT/SG

COFC #

Monitoring Well Data:

Well No.: MW-20
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):
Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 3.25

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
0902	100	3.61	0.36	7.05	17.83	2.81	-134	2.17	19.3		
0907	100	3.78	0.53	7.07	17.93	2.81	-150	1.88	12.2		
0912	100	3.98	0.73	7.08	18.03	2.83	-158	1.57	5.81		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

INST. CONTROL #S
MP-20 RENTAL
TURBIDIMETER - RENTAL
W/L METER - NFO 4421

START PURGE @ 0856

Shawn Maurer

Sample ID MW-37191-072209-031
Time 0910

MONITORING WELL RECORD FOR LOW-FLOW PURGING

CofC#

Project Data:

Project Name: Buffalo China
Ref. No.: 37191
Date: 7-22-09
Personnel: SG / DJT

Monitoring Well Data:

Well No.: MW-20A
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):
Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 3.60

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
0858		3.81	0.21	7.19	14.37	1.62	94	2.69	14.3		
0903				7.16	14.11	1.62	25	0.62	9.5		
0908	180	3.95	0.35	7.16	14.57	1.62	-12	0.55	8.56		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

Inst. Control #'s
W/L Meter NFO50034
Turbidimeter Rental
MP-20 Rental

Start Purge @ 0854

David J Tyson

SAMPLE ID: WG-37191-072109-016
SAMPLE TIME: 0940

DUP

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: FORMER BUFFALO CHINA
Ref. No.: 37191
Date: 7/21/09
Personnel: DJT/SG

Monitoring Well Data:

Well No.: MW-21A
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):
Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 7.14

CofC # 19104

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
0921	260	7.17	0.03	6.99	15.30	1.85	-95	3.53	106		
0926	260	7.17	0.03	6.99	15.16	1.83	-98	2.79	62.9		
0931	260	7.17	0.03	6.99	15.20	1.83	-98	2.40	43.1		
0936	260	7.17	0.03	6.99	15.28	1.83	-100	1.93	31.2		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

INST. CONTROL #S
MP-20 - RENTAL
TURBIDIMETER - RENTAL
W/L METER - NF044121

START PURGE @ 0915

* BLIND DUP: WG-37191-072109-017 TIME 0945

SAMPLE ID: WG-37191-072009-004
SAMPLE TIME: 1230

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: FORMER BUFFALO CHINA
Ref. No.: 37191
Date: 7/20/09
Personnel: DJT/SG

Monitoring Well Data:

Well No.: MW-22
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):
Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 4.28

COFC # 19127

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1211	90	5.25	0.97	6.98	15.73	1.82	-96	2.55	20.8		
1216	90	5.78	1.5	6.97	15.30	1.82	-105	1.72	16.8		
1221	90	6.12	1.84	6.97	15.22	1.82	-105	1.78	10.0		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

START PURGE @ 1204

INST CONTROL #S
MP-20 - RENTAL
TURBIDIMETER - RENTAL
W/L METER NF04421

David J Yon

Sample ID MG-37191-072004-003
Time 1230

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Buffalo China
Ref. No.: 37191
Date: 7-20-09
Personnel: SG/DJT

CofC # 1927

Monitoring Well Data:

Well No.: MW 22A
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):
Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 8.45

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1211	280	8.49	0.04	7.55	13.29	1.61	-100	2.43	>1000		
1216		8.49	0.04	7.88	12.91	1.61	-119	0.57	57.5		
1221	260	8.49	0.04	7.87	13.04	1.61	-129	0.51	67.5		
1226				7.86	12.90	1.61	-133	0.45	37.1		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

Start Purge @ 1208

Inst. Control #'s
w/L Meter NF050314
MP20 Rental
Turb. Meter Rental
Dave Lyon

SAMPLE ID: WG-37191-072009-007
SAMPLE TIME 1410

DUP

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: FORMER BUFFALO CHINA
Ref. No.: 37191
Date: 7/20/09
Personnel: DJT/SG

Monitoring Well Data:

Well No.: MW-23A
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):
Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 15.08

CofC # 19127

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1354	200	15.57	0.43	7.28	13.82	1.72	-240	2.19	32.0		
1359	200	15.61	0.53	7.32	13.56	1.71	-255	2.12	28.3		
1404	200	15.66	0.58	7.33	13.55	1.70	-271	3.90	22.7		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s=p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

INST. CONTROL #S
MP-20 - RENTAL
TURBIDIMETER - RENTAL
W/L METER - NF0AA21

START PURGE @ 1345

* BLIND DUP: WG-37191-072009-008 TIME: 1415

Dave J Tyan

SAMPLE ID: WG-37191-072004-010
SAMPLE TIME 1500

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: FORMER BUFFALO CHINA
Ref. No.: 37191
Date: 7/20/09
Personnel: DJT/SG

Monitoring Well Data:

Well No.: MW-24A
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):
Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 7.72

COFC # 19127

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1440	240	7.87	0.15	6.88	15.54	2.61	-165	2.70	19.3		
1445	240	7.90	0.18	6.85	15.42	2.59	-165	2.31	25.9		
1450	240	7.90	0.18	6.84	15.38	2.57	-170	2.24	28.1		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

START PURGE @ 1435

INST. CONTROL #S
MP-20 - RENTAL
TURBIDIMETER - RENTAL
W/L METER NF04421

David J Tyler

MS/MSD

Sample ID WG-37191-072009-004
Time 1420

MONITORING WELL RECORD FOR LOW-FLOW PURGING

CofC# 1.9127

Project Data:

Project Name: Buffalo China
Ref. No.: 37191

Date: 7-20-09
Personnel: SG/DJT

Monitoring Well Data:

Well No.: MW-25A
Measurement Point:
Constructed Well Depth (ft):
Measured Well Depth (ft):
Depth of Sediment (ft):

Screen Length (ft):
Depth to Pump Intake (ft)[1]:
Well Diameter, D (in):
Well Screen Volume, V_s (mL)[2]:
Initial Depth to Water (ft): 7.94

Time	Pumping Rate (mL/min)	Depth to Water (ft)	Drawdown from Initial Water Level[3] (ft)	pH	Temperature °C	Conductivity (mS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTU)	Volume Purged, V_p (mL)	No. of Well Screen Volumes Purged[4]
1409	200	7.94	0.00	8.78	21.37	0.848	-137	1.02	28.8		
1414		7.94	0.00	7.89	18.27	1.006	-82	0.54	33		
1419	200	7.94	0.00	7.89	17.93	1.036	-63	0.40	26.5		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 2 ft above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 5-foot screen length, $V_s = p*(D/2)^2*(5*12)*(2.54)^3$

(3) The drawdown from the initial water level should not exceed 0.3 ft.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stablization criteria and appear to be stablizing), No. of Well Screen Volumes Purged= Vp/Vs.

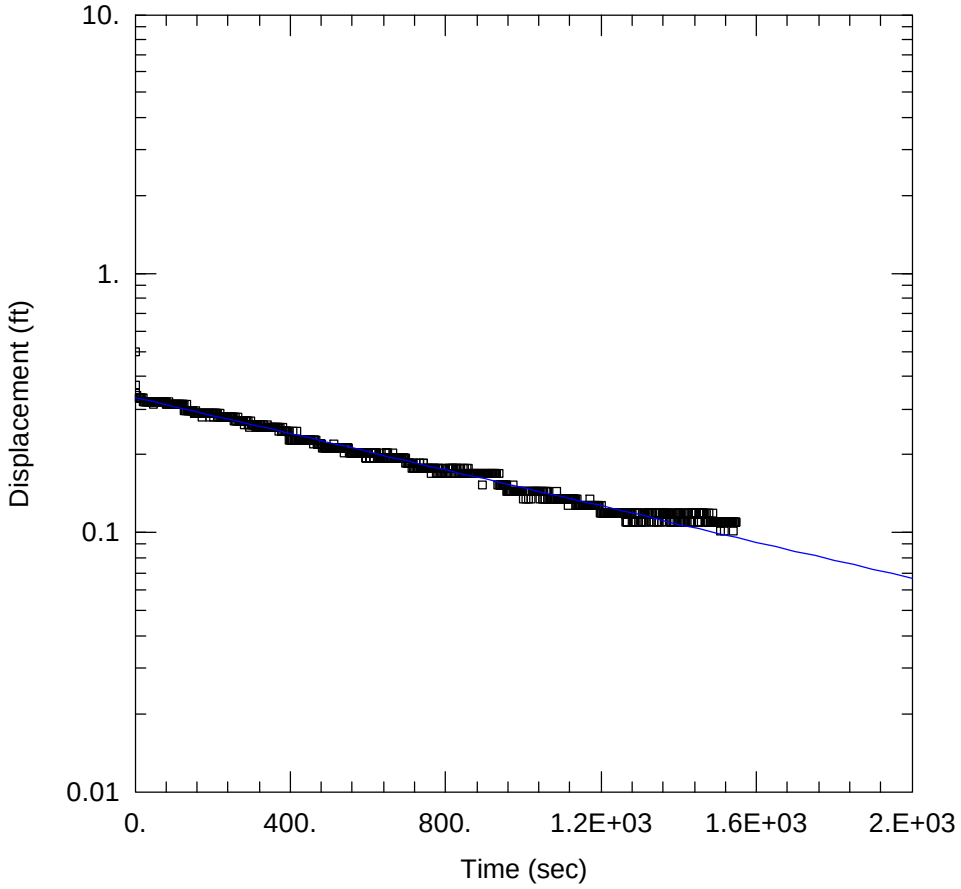
Start Purge @ 1406

Inst. Control #'s
W/L Meter NFO5034
MP-20 Rental
Turb Meter Rental

Dan J Lyon

APPENDIX E

HYDRAULIC CONDUCTIVITY TESTING RESULTS



MW-4 FALLING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW-4_1.aqt
Date: 10/06/09 Time: 10:24:45

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-4
Test Date: February 9, 2009

AQUIFER DATA

Saturated Thickness: 12. ft Anisotropy Ratio (Kz/Kr): 1.

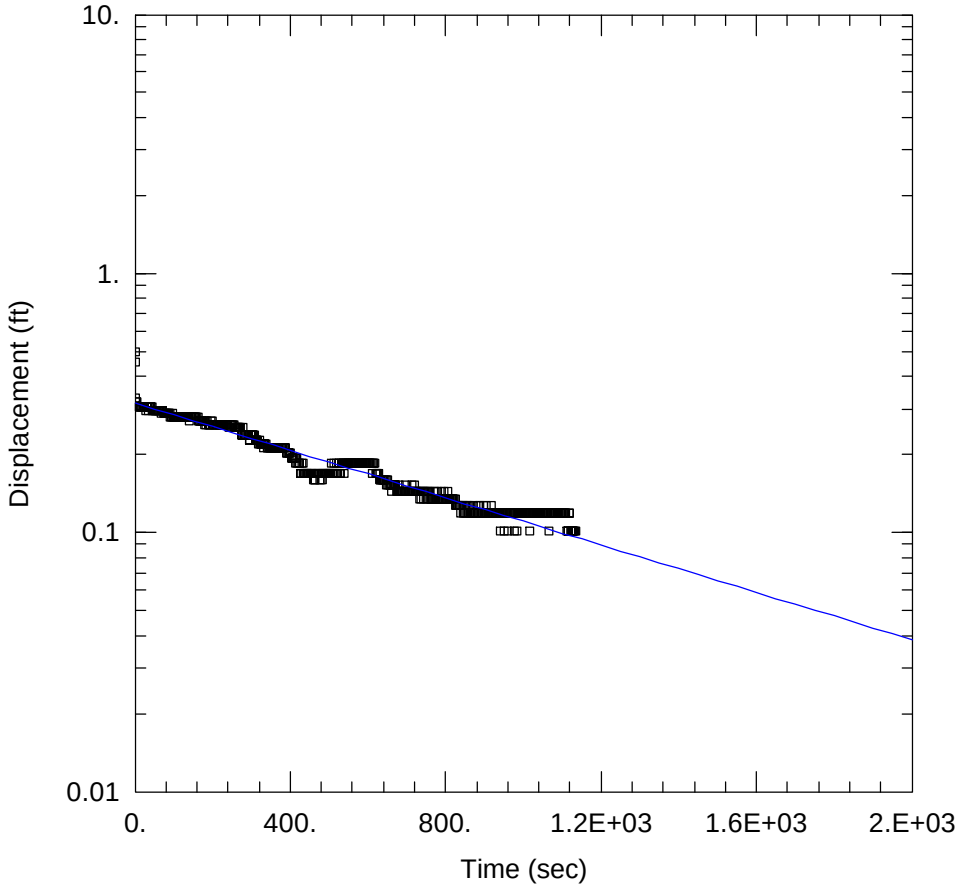
WELL DATA (MW-4)

Initial Displacement: 0.5 ft Casing Radius: 0.083 ft
Wellbore Radius: 0.33 ft Well Skin Radius: 0.33 ft
Screen Length: 5. ft Total Well Penetration Depth: 4.96 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 2.813E-05 cm/sec y0 = 0.3325 ft



MW-4 RISING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW-4_2.aqt
Date: 10/06/09 Time: 10:25:24

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-4
Test Date: February 9, 2009

AQUIFER DATA

Saturated Thickness: 12. ft Anisotropy Ratio (Kz/Kr): 1.

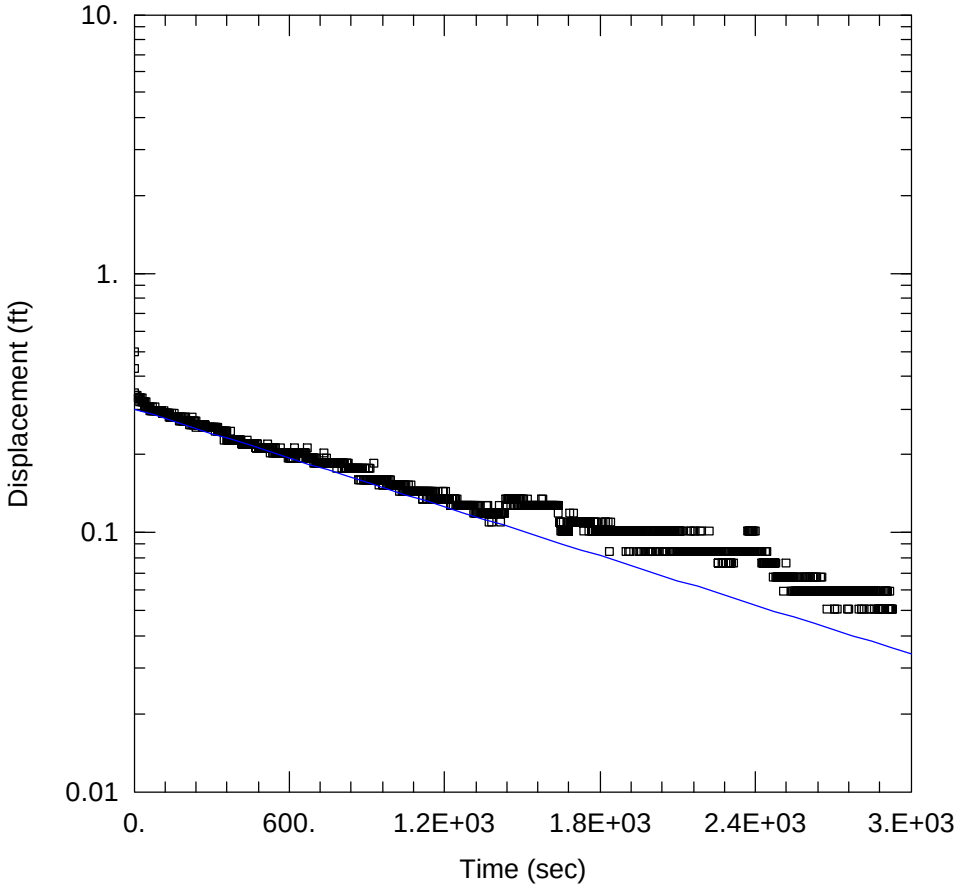
WELL DATA (MW-4)

Initial Displacement: 0.5 ft Casing Radius: 0.083 ft
Wellbore Radius: 0.33 ft Well Skin Radius: 0.33 ft
Screen Length: 5. ft Total Well Penetration Depth: 4.96 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 3.678E-05 cm/sec y0 = 0.3162 ft



MW-4 FALLING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW-4_3.aqt
Date: 10/06/09 Time: 10:25:10

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-4
Test Date: February 9, 2009

AQUIFER DATA

Saturated Thickness: 12. ft Anisotropy Ratio (Kz/Kr): 1.

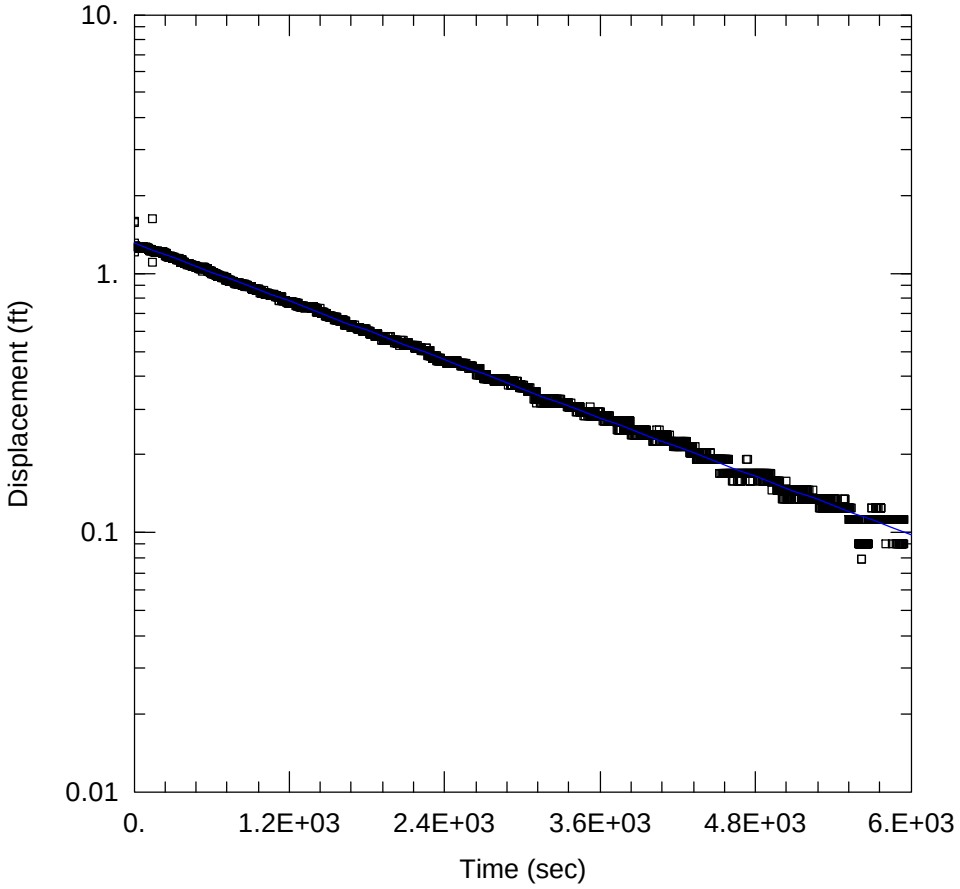
WELL DATA (MW-4)

Initial Displacement: 0.5 ft Casing Radius: 0.083 ft
Wellbore Radius: 0.33 ft Well Skin Radius: 0.33 ft
Screen Length: 5. ft Total Well Penetration Depth: 4.96 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 2.54E-05 cm/sec y0 = 0.3004 ft



MW-5 FALLING HEAD TEST #1

Data Set: C:\Buffalo China\MW5_1.aqt
Date: 10/06/09 Time: 12:25:26

PROJECT INFORMATION

Company: CRA
Client: Hodgson-Russ
Project: 37191
Test Location: Former Buffalo China Site
Test Well: MW-5
Test Date: February 13, 2009

AQUIFER DATA

Saturated Thickness: 8.1 ft Anisotropy Ratio (Kz/Kr): 1.

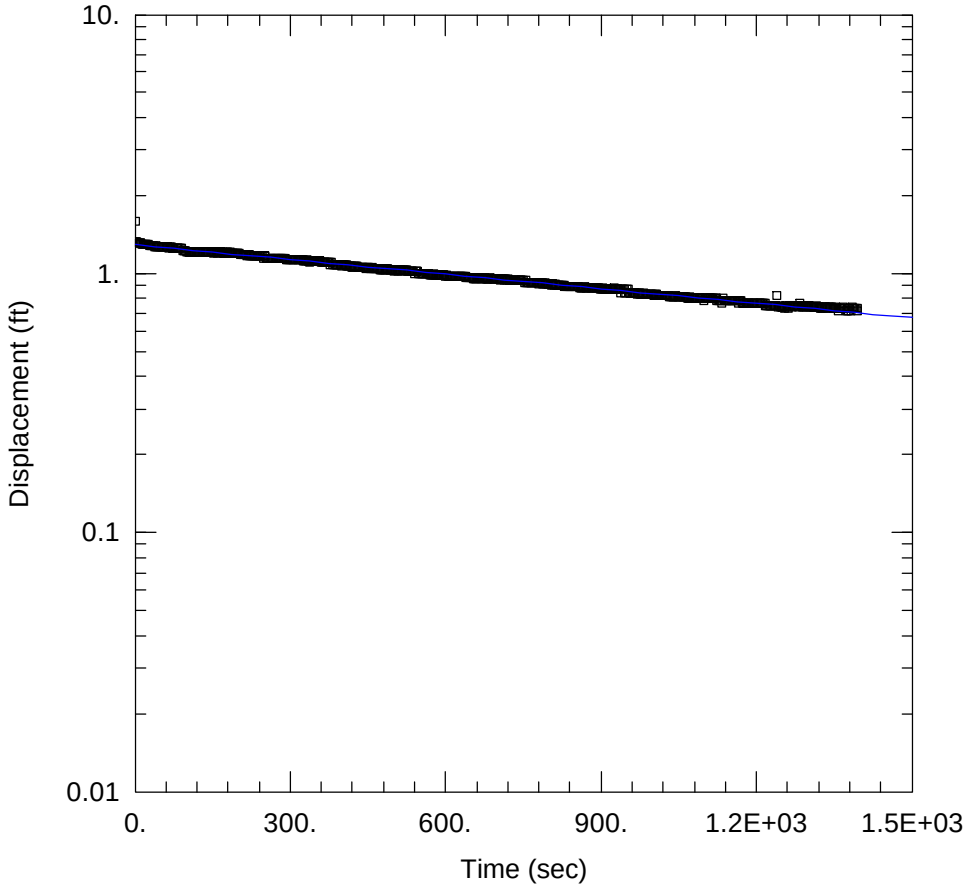
WELL DATA (MW-5)

Initial Displacement: 1.6 ft
Wellbore Radius: 0.33 ft
Screen Length: 5. ft
Casing Radius: 0.083 ft
Well Skin Radius: 0.33 ft
Total Well Penetration Depth: 8.1 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 2.05E-05 cm/sec y0 = 1.313 ft



MW-5 RISING HEAD TEST #1

Data Set: C:\Buffalo China\MW5_2.aqt
Date: 10/06/09 Time: 12:27:43

PROJECT INFORMATION

Company: CRA
Client: Hodgson-Russ
Project: 37191
Test Location: Former Buffalo China Site
Test Well: MW-5
Test Date: February 13, 2009

AQUIFER DATA

Saturated Thickness: 8.1 ft Anisotropy Ratio (Kz/Kr): 1.

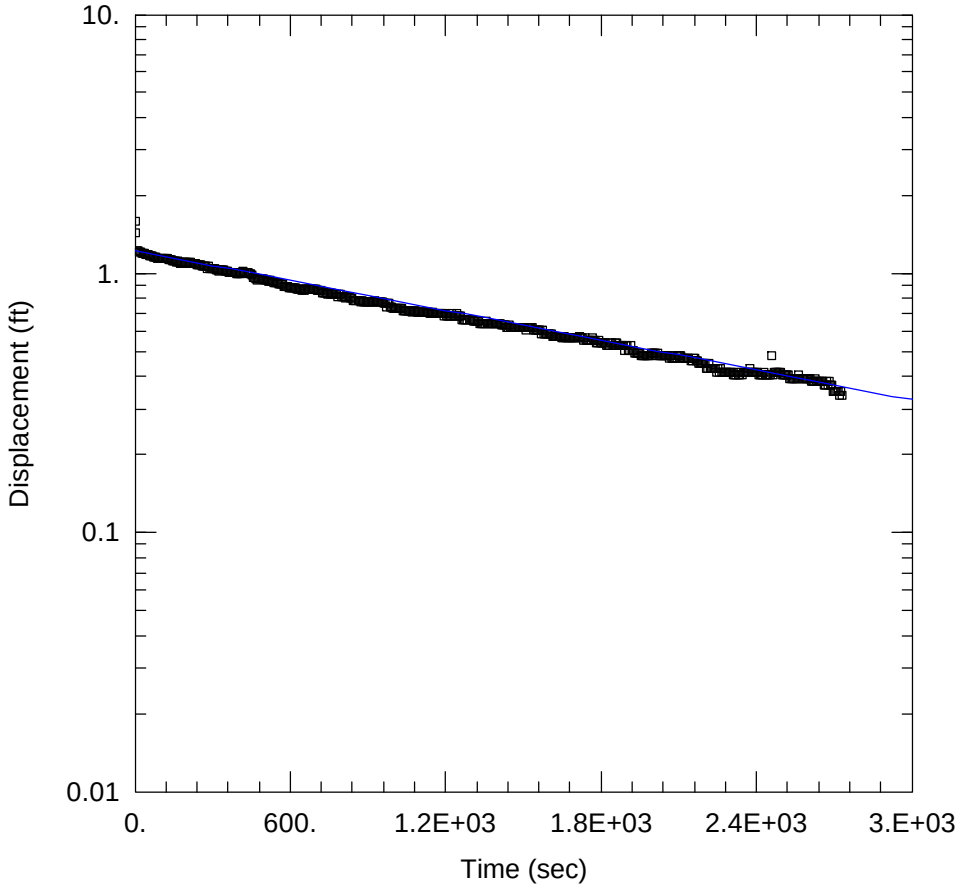
WELL DATA (MW-5)

Initial Displacement: 1.6 ft Casing Radius: 0.083 ft
Wellbore Radius: 0.33 ft Well Skin Radius: 0.33 ft
Screen Length: 5. ft Total Well Penetration Depth: 8.1 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 2.048E-05 cm/sec y0 = 1.29 ft



MW-5 FALLING HEAD TEST #2

Data Set: C:\Buffalo China\MW5_3.aqt
Date: 10/06/09 Time: 12:29:55

PROJECT INFORMATION

Company: CRA
Client: Hodgson-Russ
Project: 37191
Test Location: Former Buffalo China Site
Test Well: MW-5
Test Date: February 16, 2009

AQUIFER DATA

Saturated Thickness: 8.1 ft Anisotropy Ratio (Kz/Kr): 1.

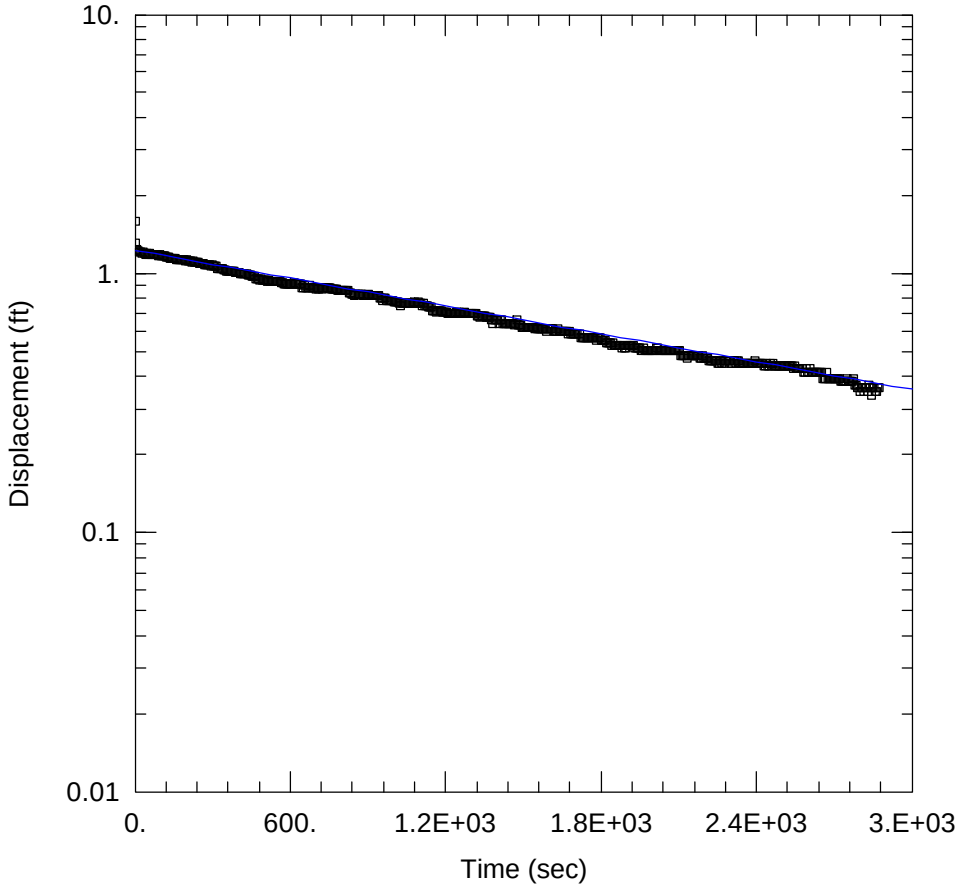
WELL DATA (MW-5)

Initial Displacement: 1.6 ft Casing Radius: 0.083 ft
Wellbore Radius: 0.33 ft Well Skin Radius: 0.33 ft
Screen Length: 5. ft Total Well Penetration Depth: 8.1 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 2.096E-05 cm/sec y0 = 1.227 ft



MW-5 RISING HEAD TEST #2

Data Set: C:\Buffalo China\MW5_4.aqt
Date: 10/06/09 Time: 12:31:02

PROJECT INFORMATION

Company: CRA
Client: Hodgson-Russ
Project: 37191
Test Location: Former Buffalo China Site
Test Well: MW-5
Test Date: February 16, 2009

AQUIFER DATA

Saturated Thickness: 8.1 ft Anisotropy Ratio (Kz/Kr): 1.

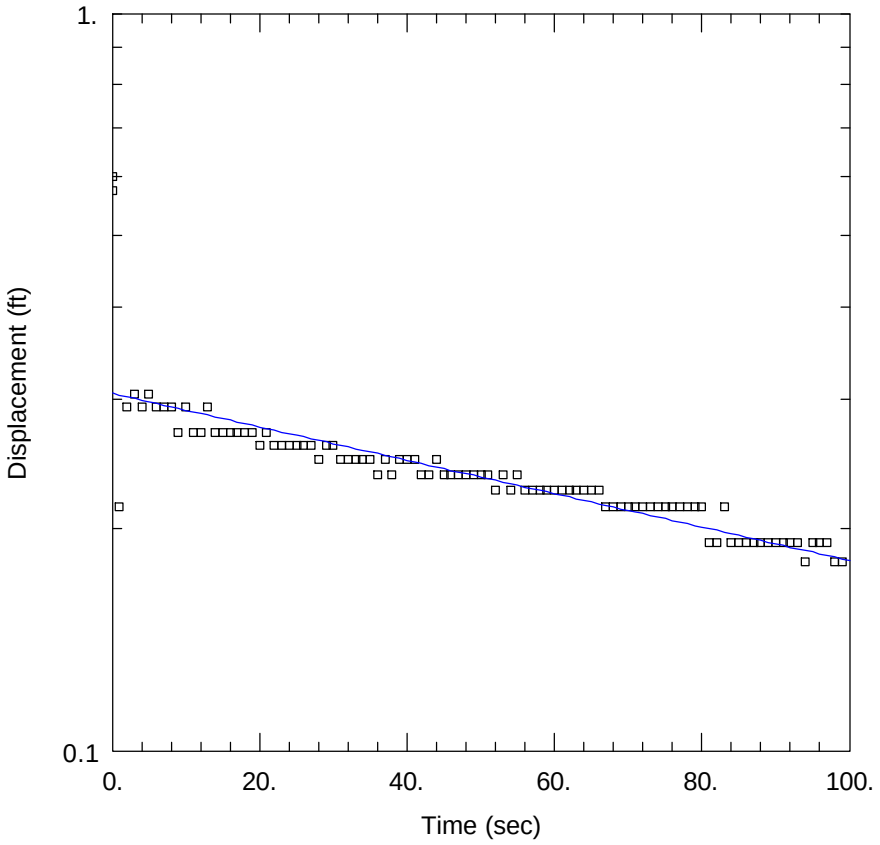
WELL DATA (MW-5)

Initial Displacement: 1.6 ft Casing Radius: 0.083 ft
Wellbore Radius: 0.33 ft Well Skin Radius: 0.33 ft
Screen Length: 5. ft Total Well Penetration Depth: 8.1 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 1.956E-05 cm/sec y0 = 1.23 ft



MW-6A FALLING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW6A_A.aqt
Date: 07/09/09 Time: 09:28:18

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-6A
Test Date: June 29, 2009

AQUIFER DATA

Saturated Thickness: 17.4 ft Anisotropy Ratio (Kz/Kr): 1.

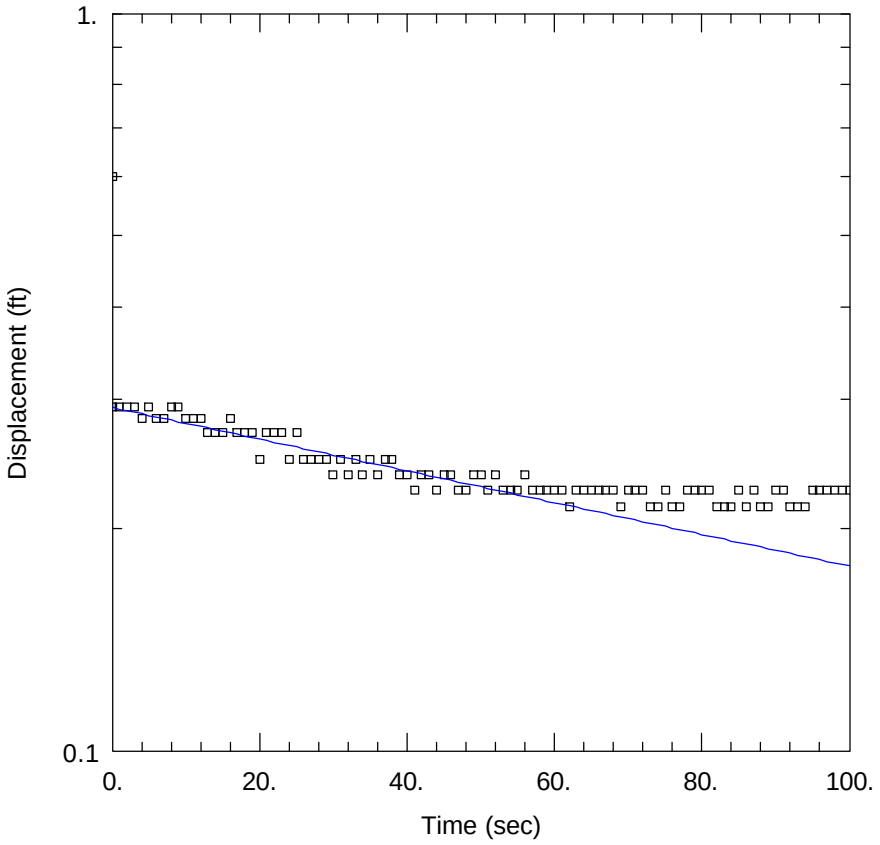
WELL DATA (MW-6A)

Initial Displacement: 0.6 ft
Total Well Penetration Depth: 17.4 ft
Casing Radius: 0.167 ft
Static Water Column Height: 17.4 ft
Screen Length: 9.3 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.0008286 cm/sec
y0 = 0.3051 ft



MW-6A RISING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW6A_B.aqt
Date: 07/09/09 Time: 09:30:28

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-6A
Test Date: June 29, 2009

AQUIFER DATA

Saturated Thickness: 17.4 ft Anisotropy Ratio (Kz/Kr): 1.

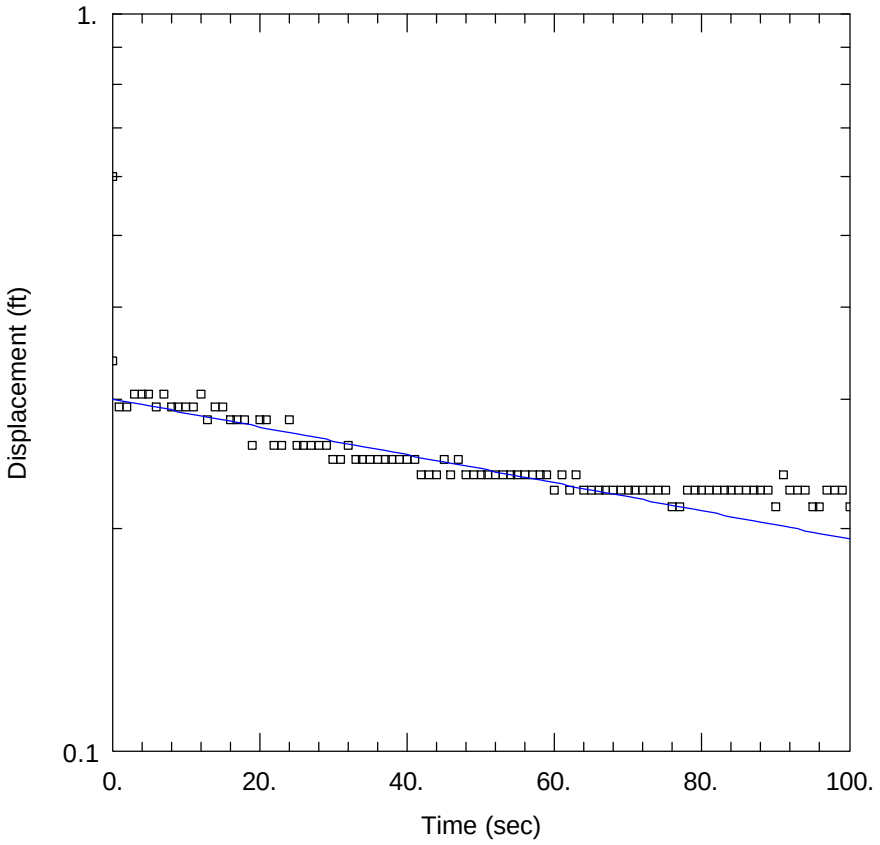
WELL DATA (MW-6A)

Initial Displacement: 0.6 ft
Total Well Penetration Depth: 17.4 ft
Casing Radius: 0.167 ft
Static Water Column Height: 17.4 ft
Screen Length: 9.3 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.0007872 cm/sec
y0 = 0.2921 ft



MW-6A FALLING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW6A_C.aqt
Date: 07/09/09 Time: 09:32:10

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-6A
Test Date: June 29, 2009

AQUIFER DATA

Saturated Thickness: 17.4 ft Anisotropy Ratio (Kz/Kr): 1.

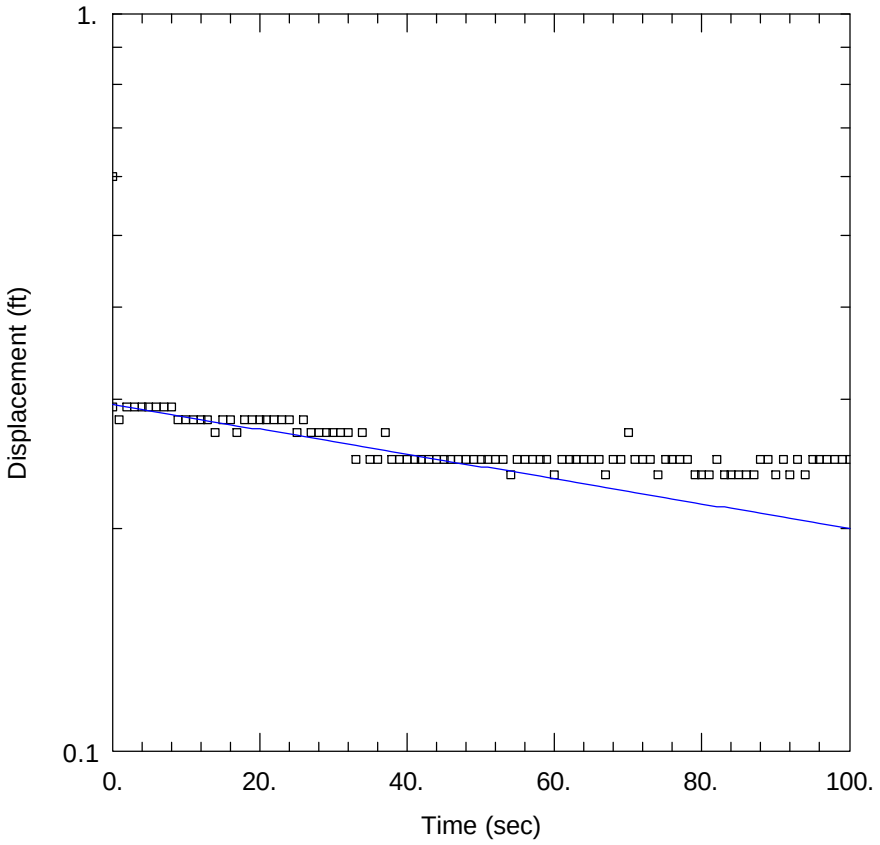
WELL DATA (MW-6A)

Initial Displacement: 0.6 ft
Total Well Penetration Depth: 17.4 ft
Casing Radius: 0.167 ft
Static Water Column Height: 17.4 ft
Screen Length: 9.3 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.0006947 cm/sec
y0 = 0.3 ft



MW-6A RISING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW6A_D.aqt
Date: 07/09/09 Time: 09:34:32

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-6A
Test Date: June 29, 2009

AQUIFER DATA

Saturated Thickness: 17.4 ft Anisotropy Ratio (Kz/Kr): 1.

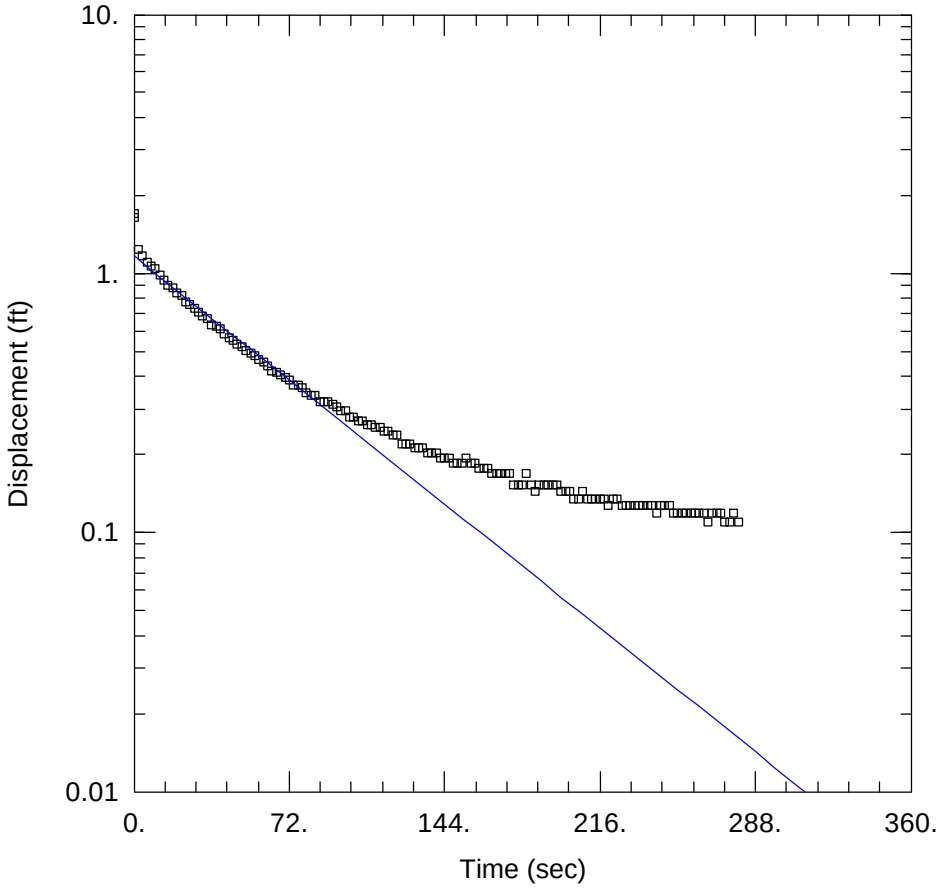
WELL DATA (MW-6A)

Initial Displacement: 0.6 ft
Total Well Penetration Depth: 17.4 ft
Casing Radius: 0.167 ft
Static Water Column Height: 17.4 ft
Screen Length: 9.3 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.0006151 cm/sec
y0 = 0.2947 ft



MW-7 FALLING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW-7_1.aqt
Date: 10/06/09 Time: 10:27:37

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-7
Test Date: February 3, 2009

AQUIFER DATA

Saturated Thickness: 12. ft Anisotropy Ratio (Kz/Kr): 1.

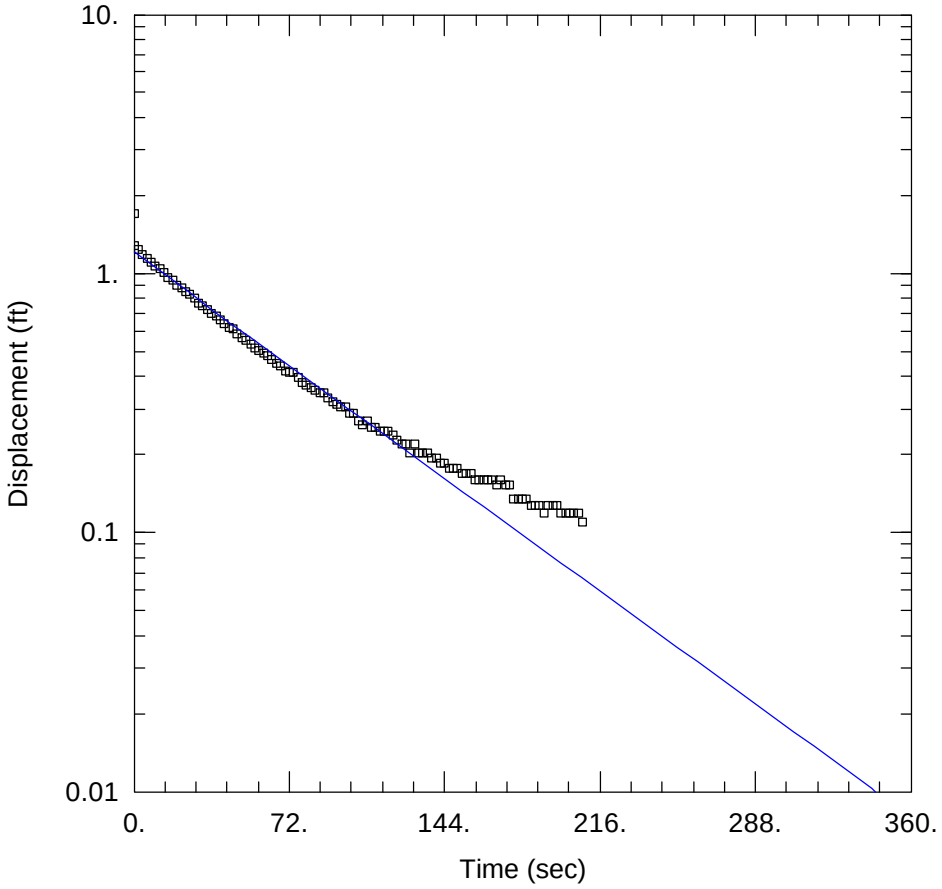
WELL DATA (MW-7)

Initial Displacement: 1.7 ft Casing Radius: 0.083 ft
Wellbore Radius: 0.33 ft Well Skin Radius: 0.33 ft
Screen Length: 5. ft Total Well Penetration Depth: 5.49 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0005496 cm/sec y0 = 1.165 ft



MW-7 RISING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW-7_2.aqt
Date: 10/06/09 Time: 10:27:50

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-7
Test Date: February 3, 2009

AQUIFER DATA

Saturated Thickness: 12. ft Anisotropy Ratio (Kz/Kr): 1.

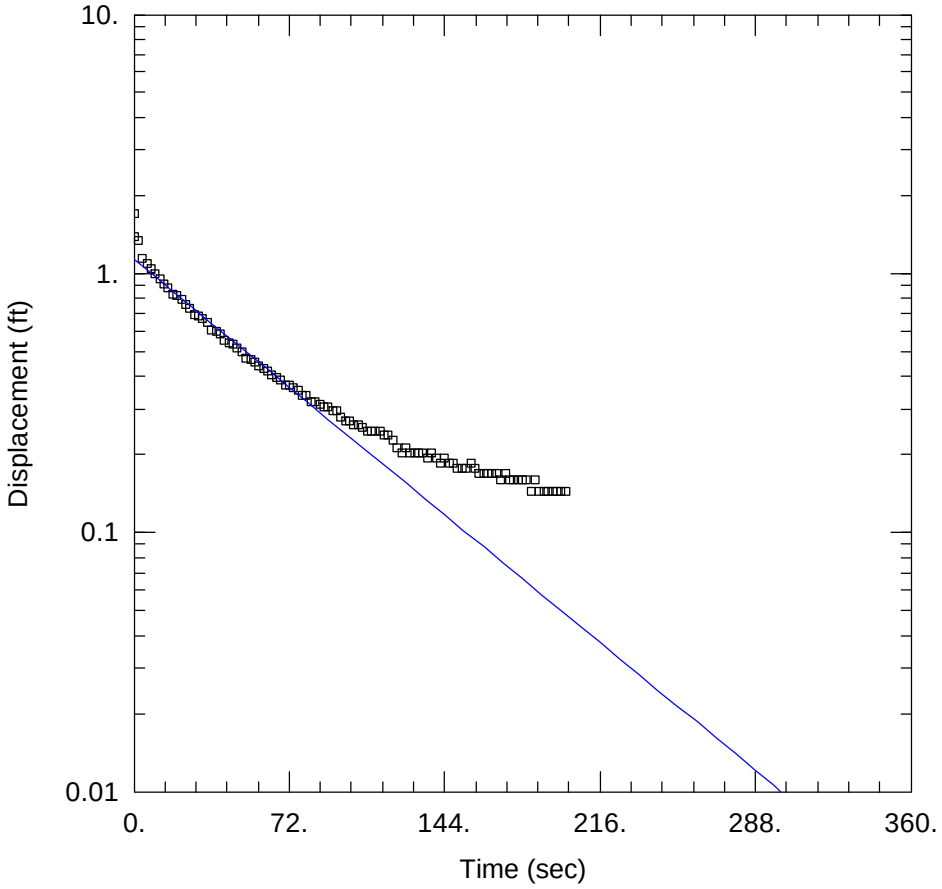
WELL DATA (MW-7)

Initial Displacement: 1.7 ft
Wellbore Radius: 0.33 ft
Screen Length: 5. ft
Casing Radius: 0.083 ft
Well Skin Radius: 0.33 ft
Total Well Penetration Depth: 5.49 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0005009 cm/sec y0 = 1.205 ft



MW-7 FALLING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW-7_3.aqt
Date: 10/06/09 Time: 10:28:02

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-7
Test Date: February 3, 2009

AQUIFER DATA

Saturated Thickness: 12. ft Anisotropy Ratio (Kz/Kr): 1.

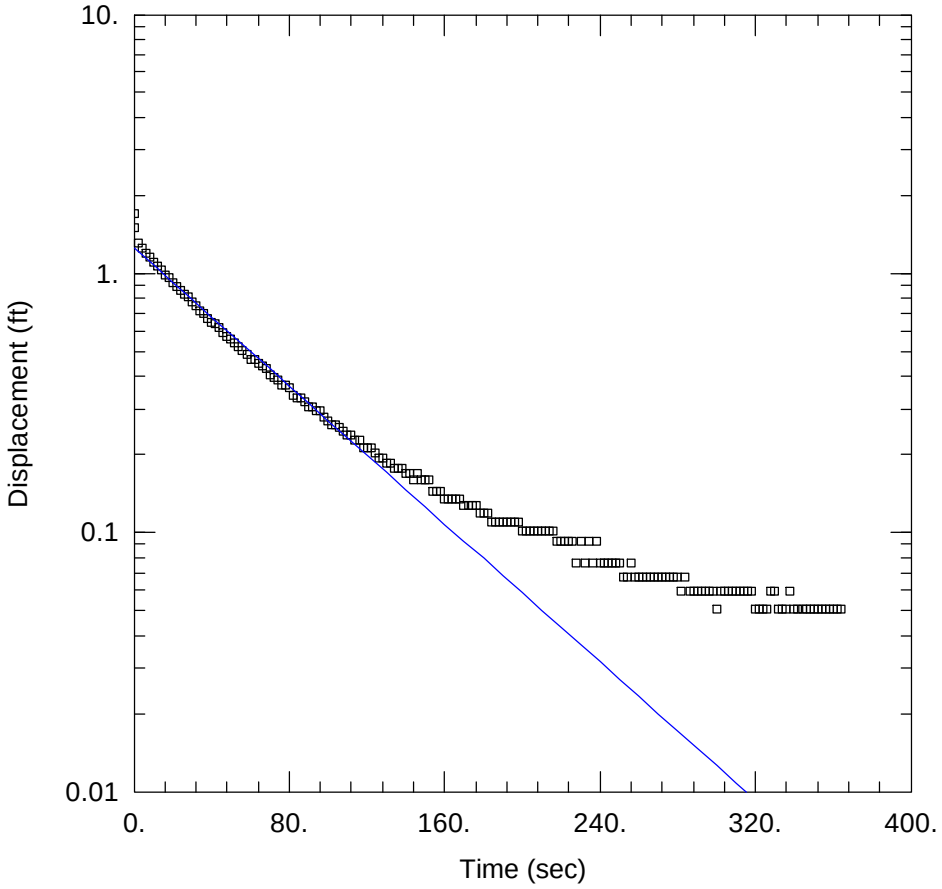
WELL DATA (MW-7)

Initial Displacement: 1.7 ft
Wellbore Radius: 0.33 ft
Screen Length: 5. ft
Casing Radius: 0.083 ft
Well Skin Radius: 0.33 ft
Total Well Penetration Depth: 5.49 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0005665 cm/sec y0 = 1.132 ft



MW-7 RISING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW-7_4.aqt
Date: 10/06/09 Time: 10:28:19

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-7
Test Date: February 3, 2009

AQUIFER DATA

Saturated Thickness: 12. ft Anisotropy Ratio (Kz/Kr): 1.

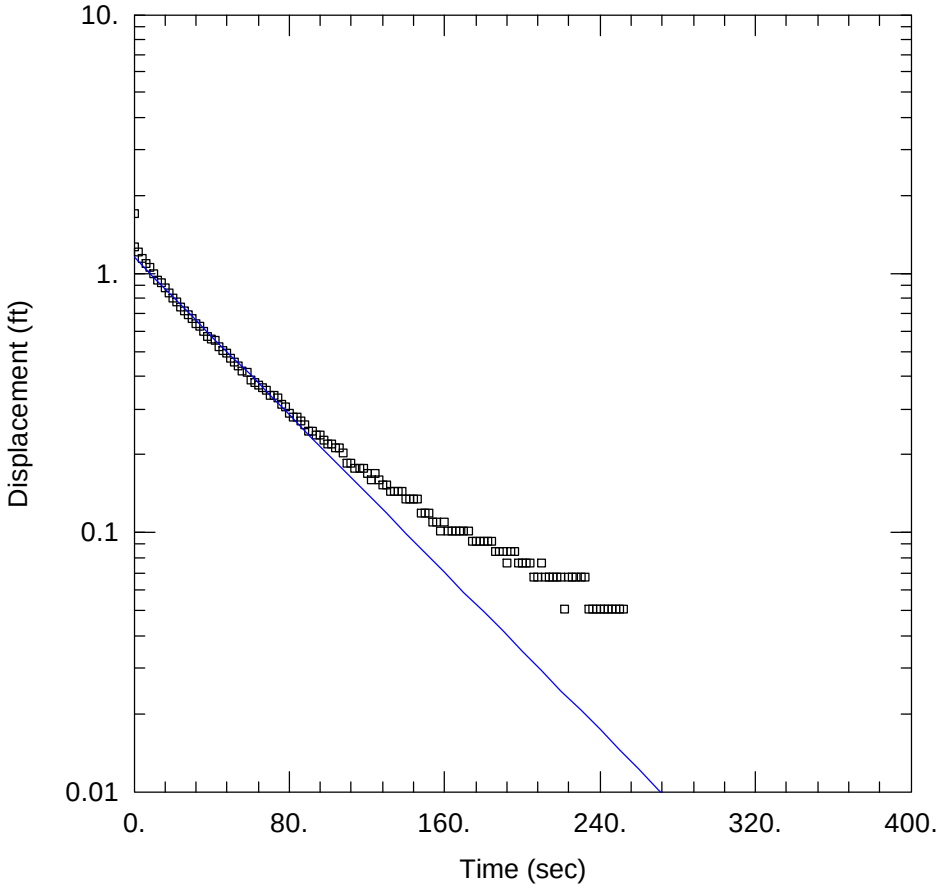
WELL DATA (MW-7)

Initial Displacement: 1.7 ft
Wellbore Radius: 0.33 ft
Screen Length: 5. ft
Casing Radius: 0.083 ft
Well Skin Radius: 0.33 ft
Total Well Penetration Depth: 5.49 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0005512 cm/sec y0 = 1.255 ft



MW-7 FALLING HEAD SLUG TEST #3

Data Set: C:\Buffalo China\MW-7_5.aqt
Date: 10/06/09 Time: 10:28:35

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-7
Test Date: February 3, 2009

AQUIFER DATA

Saturated Thickness: 12. ft Anisotropy Ratio (Kz/Kr): 1.

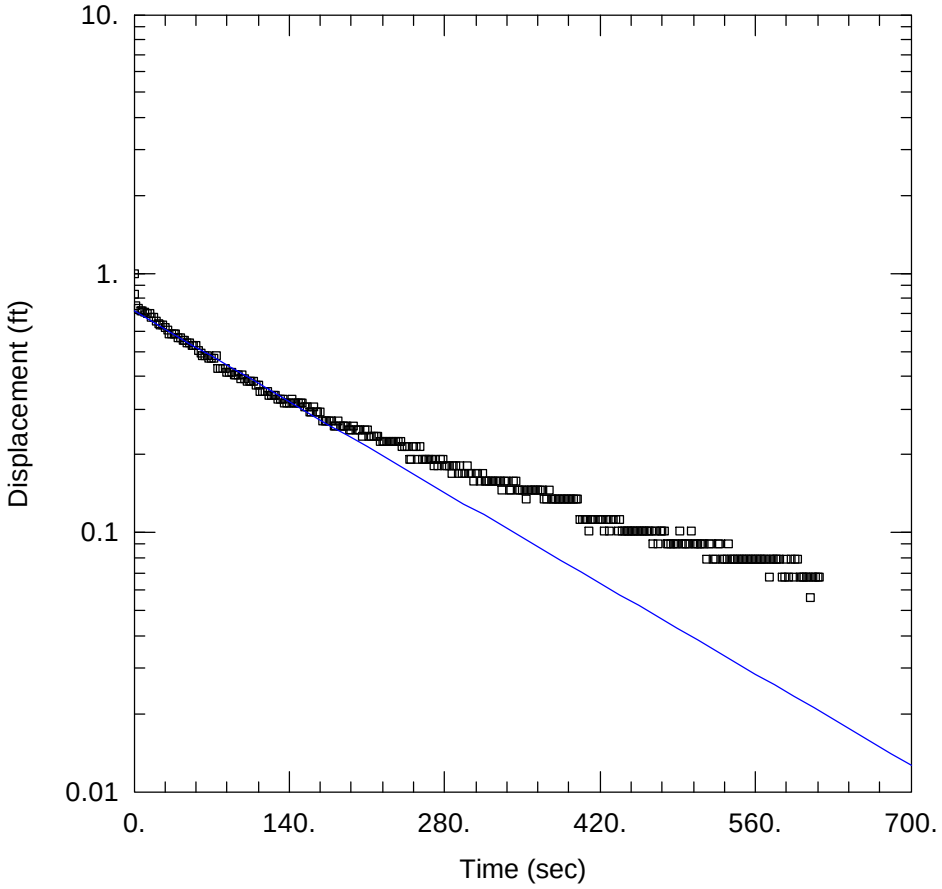
WELL DATA (MW-7)

Initial Displacement: 1.7 ft
Wellbore Radius: 0.33 ft
Screen Length: 5. ft
Casing Radius: 0.083 ft
Well Skin Radius: 0.33 ft
Total Well Penetration Depth: 5.49 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0006292 cm/sec y0 = 1.155 ft



MW-7A FALLING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW-7A_1.aqt
Date: 10/06/09 Time: 10:30:15

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-7A
Test Date: February 3, 2009

AQUIFER DATA

Saturated Thickness: 15. ft Anisotropy Ratio (Kz/Kr): 1.

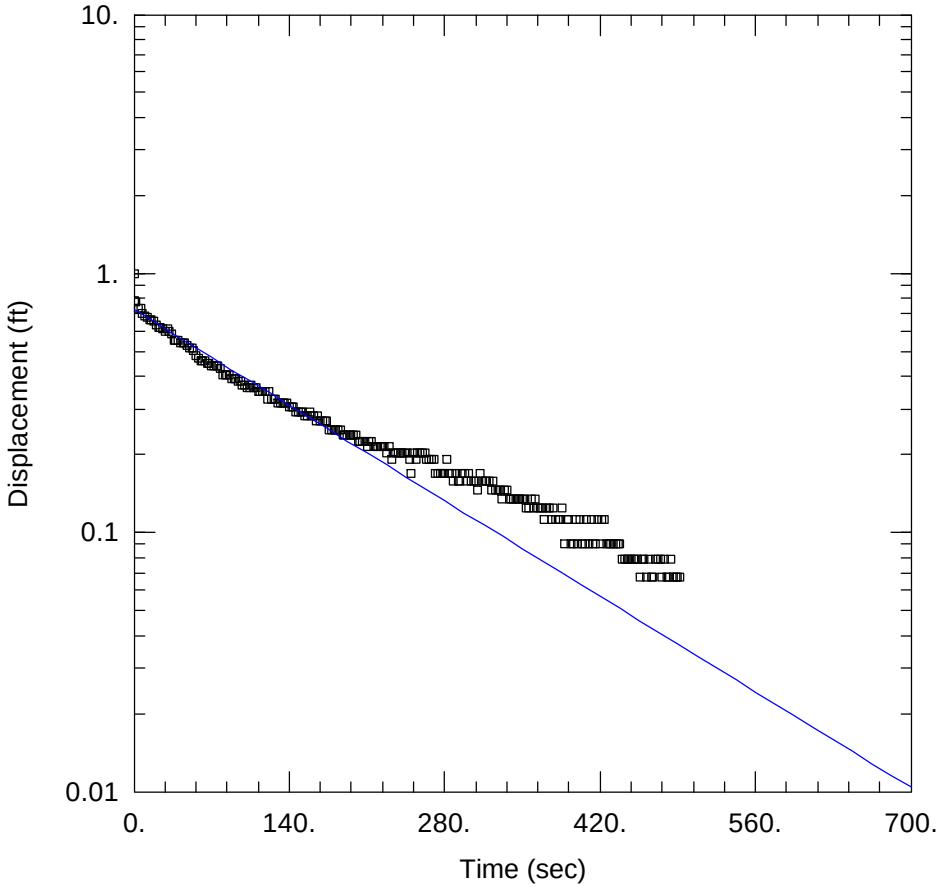
WELL DATA (MW-7A)

Initial Displacement: 1. ft
Wellbore Radius: 0.167 ft
Screen Length: 5. ft
Casing Radius: 0.167 ft
Well Skin Radius: 0.167 ft
Total Well Penetration Depth: 11.8 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.001293 cm/sec y0 = 0.7182 ft



MW-7A RISING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW-7A_2.aqt
Date: 10/06/09 Time: 10:30:02

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-7A
Test Date: February 3, 2009

AQUIFER DATA

Saturated Thickness: 15. ft Anisotropy Ratio (Kz/Kr): 1.

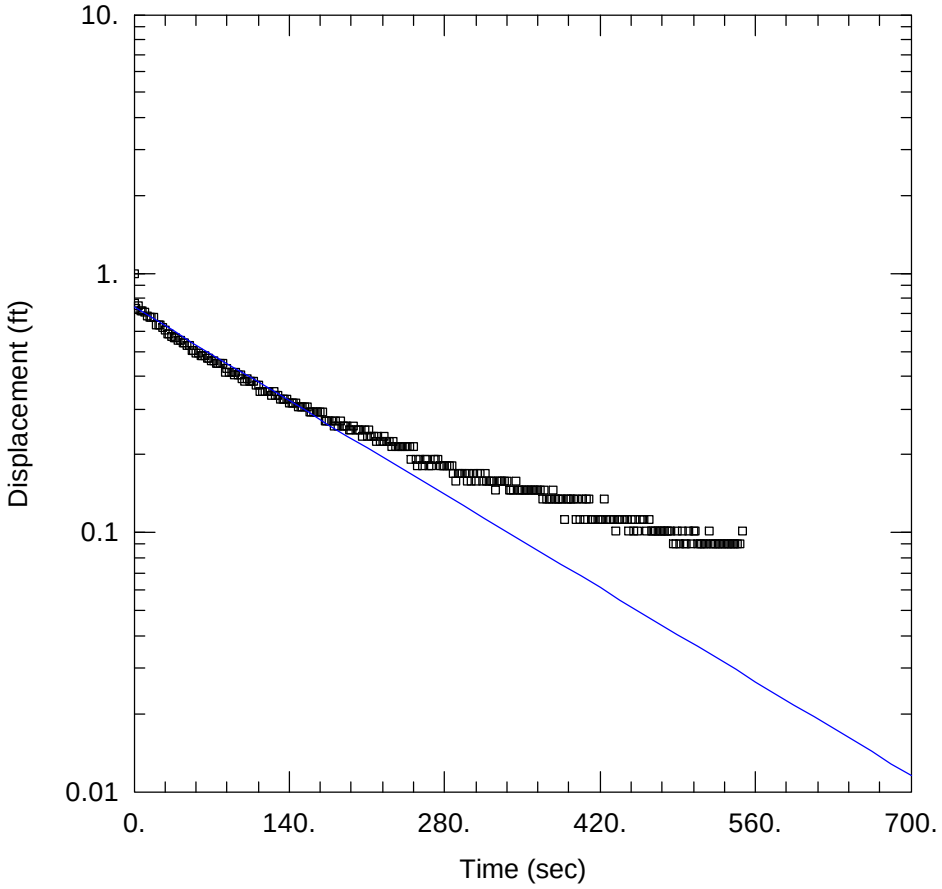
WELL DATA (MW-7A)

Initial Displacement: 1. ft
Wellbore Radius: 0.167 ft
Screen Length: 5. ft
Casing Radius: 0.167 ft
Well Skin Radius: 0.167 ft
Total Well Penetration Depth: 11.8 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.001362 cm/sec y0 = 0.727 ft



MW-7A FALLING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW-7A_3.aqt
Date: 10/06/09 Time: 10:29:45

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-7A
Test Date: February 3, 2009

AQUIFER DATA

Saturated Thickness: 15. ft Anisotropy Ratio (Kz/Kr): 1.

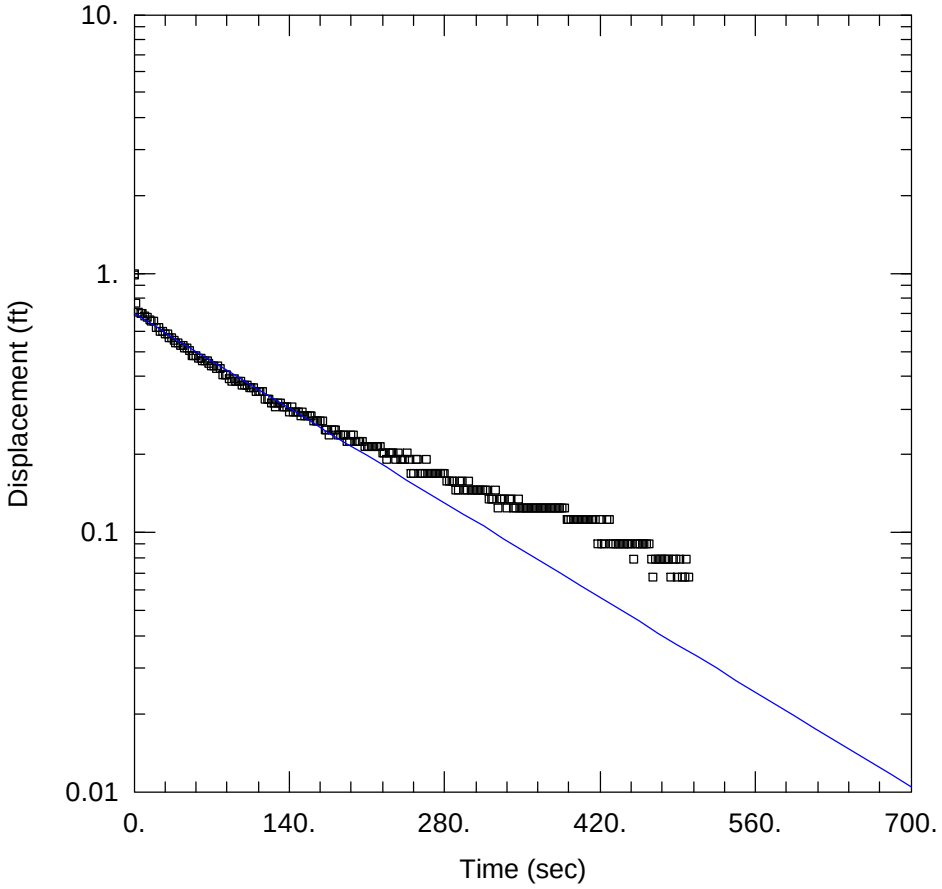
WELL DATA (MW-7A)

Initial Displacement: 1. ft
Wellbore Radius: 0.167 ft
Screen Length: 5. ft
Casing Radius: 0.167 ft
Well Skin Radius: 0.167 ft
Total Well Penetration Depth: 11.8 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.001333 cm/sec y0 = 0.7414 ft



MW-7A RISING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW-7A_4.aqt
Date: 10/06/09 Time: 10:29:30

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-7A
Test Date: February 3, 2009

AQUIFER DATA

Saturated Thickness: 15. ft Anisotropy Ratio (Kz/Kr): 1.

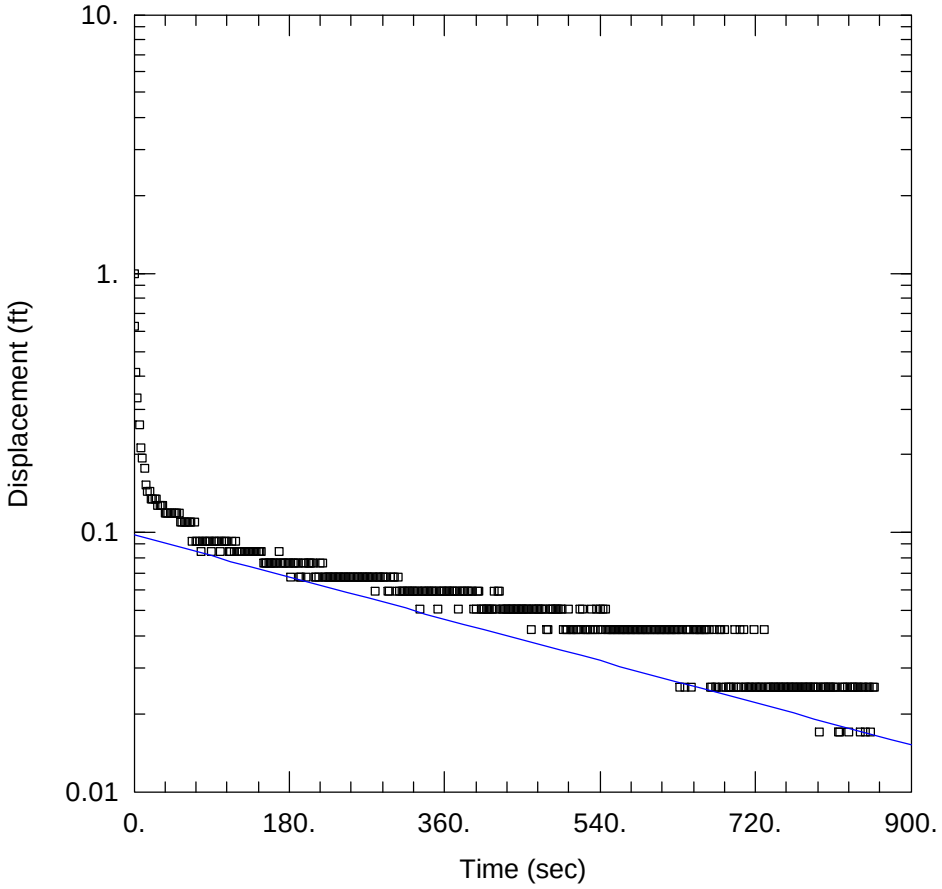
WELL DATA (MW-7A)

Initial Displacement: 1. ft
Wellbore Radius: 0.167 ft
Screen Length: 5. ft
Casing Radius: 0.167 ft
Well Skin Radius: 0.167 ft
Total Well Penetration Depth: 11.8 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.001347 cm/sec y0 = 0.7 ft



MW-8 FALLING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW-8_1.aqt
Date: 10/06/09 Time: 10:31:54

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-8
Test Date: March 6, 2009

AQUIFER DATA

Saturated Thickness: 12. ft Anisotropy Ratio (Kz/Kr): 1.

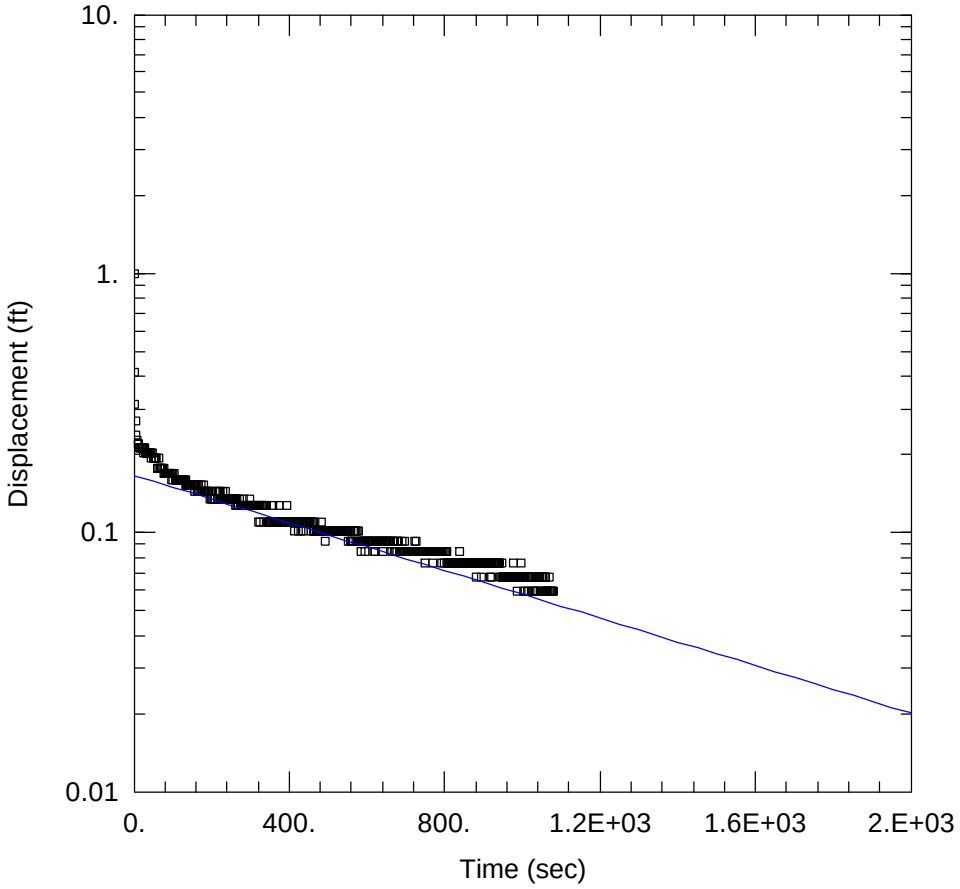
WELL DATA (MW-8)

Initial Displacement: 1. ft
Wellbore Radius: 0.333 ft
Screen Length: 5. ft
Casing Radius: 0.083 ft
Well Skin Radius: 0.333 ft
Total Well Penetration Depth: 5.3 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 7.355E-05 cm/sec
y0 = 0.09792 ft



MW-8 RISING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW-8_2.aqt
Date: 10/06/09 Time: 10:31:40

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-8
Test Date: March 6, 2009

AQUIFER DATA

Saturated Thickness: 12. ft Anisotropy Ratio (Kz/Kr): 1.

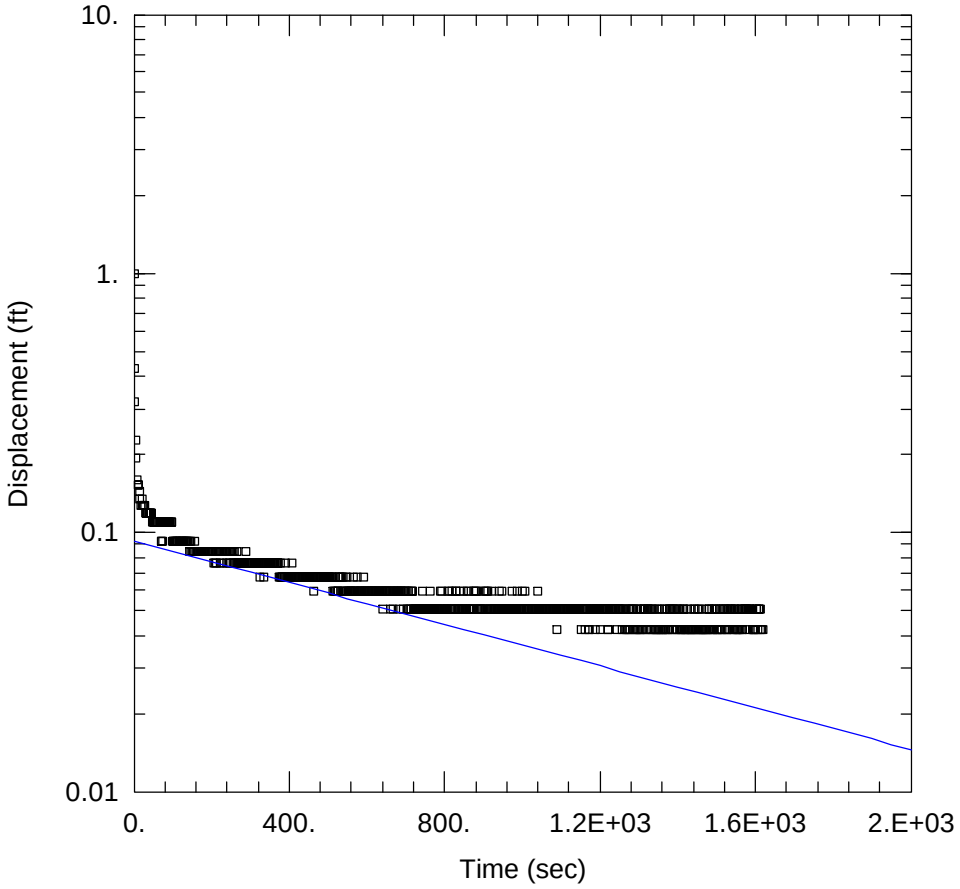
WELL DATA (MW-8)

Initial Displacement: 1. ft
Wellbore Radius: 0.333 ft
Screen Length: 5. ft
Casing Radius: 0.083 ft
Well Skin Radius: 0.333 ft
Total Well Penetration Depth: 5.3 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 3.746E-05 cm/sec
y0 = 0.1662 ft



MW-8 FALLING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW-8_3.aqt
Date: 10/06/09 Time: 10:31:29

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-8
Test Date: March 6, 2009

AQUIFER DATA

Saturated Thickness: 12. ft Anisotropy Ratio (Kz/Kr): 1.

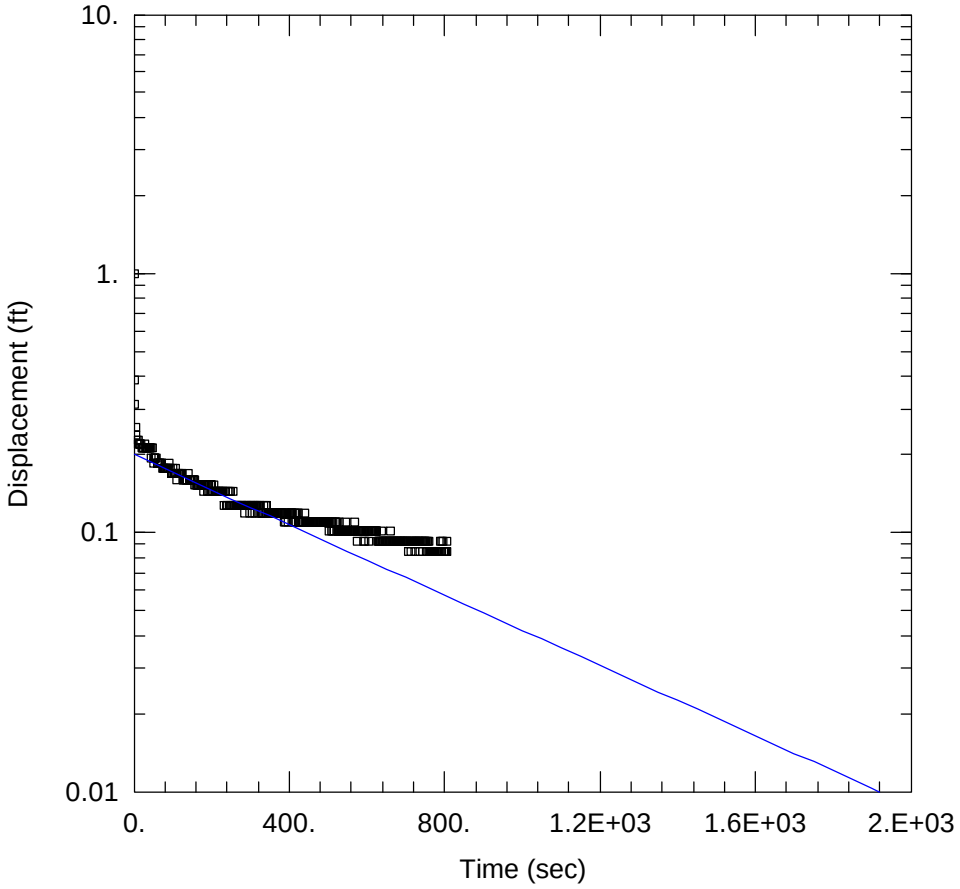
WELL DATA (MW-8)

Initial Displacement: 1. ft
Wellbore Radius: 0.333 ft
Screen Length: 5. ft
Casing Radius: 0.083 ft
Well Skin Radius: 0.333 ft
Total Well Penetration Depth: 5.3 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 3.283E-05 cm/sec
y0 = 0.09273 ft



MW-8 RISING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW-8_4.aqt
Date: 10/06/09 Time: 10:31:15

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-8
Test Date: March 6, 2009

AQUIFER DATA

Saturated Thickness: 12. ft Anisotropy Ratio (Kz/Kr): 1.

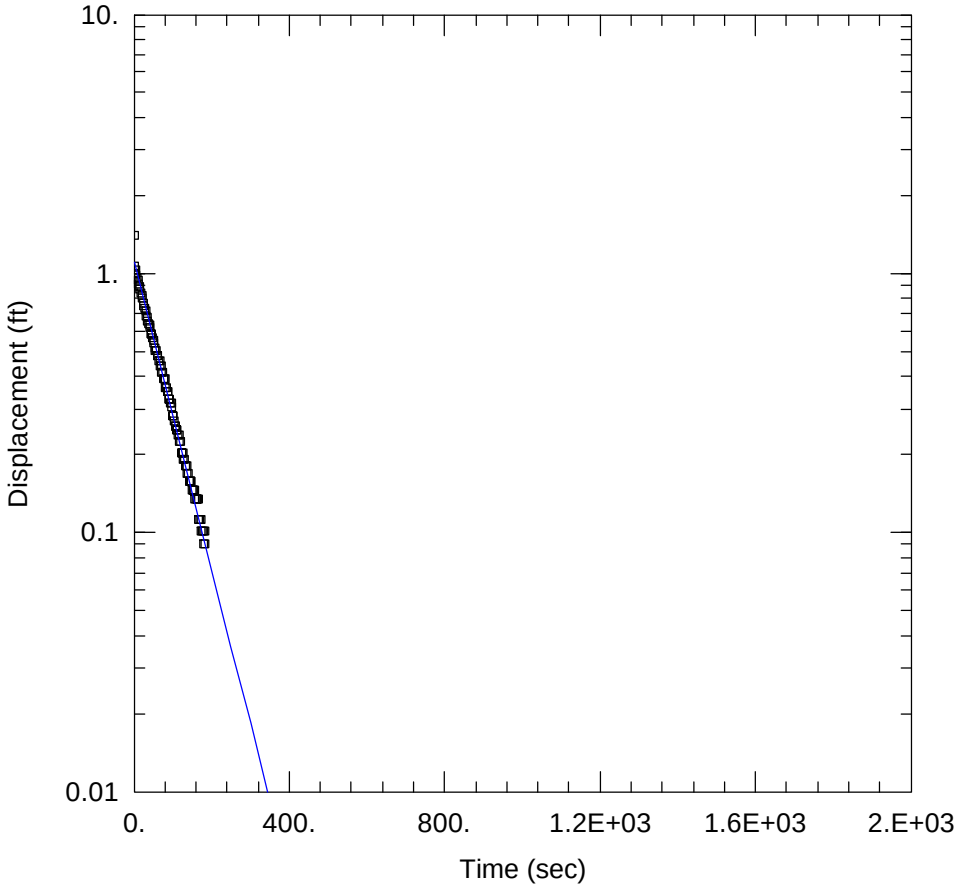
WELL DATA (MW-8)

Initial Displacement: 1. ft
Wellbore Radius: 0.333 ft
Screen Length: 5. ft
Casing Radius: 0.083 ft
Well Skin Radius: 0.333 ft
Total Well Penetration Depth: 5.3 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 5.531E-05 cm/sec
y0 = 0.1995 ft



MW-9 FALLING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW-9_1.aqt
Date: 10/06/09 Time: 10:33:28

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-9
Test Date: February 9, 2009

AQUIFER DATA

Saturated Thickness: 12. ft Anisotropy Ratio (Kz/Kr): 1.

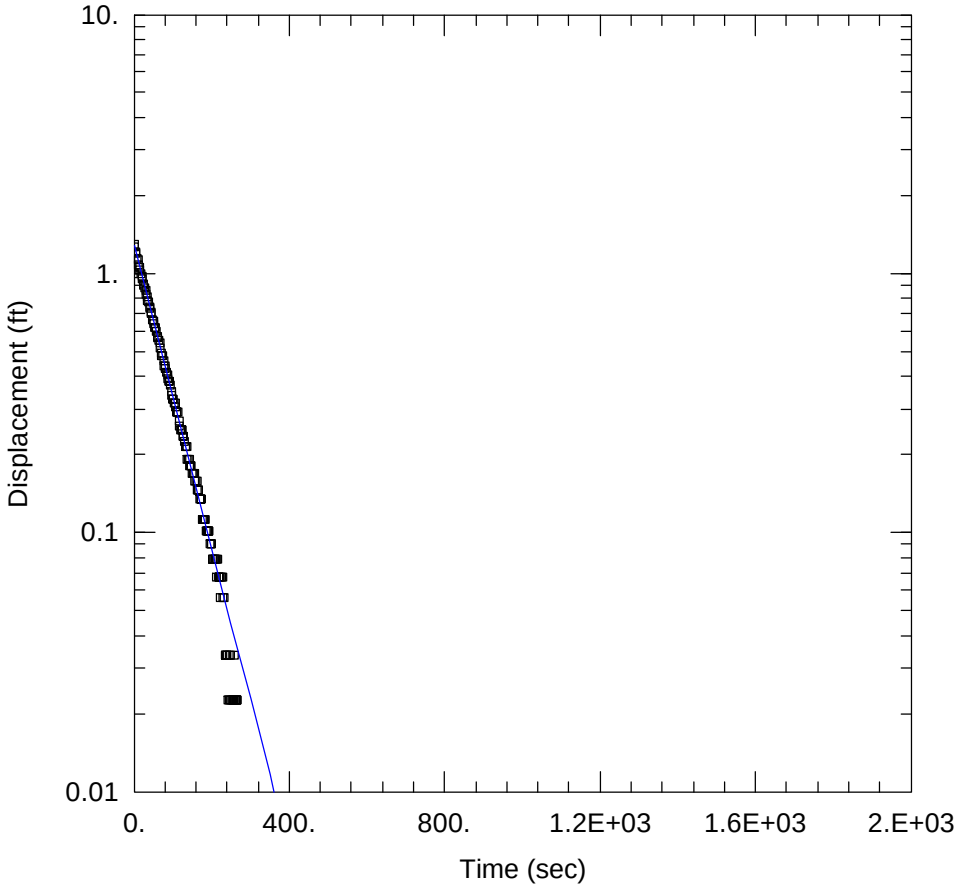
WELL DATA (MW-9)

Initial Displacement: 1. ft
Wellbore Radius: 0.333 ft
Screen Length: 5. ft
Casing Radius: 0.083 ft
Well Skin Radius: 0.333 ft
Total Well Penetration Depth: 4.8 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0004719 cm/sec y0 = 1.11 ft



MW-9 RISING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW-9_2.aqt
Date: 10/06/09 Time: 10:33:15

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-9
Test Date: February 9, 2009

AQUIFER DATA

Saturated Thickness: 12. ft Anisotropy Ratio (Kz/Kr): 1.

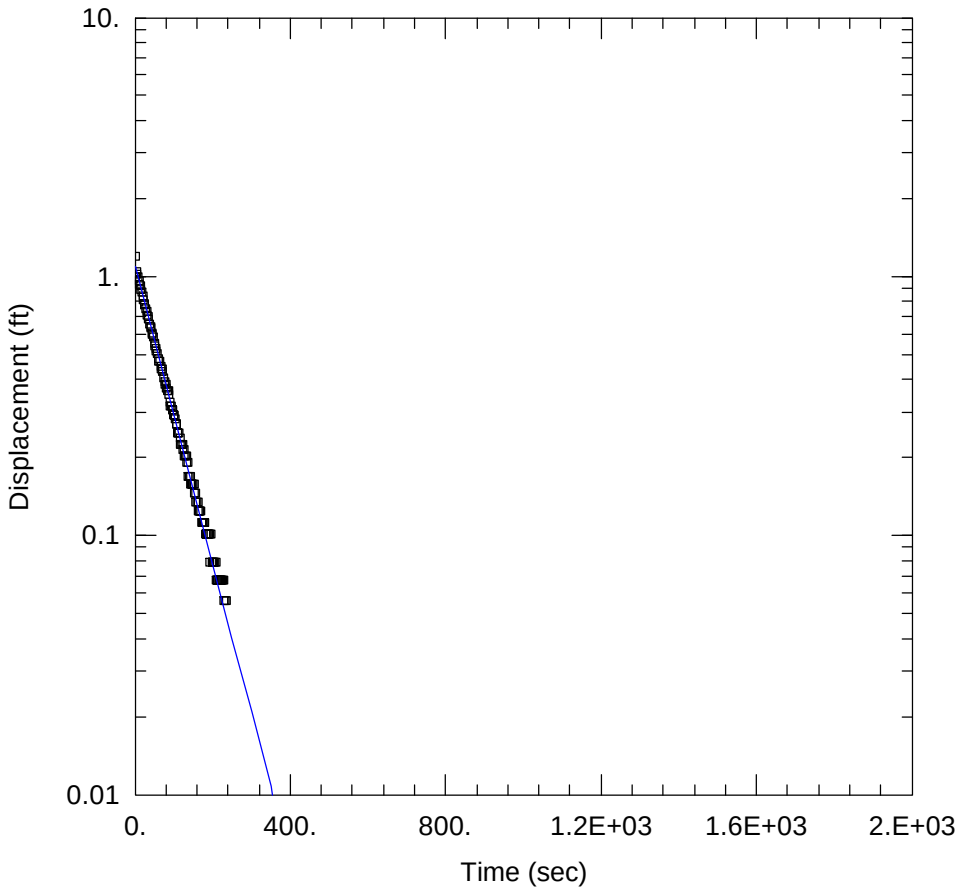
WELL DATA (MW-9)

Initial Displacement: 1. ft
Wellbore Radius: 0.333 ft
Screen Length: 5. ft
Casing Radius: 0.083 ft
Well Skin Radius: 0.333 ft
Total Well Penetration Depth: 4.8 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0004641 cm/sec y0 = 1.285 ft



MW-9 FALLING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW-9_3.aqt
Date: 10/06/09 Time: 10:33:01

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-9
Test Date: February 9, 2009

AQUIFER DATA

Saturated Thickness: 12. ft Anisotropy Ratio (Kz/Kr): 1.

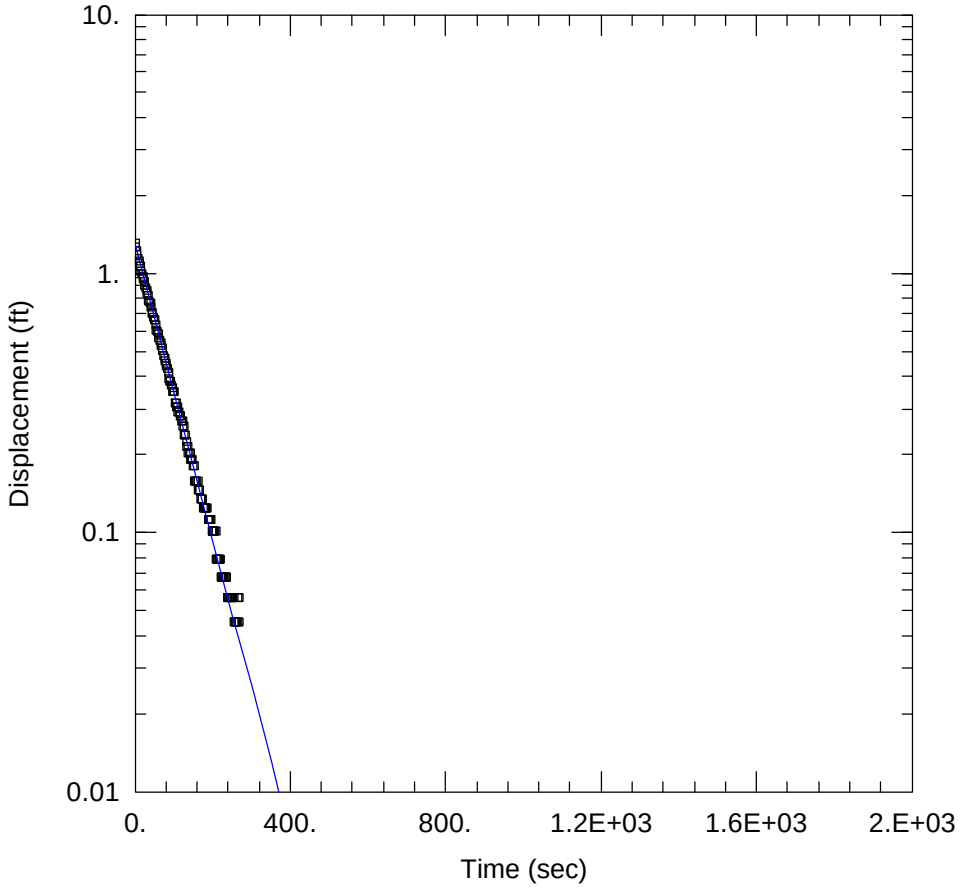
WELL DATA (MW-9)

Initial Displacement: 1. ft
Wellbore Radius: 0.333 ft
Screen Length: 5. ft
Casing Radius: 0.083 ft
Well Skin Radius: 0.333 ft
Total Well Penetration Depth: 4.8 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.000456 cm/sec
y0 = 1.099 ft



MW-9 RISING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW-9_4.aqt
Date: 10/06/09 Time: 10:32:43

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-9
Test Date: February 9, 2009

AQUIFER DATA

Saturated Thickness: 12. ft Anisotropy Ratio (Kz/Kr): 1.

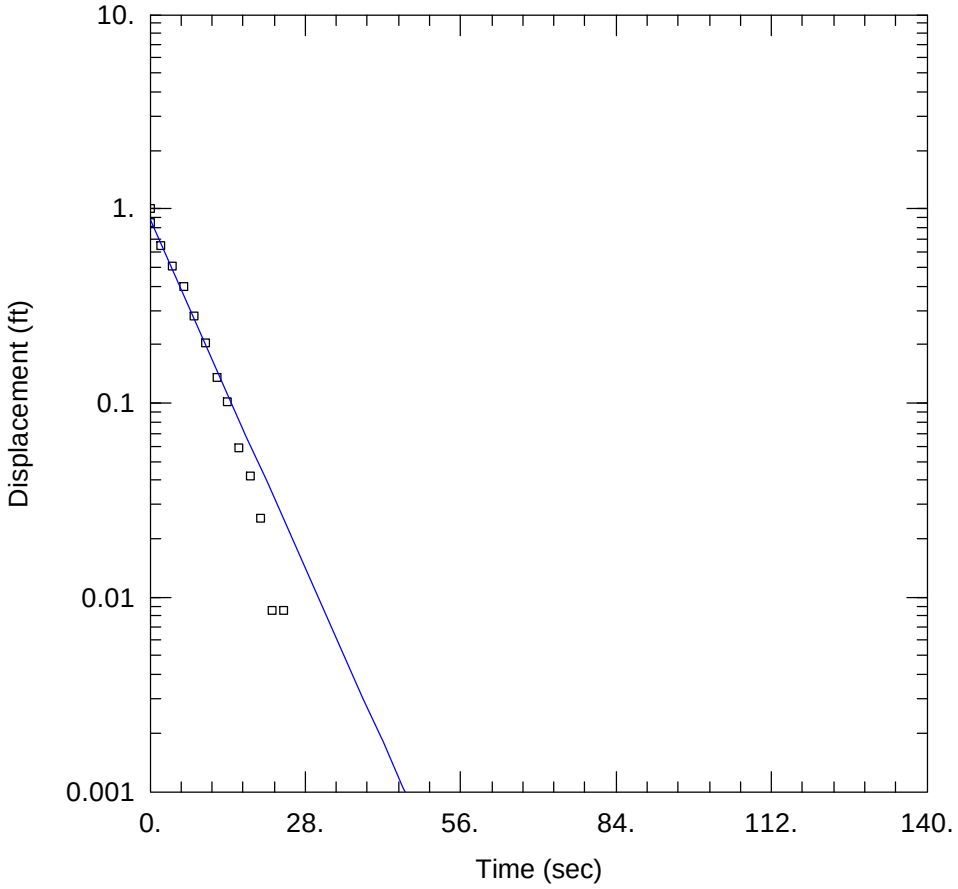
WELL DATA (MW-9)

Initial Displacement: 1. ft
Wellbore Radius: 0.333 ft
Screen Length: 5. ft
Casing Radius: 0.083 ft
Well Skin Radius: 0.333 ft
Total Well Penetration Depth: 4.8 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.0004505 cm/sec
y0 = 1.28 ft



MW-9A FALLING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW-9A_1.aqt
Date: 10/06/09 Time: 10:35:57

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-9A
Test Date: February 9, 2009

AQUIFER DATA

Saturated Thickness: 30. ft Anisotropy Ratio (Kz/Kr): 1.

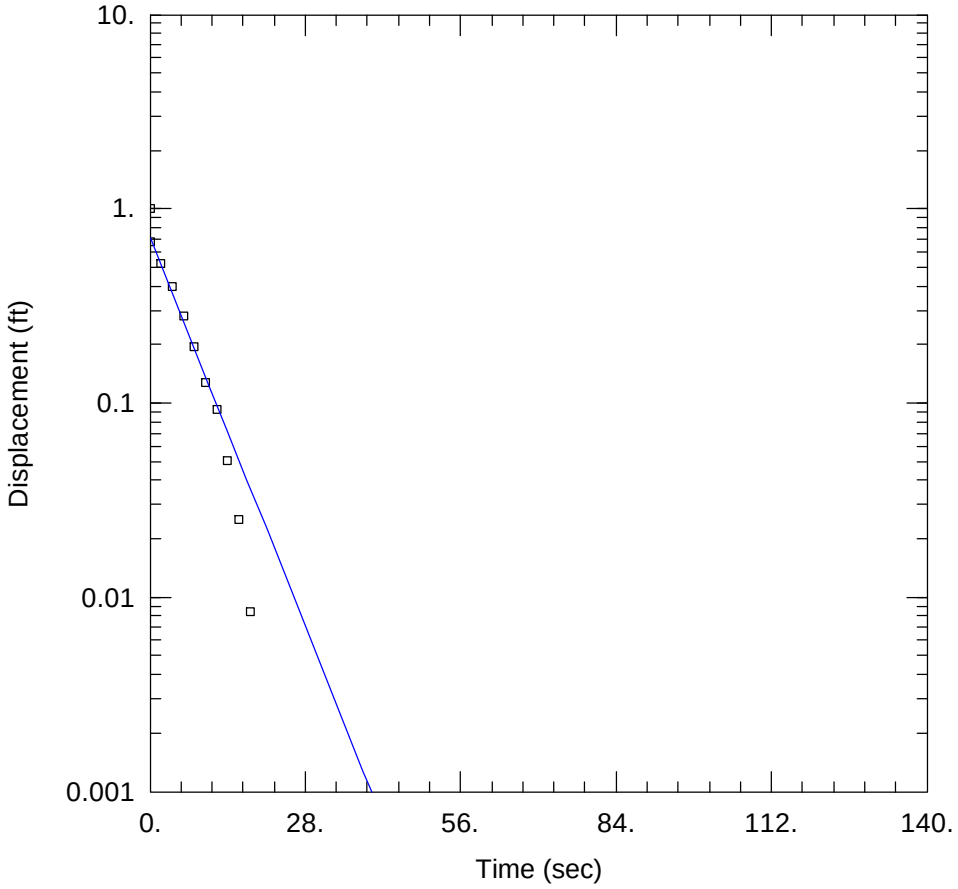
WELL DATA (MW-9A)

Initial Displacement: 1. ft
Wellbore Radius: 0.167 ft
Screen Length: 5. ft
Casing Radius: 0.167 ft
Well Skin Radius: 0.167 ft
Total Well Penetration Depth: 26. ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.03673 cm/sec y0 = 0.8768 ft



MW-9A RISING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW-9A_2.aqt
Date: 10/06/09 Time: 10:35:46

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-9A
Test Date: February 9, 2009

AQUIFER DATA

Saturated Thickness: 30. ft Anisotropy Ratio (Kz/Kr): 1.

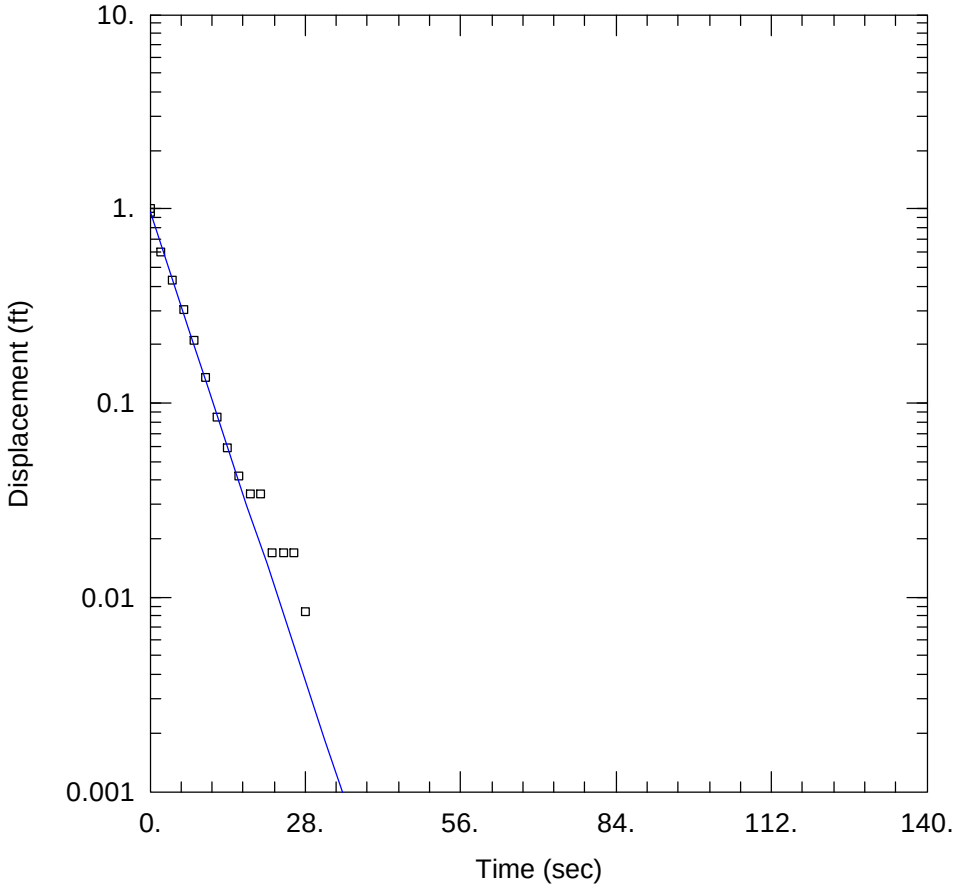
WELL DATA (MW-9A)

Initial Displacement: 1. ft
Wellbore Radius: 0.167 ft
Screen Length: 5. ft
Casing Radius: 0.167 ft
Well Skin Radius: 0.167 ft
Total Well Penetration Depth: 26. ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.04088 cm/sec y0 = 0.7099 ft



MW-9A FALLING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW-9A_3.aqt
Date: 10/06/09 Time: 10:35:34

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-9A
Test Date: February 9, 2009

AQUIFER DATA

Saturated Thickness: 30. ft Anisotropy Ratio (Kz/Kr): 1.

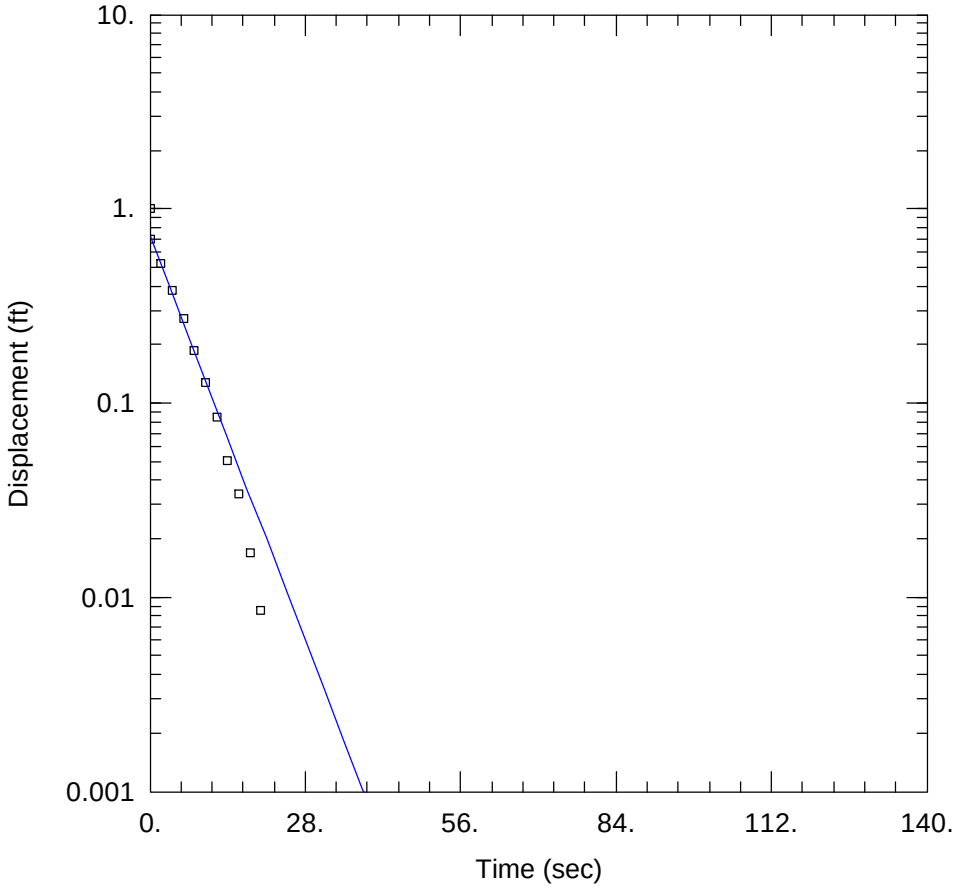
WELL DATA (MW-9A)

Initial Displacement: 1. ft
Wellbore Radius: 0.167 ft
Screen Length: 5. ft
Casing Radius: 0.167 ft
Well Skin Radius: 0.167 ft
Total Well Penetration Depth: 26. ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.04934 cm/sec y0 = 0.9581 ft



MW-9A RISING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW-9A_4.aqt
Date: 10/06/09 Time: 10:35:15

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-9A
Test Date: February 9, 2009

AQUIFER DATA

Saturated Thickness: 30. ft Anisotropy Ratio (Kz/Kr): 1.

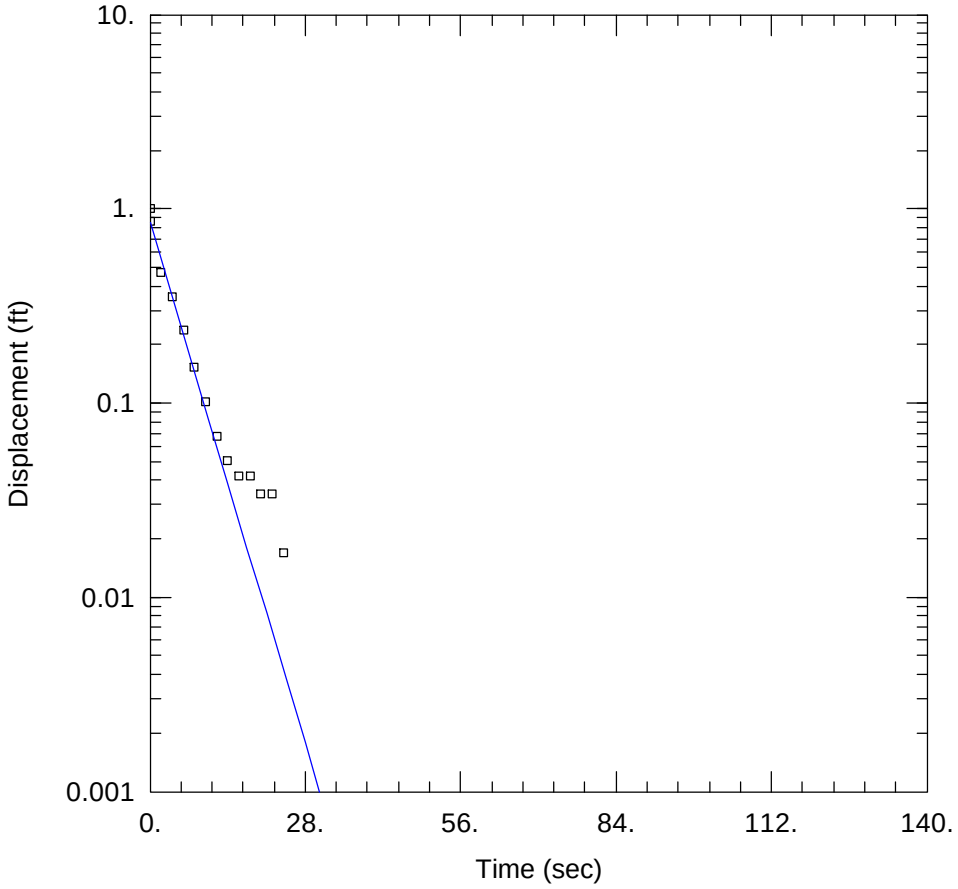
WELL DATA (MW-9A)

Initial Displacement: 1. ft
Wellbore Radius: 0.167 ft
Screen Length: 5. ft
Casing Radius: 0.167 ft
Well Skin Radius: 0.167 ft
Total Well Penetration Depth: 26. ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0425 cm/sec y0 = 0.7211 ft



MW-9A FALLING HEAD SLUG TEST #3

Data Set: C:\Buffalo China\MW-9A_5.aqt
Date: 10/06/09 Time: 10:34:57

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-9A
Test Date: February 9, 2009

AQUIFER DATA

Saturated Thickness: 30. ft Anisotropy Ratio (Kz/Kr): 1.

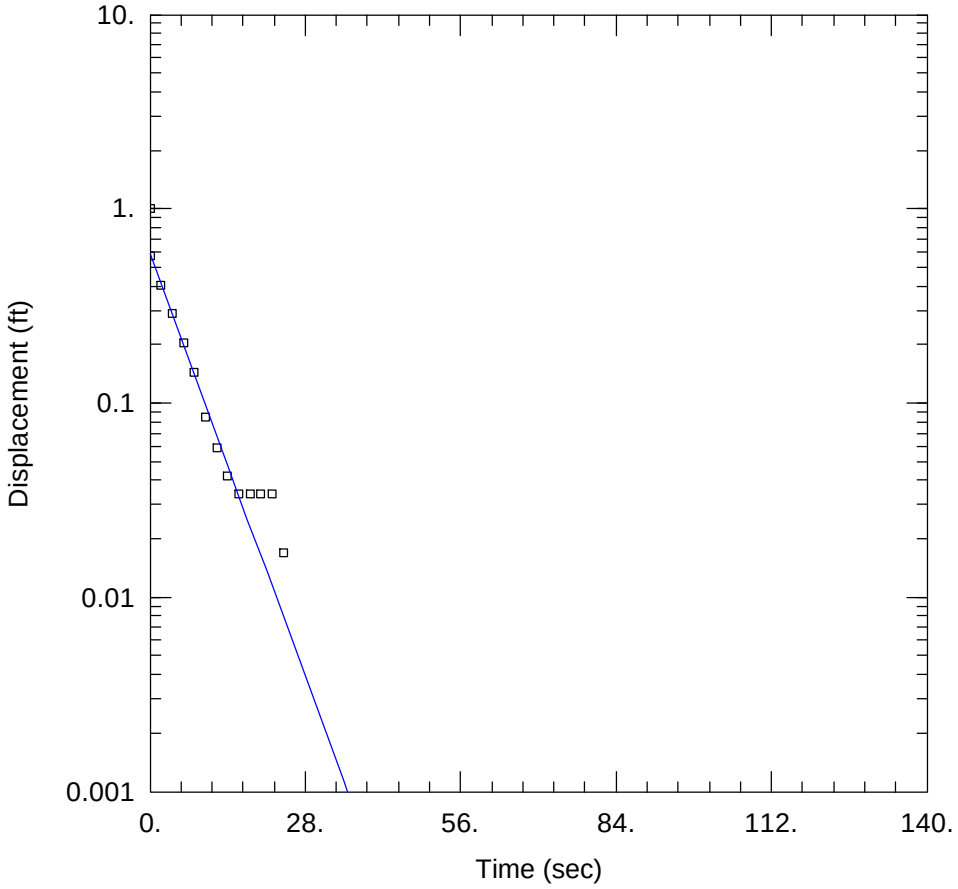
WELL DATA (MW-9A)

Initial Displacement: 1. ft
Wellbore Radius: 0.167 ft
Screen Length: 5. ft
Casing Radius: 0.167 ft
Well Skin Radius: 0.167 ft
Total Well Penetration Depth: 26. ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.05474 cm/sec y0 = 0.8437 ft



MW-9A RISING HEAD SLUG TEST #3

Data Set: C:\Buffalo China\MW-9A_6.aqt
Date: 10/06/09 Time: 10:34:43

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-9A
Test Date: February 9, 2009

AQUIFER DATA

Saturated Thickness: 30. ft Anisotropy Ratio (Kz/Kr): 1.

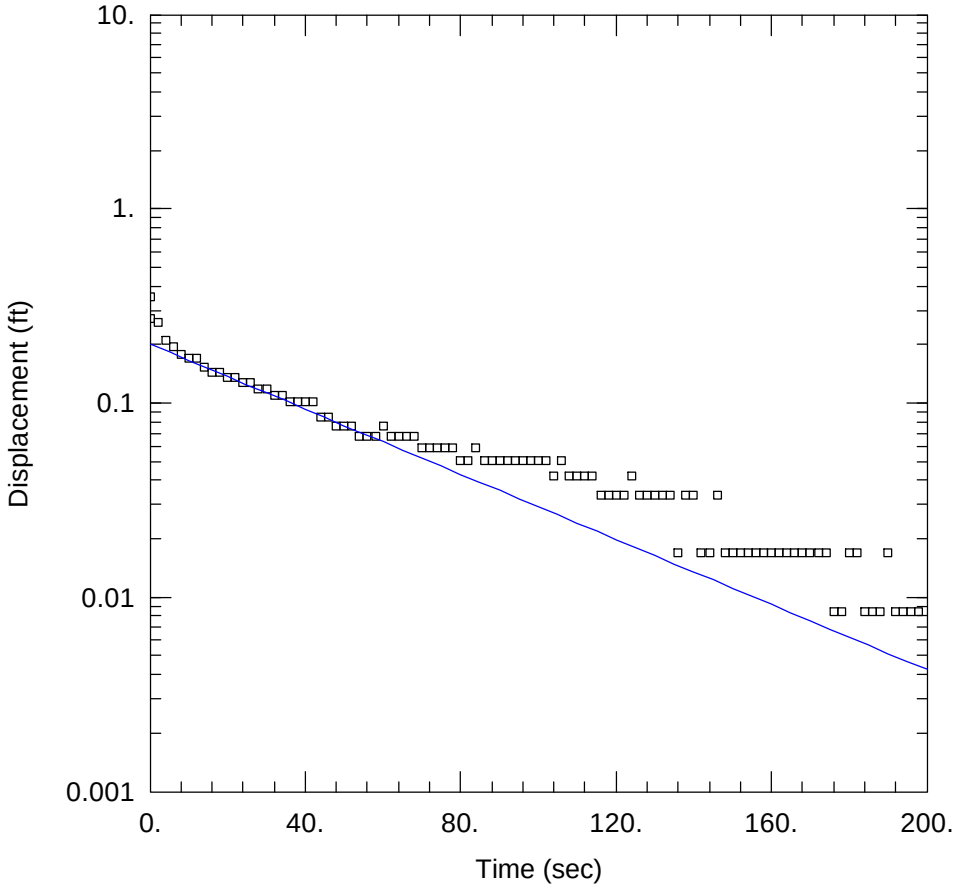
WELL DATA (MW-9A)

Initial Displacement: 1. ft
Wellbore Radius: 0.167 ft
Screen Length: 5. ft
Casing Radius: 0.167 ft
Well Skin Radius: 0.167 ft
Total Well Penetration Depth: 26. ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0444 cm/sec y0 = 0.5833 ft



MW-10 FALLING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW-10_1.aqt
Date: 07/13/09 Time: 10:36:33

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-10
Test Date: February 16, 2009

AQUIFER DATA

Saturated Thickness: 12. ft Anisotropy Ratio (Kz/Kr): 1.

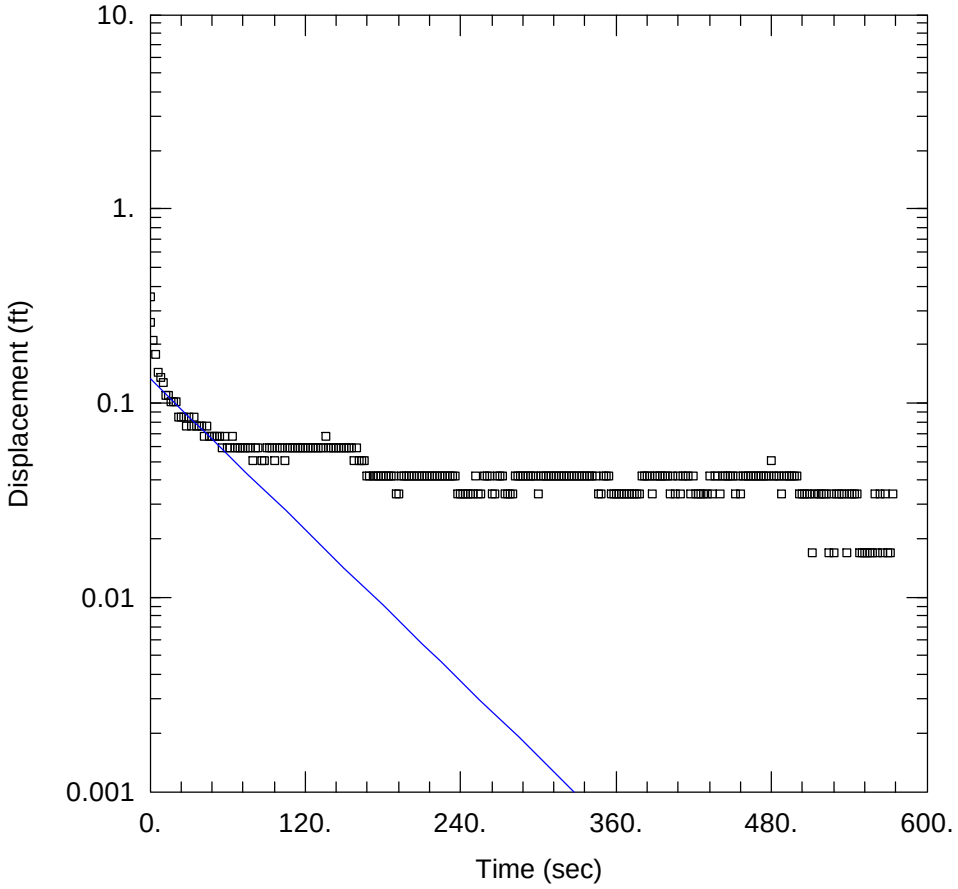
WELL DATA (MW-10)

Initial Displacement: 0.35 ft Casing Radius: 0.083 ft
Wellbore Radius: 0.33 ft Well Skin Radius: 0.33 ft
Screen Length: 5. ft Total Well Penetration Depth: 1.5 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0004363 cm/sec y0 = 0.2013 ft



MW-10 RISING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW-10_2.aqt
Date: 07/13/09 Time: 10:37:04

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-10
Test Date: February 16, 2009

AQUIFER DATA

Saturated Thickness: 12. ft Anisotropy Ratio (Kz/Kr): 1.

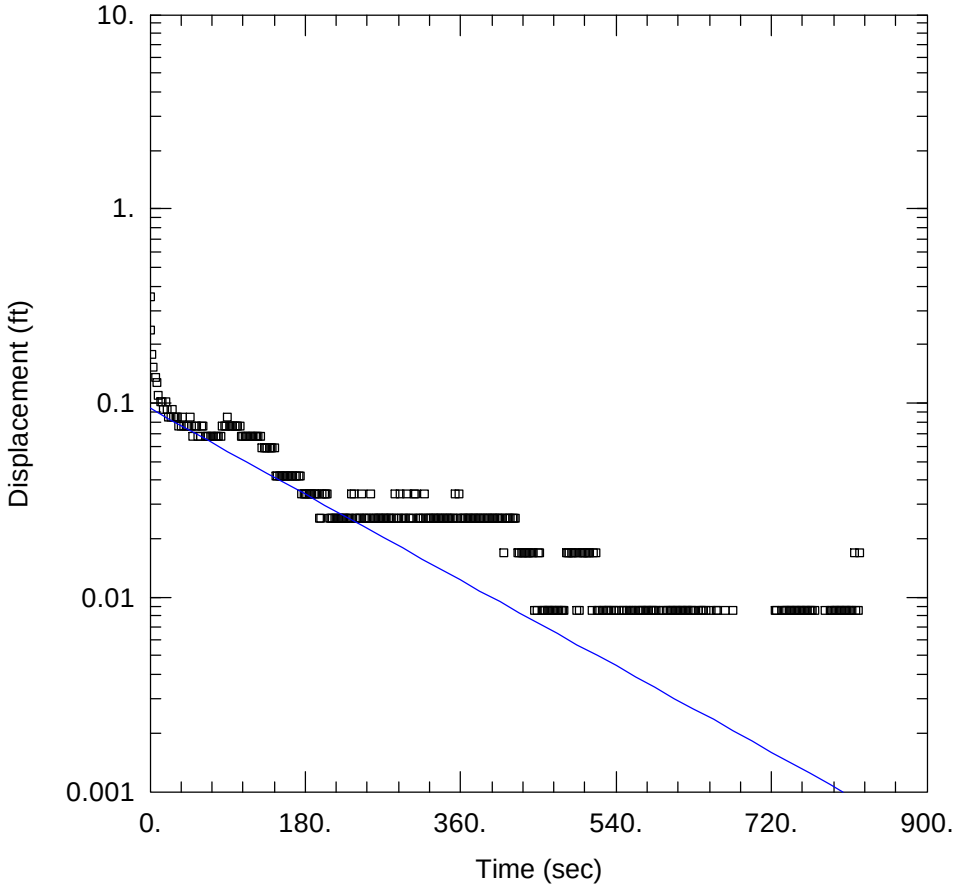
WELL DATA (MW-10)

Initial Displacement: 0.35 ft Casing Radius: 0.083 ft
Wellbore Radius: 0.33 ft Well Skin Radius: 0.33 ft
Screen Length: 5. ft Total Well Penetration Depth: 1.5 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0003373 cm/sec y0 = 0.1332 ft



MW-10 FALLING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW-10_3.aqt
Date: 07/13/09 Time: 10:37:30

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-10
Test Date: February 16, 2009

AQUIFER DATA

Saturated Thickness: 12. ft Anisotropy Ratio (Kz/Kr): 1.

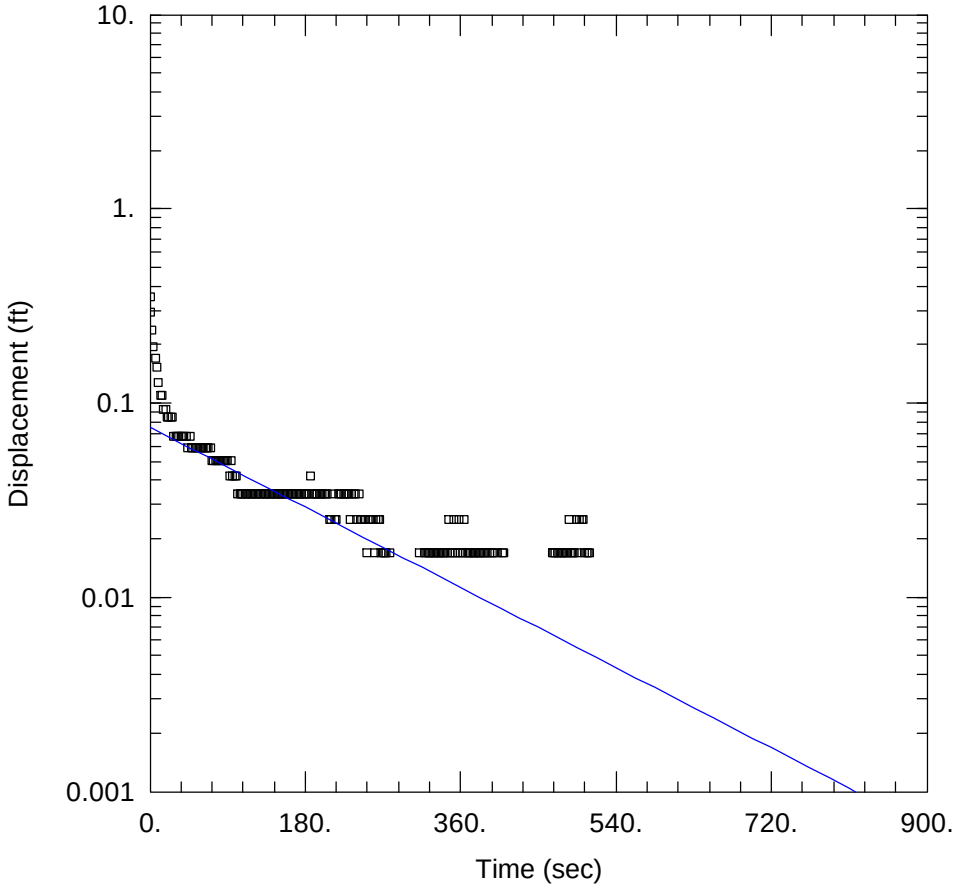
WELL DATA (MW-10)

Initial Displacement: 0.35 ft Casing Radius: 0.083 ft
Wellbore Radius: 0.33 ft Well Skin Radius: 0.33 ft
Screen Length: 5. ft Total Well Penetration Depth: 1.5 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0001278 cm/sec y0 = 0.09379 ft



MW-10 RISING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW-10_4.aqt
Date: 07/13/09 Time: 10:37:51

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-10
Test Date: February 16, 2009

AQUIFER DATA

Saturated Thickness: 12. ft Anisotropy Ratio (Kz/Kr): 1.

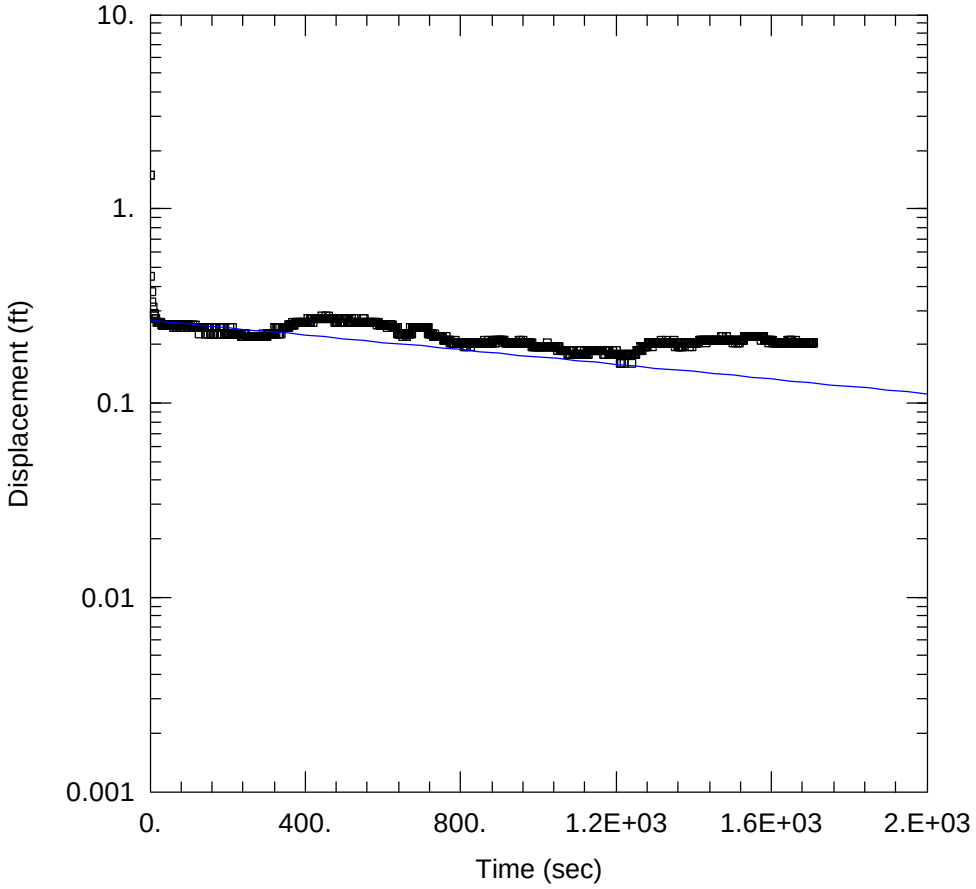
WELL DATA (MW-10)

Initial Displacement: 0.35 ft Casing Radius: 0.083 ft
Wellbore Radius: 0.33 ft Well Skin Radius: 0.33 ft
Screen Length: 5. ft Total Well Penetration Depth: 1.5 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0001193 cm/sec y0 = 0.07513 ft



MW-11 FALLING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW-11_1.aqt
Date: 07/13/09 Time: 10:38:55

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-11
Test Date: February 16, 2009

AQUIFER DATA

Saturated Thickness: 12. ft Anisotropy Ratio (Kz/Kr): 1.

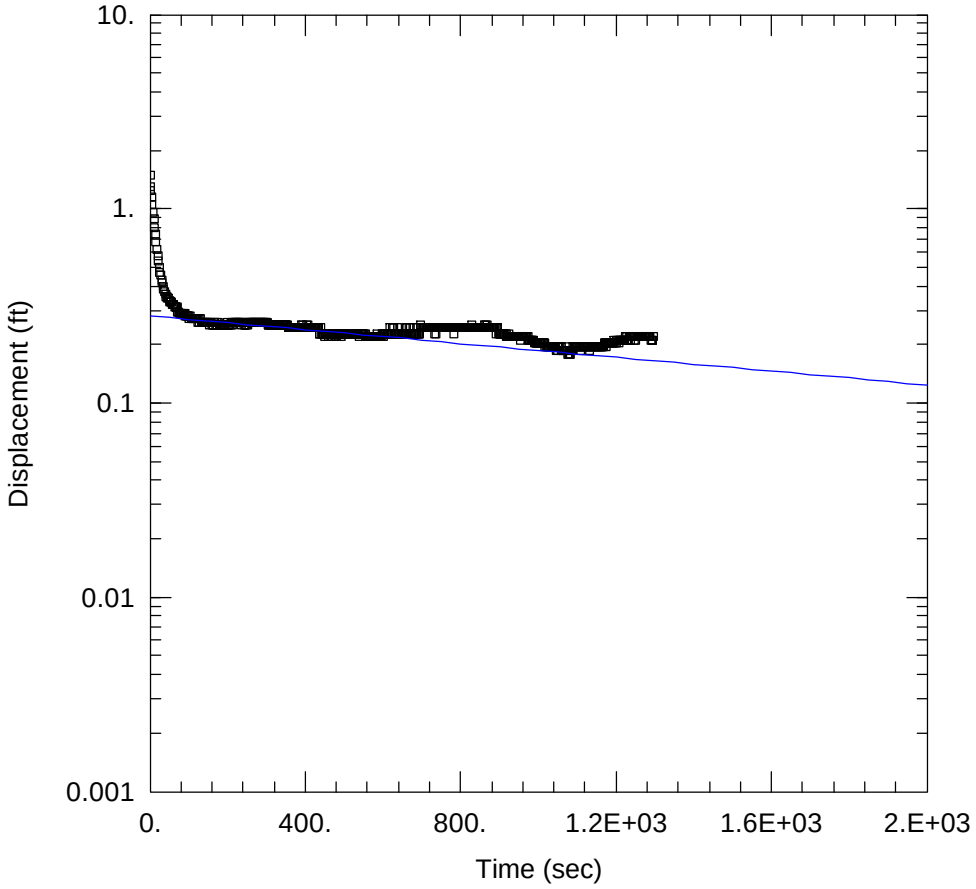
WELL DATA (MW-11)

Initial Displacement: 1.5 ft Casing Radius: 0.083 ft
Wellbore Radius: 0.33 ft Well Skin Radius: 0.33 ft
Screen Length: 5. ft Total Well Penetration Depth: 5. ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 1.523E-05 cm/sec y0 = 0.2666 ft



MW-11 RISING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW-11_2.aqt
Date: 07/13/09 Time: 10:39:25

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-11
Test Date: February 16, 2009

AQUIFER DATA

Saturated Thickness: 12. ft Anisotropy Ratio (Kz/Kr): 1.

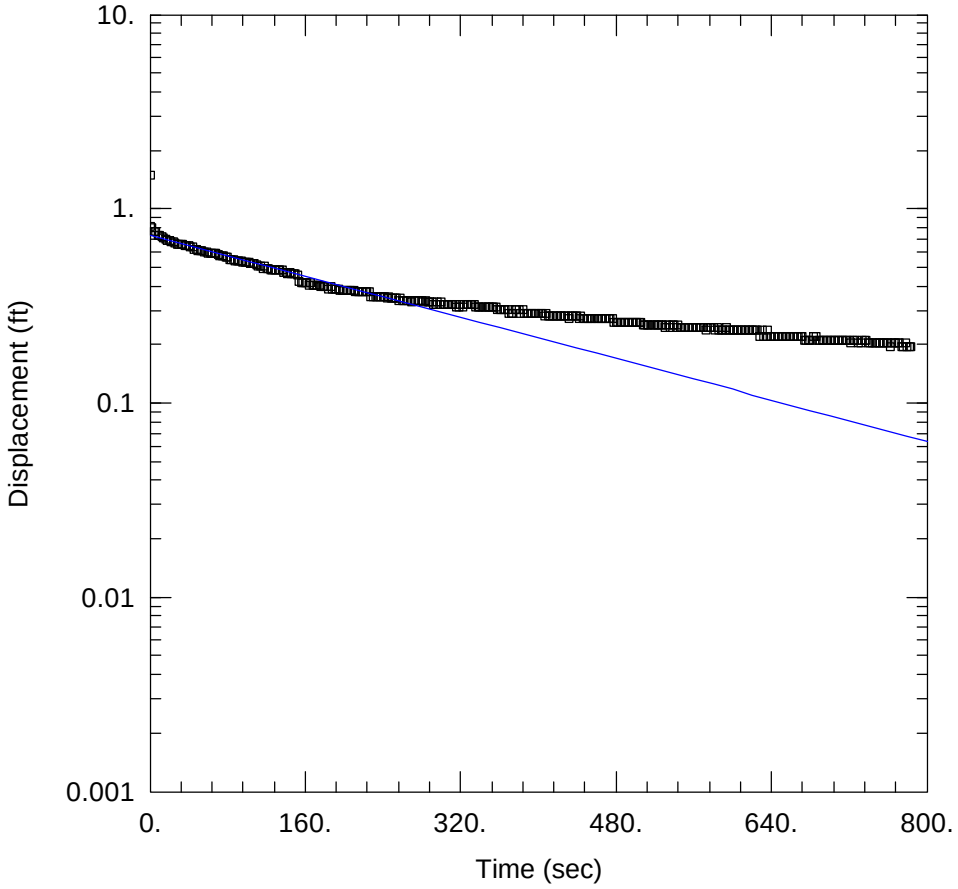
WELL DATA (MW-11)

Initial Displacement: 1.5 ft Casing Radius: 0.083 ft
Wellbore Radius: 0.33 ft Well Skin Radius: 0.33 ft
Screen Length: 5. ft Total Well Penetration Depth: 5. ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 1.433E-05 cm/sec y0 = 0.2808 ft



MW-13A FALLING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW-13A_1.aqt
Date: 10/06/09 Time: 10:37:36

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-13A
Test Date: February 3, 2009

AQUIFER DATA

Saturated Thickness: 15. ft Anisotropy Ratio (Kz/Kr): 1.

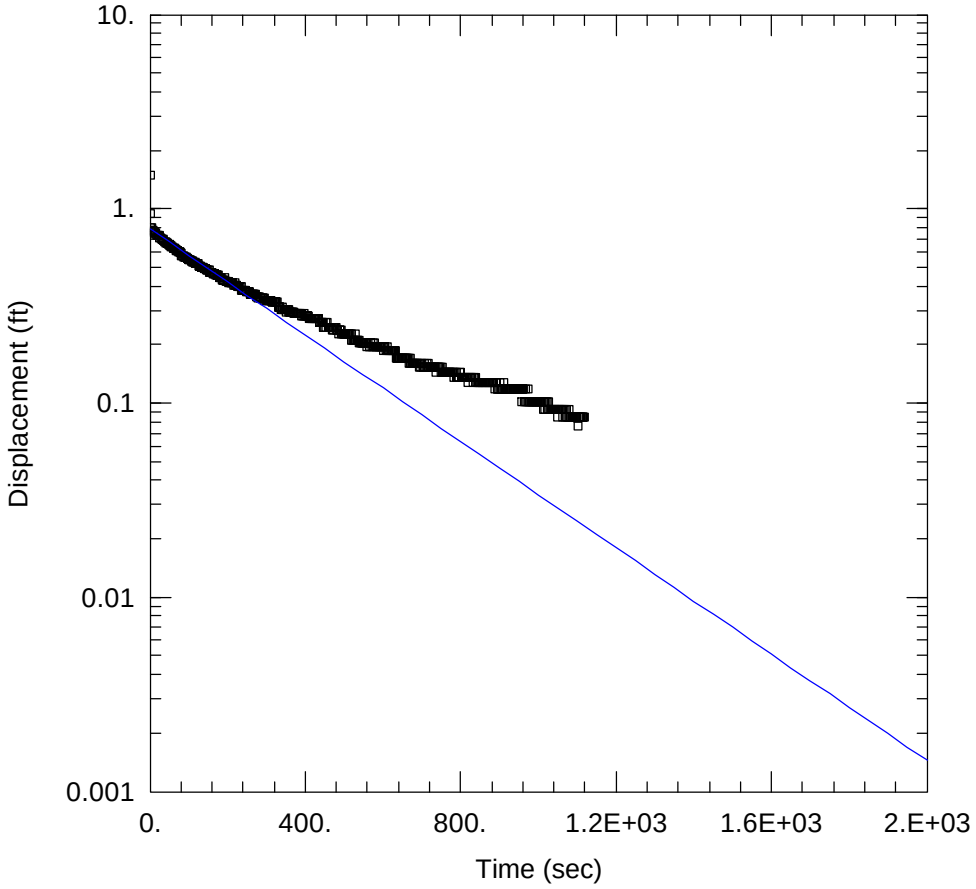
WELL DATA (MW-13A)

Initial Displacement: 1.5 ft Casing Radius: 0.167 ft
Wellbore Radius: 0.167 ft Well Skin Radius: 0.167 ft
Screen Length: 5. ft Total Well Penetration Depth: 9. ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0006392 cm/sec y0 = 0.729 ft



MW-13A RISING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW-13A_2.aqt
Date: 10/06/09 Time: 10:37:22

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-13A
Test Date: February 3, 2009

AQUIFER DATA

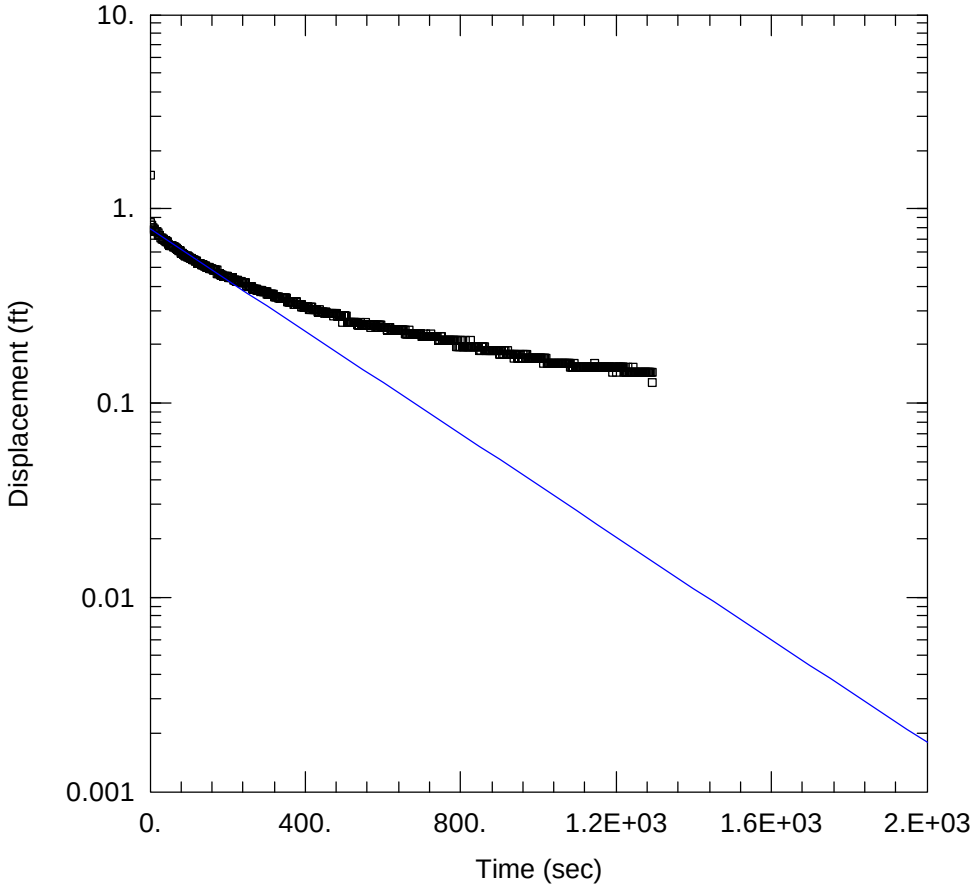
Saturated Thickness: 15. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-13A)

Initial Displacement: 1.5 ft Casing Radius: 0.167 ft
Wellbore Radius: 0.167 ft Well Skin Radius: 0.167 ft
Screen Length: 5. ft Total Well Penetration Depth: 9. ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
K = 0.0006615 cm/sec y0 = 0.7895 ft



MW-13A FALLING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW-13A_3.aqt
Date: 10/06/09 Time: 10:37:08

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-13A
Test Date: February 3, 2009

AQUIFER DATA

Saturated Thickness: 15. ft Anisotropy Ratio (Kz/Kr): 1.

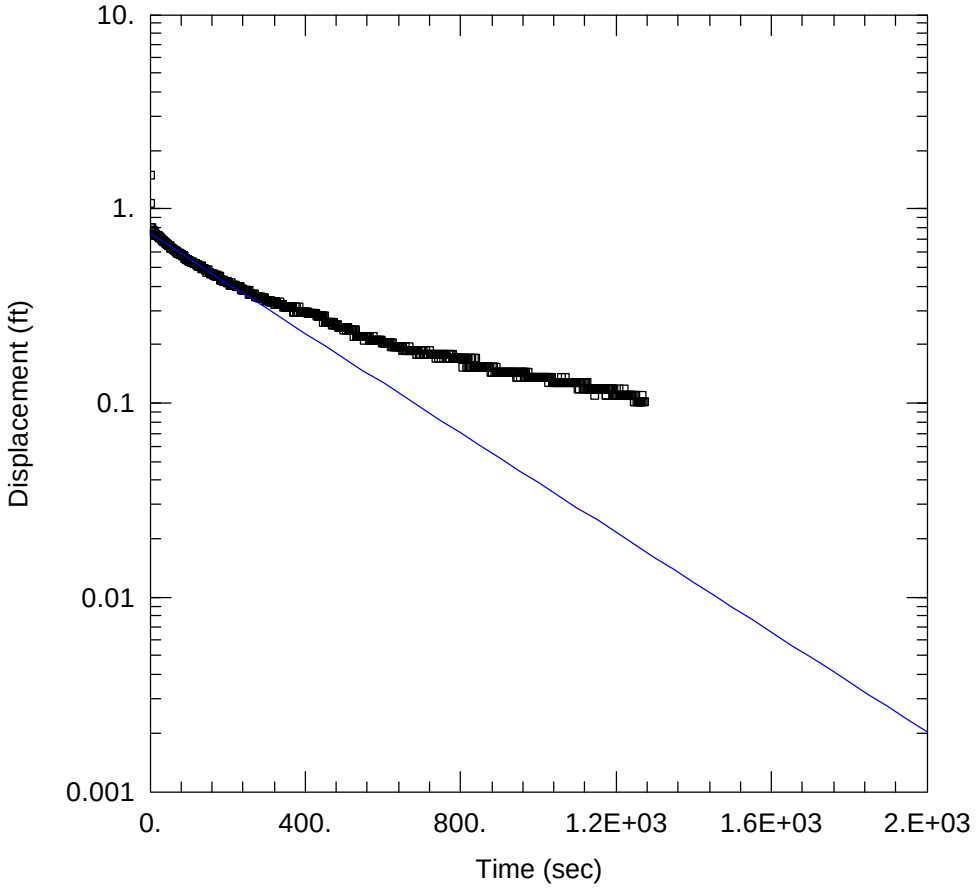
WELL DATA (MW-13A)

Initial Displacement: 1.5 ft Casing Radius: 0.167 ft
Wellbore Radius: 0.167 ft Well Skin Radius: 0.167 ft
Screen Length: 5. ft Total Well Penetration Depth: 9. ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0006388 cm/sec y0 = 0.7892 ft



MW-13A RISING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW-13A_4.aqt
Date: 10/06/09 Time: 10:36:52

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-13A
Test Date: February 3, 2009

AQUIFER DATA

Saturated Thickness: 15. ft Anisotropy Ratio (Kz/Kr): 1.

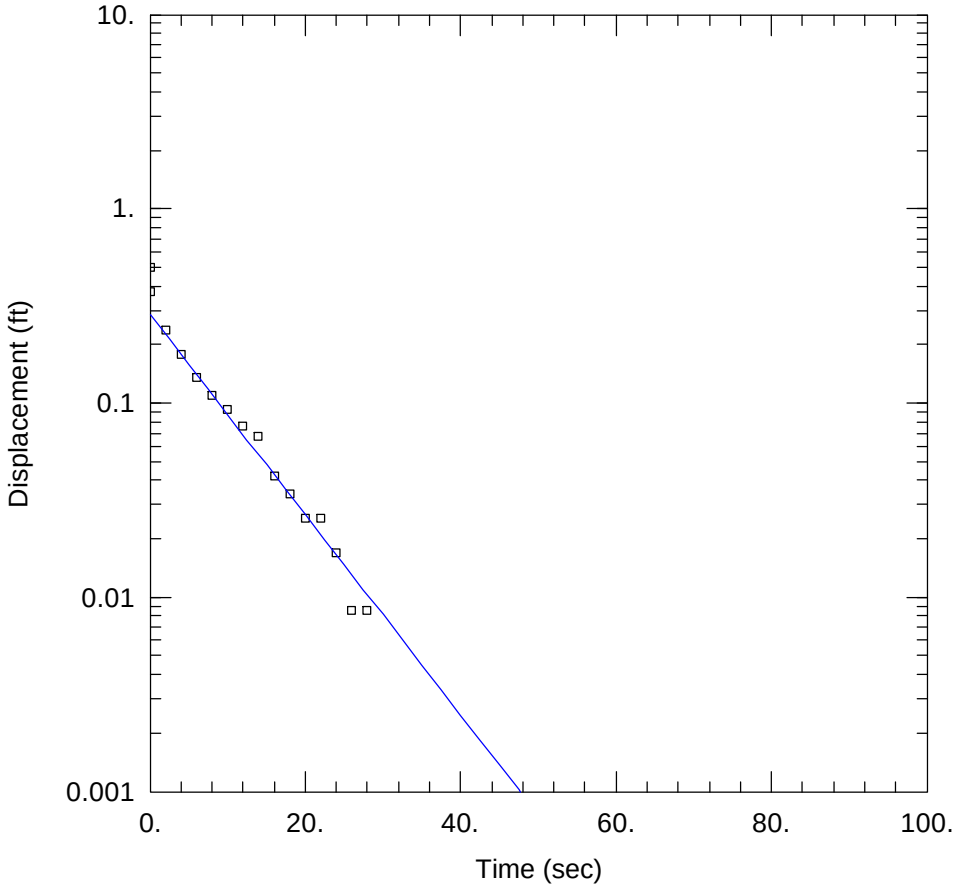
WELL DATA (MW-13A)

Initial Displacement: 1.5 ft Casing Radius: 0.167 ft
Wellbore Radius: 0.167 ft Well Skin Radius: 0.167 ft
Screen Length: 5. ft Total Well Penetration Depth: 9. ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0006198 cm/sec y0 = 0.7447 ft



MW-14A FALLING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW-14A_1.aqt
Date: 07/13/09 Time: 10:43:32

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-14A
Test Date: March 6, 2009

AQUIFER DATA

Saturated Thickness: 15. ft Anisotropy Ratio (Kz/Kr): 1.

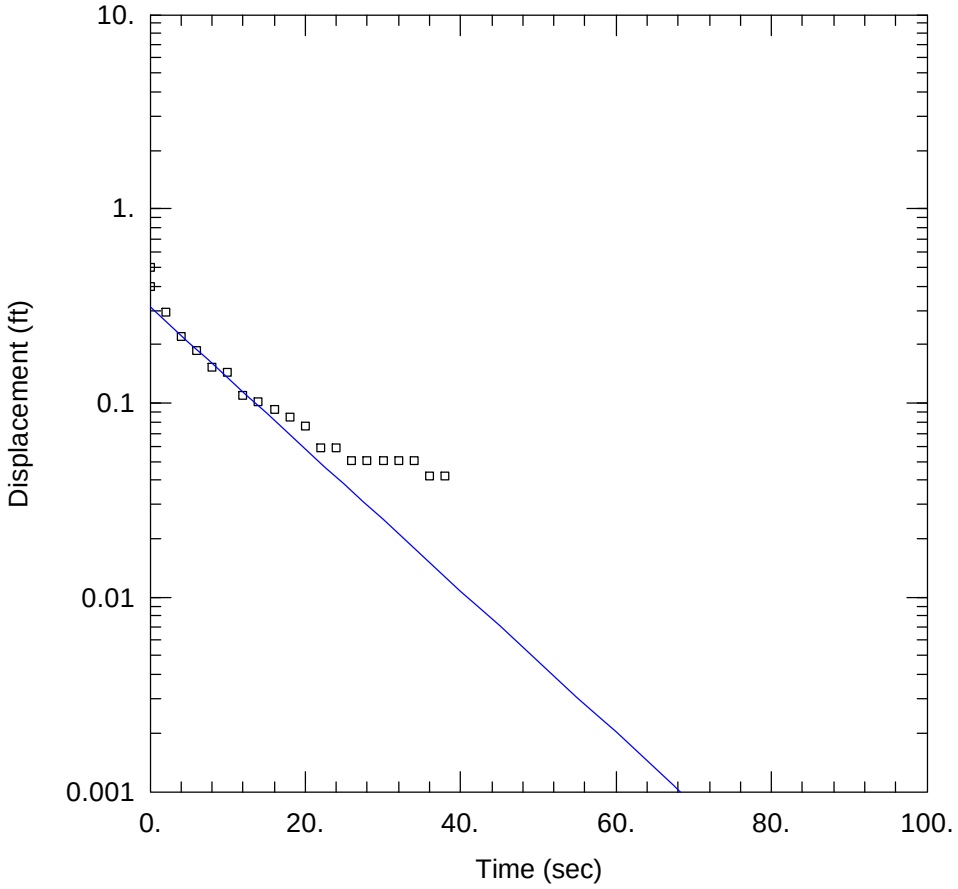
WELL DATA (MW-14A)

Initial Displacement: 0.5 ft Casing Radius: 0.167 ft
Wellbore Radius: 0.167 ft Well Skin Radius: 0.167 ft
Screen Length: 5. ft Total Well Penetration Depth: 4.8 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.02176 cm/sec y0 = 0.2858 ft



MW-14A RISING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW-14A_2.aqt
Date: 07/13/09 Time: 10:43:57

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-14A
Test Date: March 6, 2009

AQUIFER DATA

Saturated Thickness: 15. ft Anisotropy Ratio (Kz/Kr): 1.

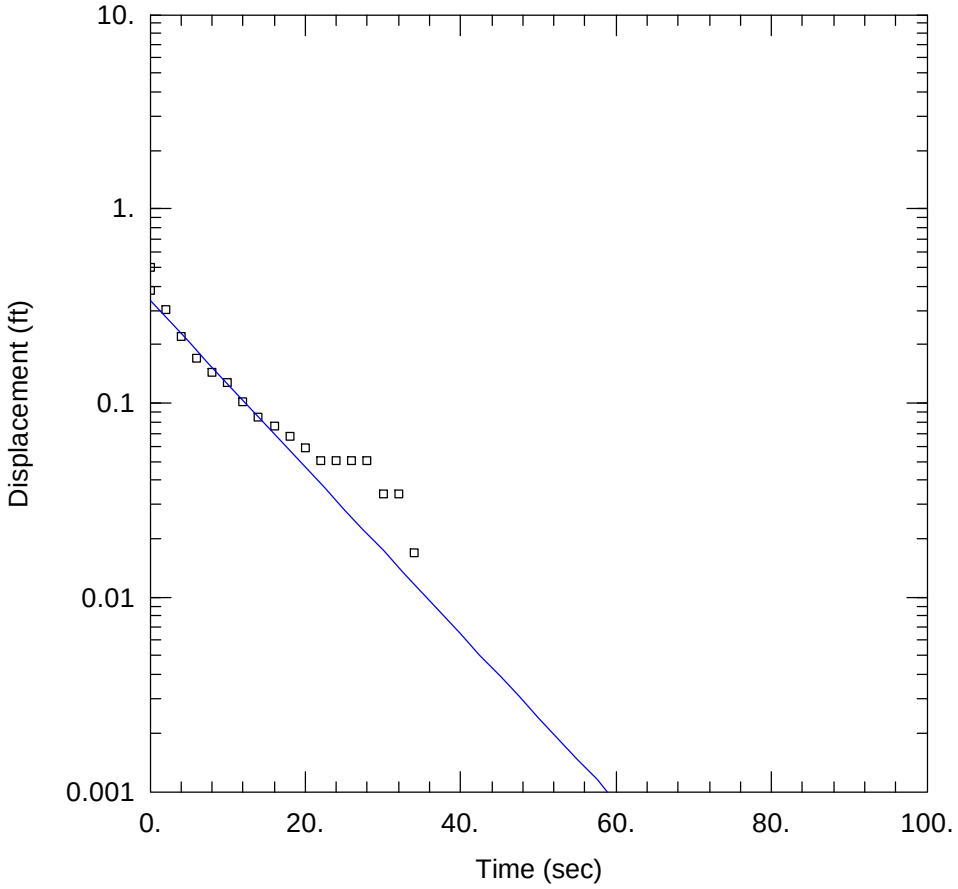
WELL DATA (MW-14A)

Initial Displacement: 0.5 ft Casing Radius: 0.167 ft
Wellbore Radius: 0.167 ft Well Skin Radius: 0.167 ft
Screen Length: 5. ft Total Well Penetration Depth: 4.8 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.01542 cm/sec y0 = 0.3126 ft



MW-14A FALLING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW-14A_3.aqt
Date: 07/13/09 Time: 10:44:33

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-14A
Test Date: March 6, 2009

AQUIFER DATA

Saturated Thickness: 15. ft Anisotropy Ratio (Kz/Kr): 1.

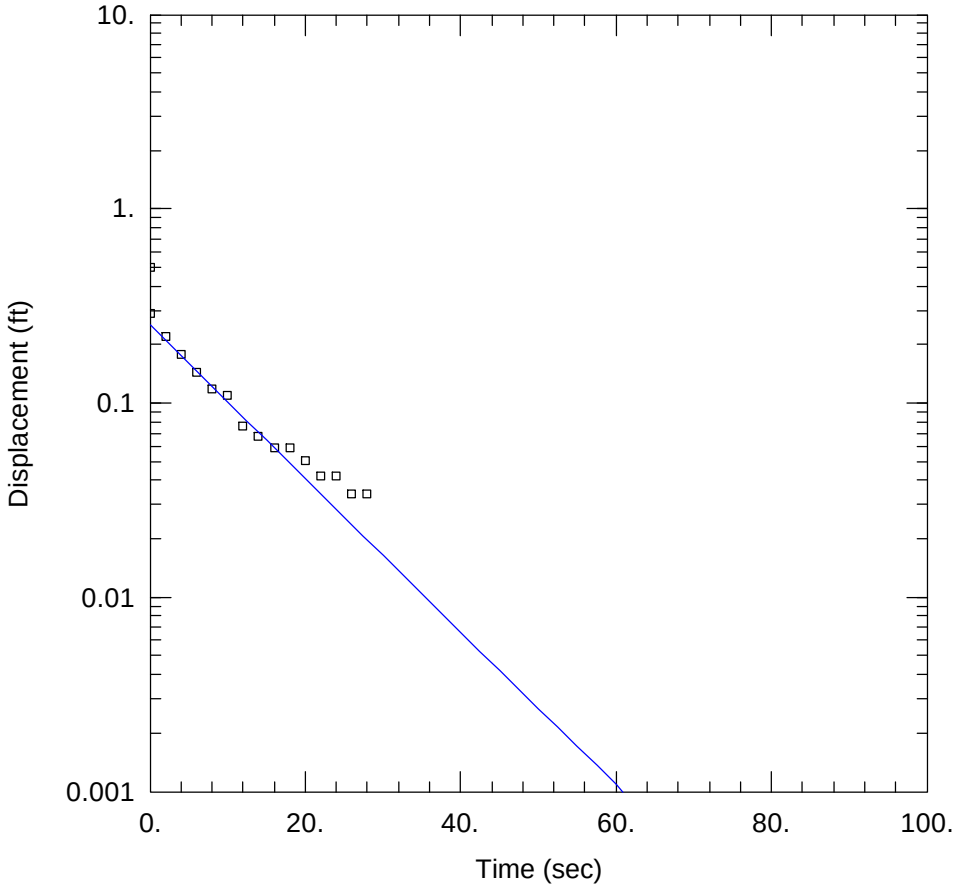
WELL DATA (MW-14A)

Initial Displacement: 0.5 ft
Wellbore Radius: 0.167 ft
Screen Length: 5. ft
Casing Radius: 0.167 ft
Well Skin Radius: 0.167 ft
Total Well Penetration Depth: 4.8 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.01813 cm/sec y0 = 0.3373 ft



MW-14A RISING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW-14A_4.aqt
Date: 07/13/09 Time: 10:45:12

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-14A
Test Date: March 6, 2009

AQUIFER DATA

Saturated Thickness: 15. ft Anisotropy Ratio (Kz/Kr): 1.

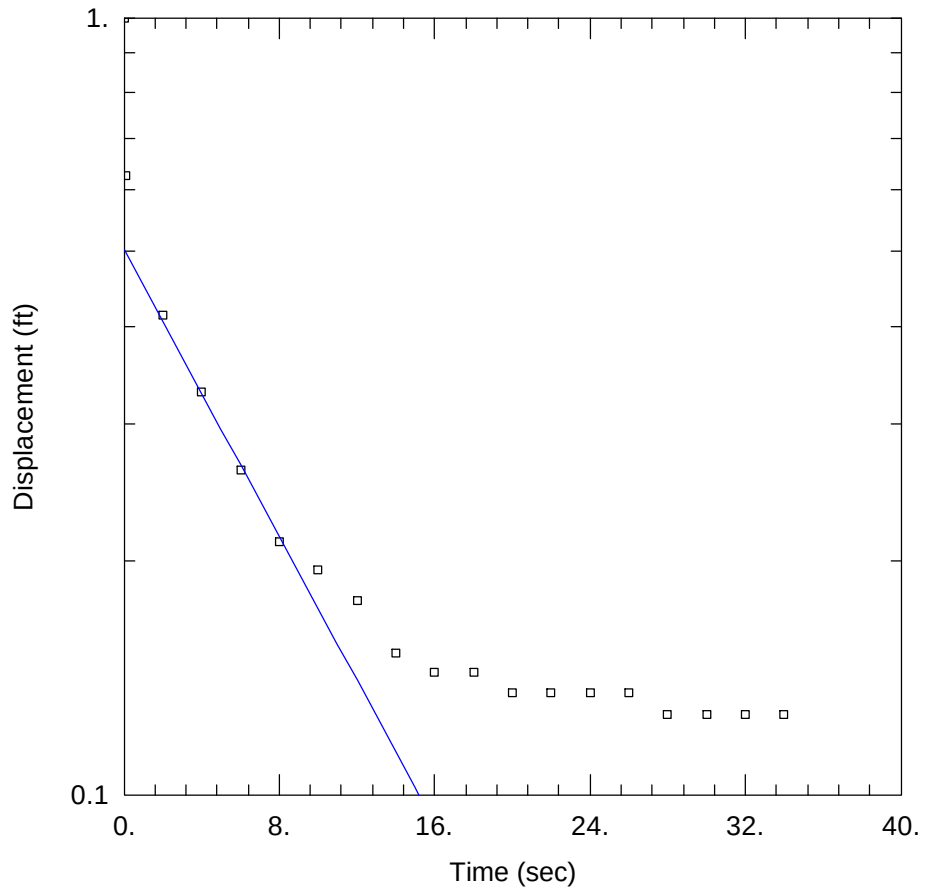
WELL DATA (MW-14A)

Initial Displacement: 0.5 ft Casing Radius: 0.167 ft
Wellbore Radius: 0.167 ft Well Skin Radius: 0.167 ft
Screen Length: 5. ft Total Well Penetration Depth: 4.8 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.01664 cm/sec y0 = 0.2507 ft



MW-15A FALLING HEAD TEST #1

Data Set: C:\Buffalo China\MW15A_1.aqt
Date: 10/06/09 Time: 11:52:54

PROJECT INFORMATION

Company: CRA
Client: Hodgson-Russ
Project: 37191
Test Location: Former Buffalo China Site
Test Well: MW-15A
Test Date: March 6, 2009

AQUIFER DATA

Saturated Thickness: 4. ft Anisotropy Ratio (Kz/Kr): 1.

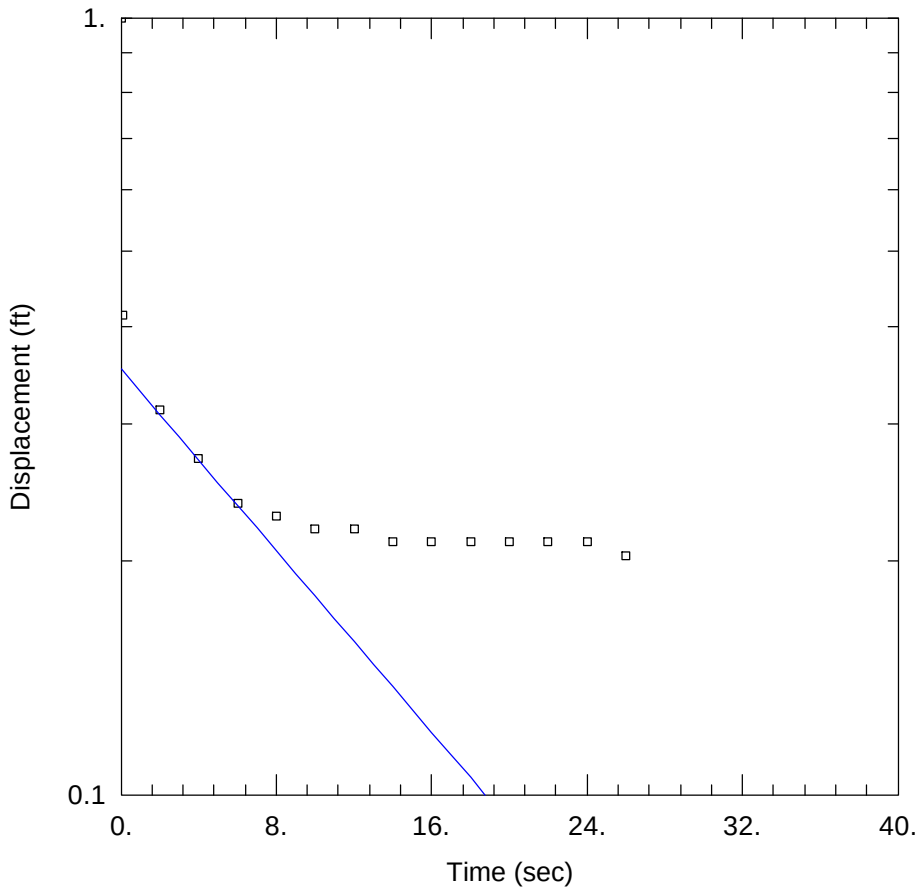
WELL DATA (MW-15A)

Initial Displacement: 1. ft
Wellbore Radius: 0.33 ft
Screen Length: 4. ft
Casing Radius: 0.33 ft
Well Skin Radius: 0.33 ft
Total Well Penetration Depth: 4. ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.07939 cm/sec y0 = 0.503 ft



MW-15A RISING HEAD TEST #1

Data Set: C:\Buffalo China\MW15A_2.aqt
Date: 10/06/09 Time: 11:52:43

PROJECT INFORMATION

Company: CRA
Client: Hodgson-Russ
Project: 37191
Test Location: Former Buffalo China Site
Test Well: MW-15A
Test Date: March 6, 2009

AQUIFER DATA

Saturated Thickness: 4. ft Anisotropy Ratio (Kz/Kr): 1.

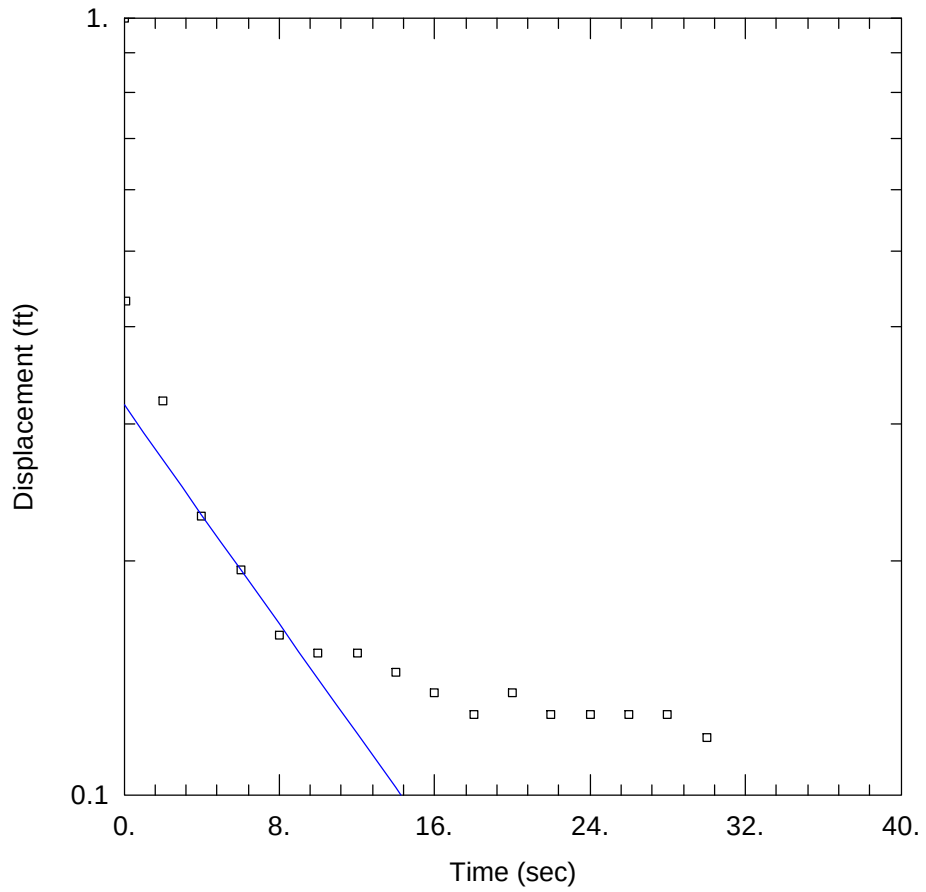
WELL DATA (MW-15A)

Initial Displacement: 1. ft
Wellbore Radius: 0.33 ft
Screen Length: 4. ft
Casing Radius: 0.33 ft
Well Skin Radius: 0.33 ft
Total Well Penetration Depth: 4. ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.05019 cm/sec y0 = 0.3526 ft



MW-15A FALLING HEAD TEST #2

Data Set: C:\Buffalo China\MW15A_3.aqt
Date: 10/06/09 Time: 11:52:32

PROJECT INFORMATION

Company: CRA
Client: Hodgson-Russ
Project: 37191
Test Location: Former Buffalo China Site
Test Well: MW-15A
Test Date: March 6, 2009

AQUIFER DATA

Saturated Thickness: 4. ft Anisotropy Ratio (Kz/Kr): 1.

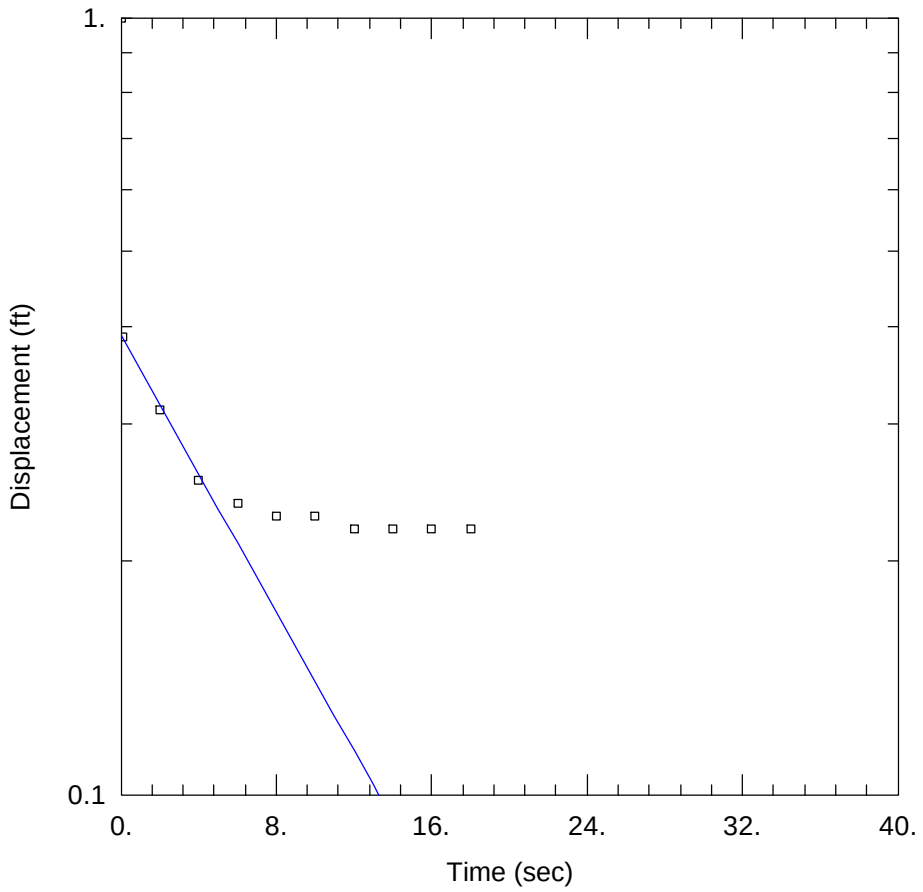
WELL DATA (MW-15A)

Initial Displacement: 1. ft
Wellbore Radius: 0.33 ft
Screen Length: 4. ft
Casing Radius: 0.33 ft
Well Skin Radius: 0.33 ft
Total Well Penetration Depth: 4. ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.06055 cm/sec y0 = 0.317 ft



MW-15A RISING HEAD TEST #2

Data Set: C:\Buffalo China\MW15A_4.aqt
Date: 10/06/09 Time: 11:53:02

PROJECT INFORMATION

Company: CRA
Client: Hodgson-Russ
Project: 37191
Test Location: Former Buffalo China Site
Test Well: MW-15A
Test Date: March 6, 2009

AQUIFER DATA

Saturated Thickness: 4. ft Anisotropy Ratio (Kz/Kr): 1.

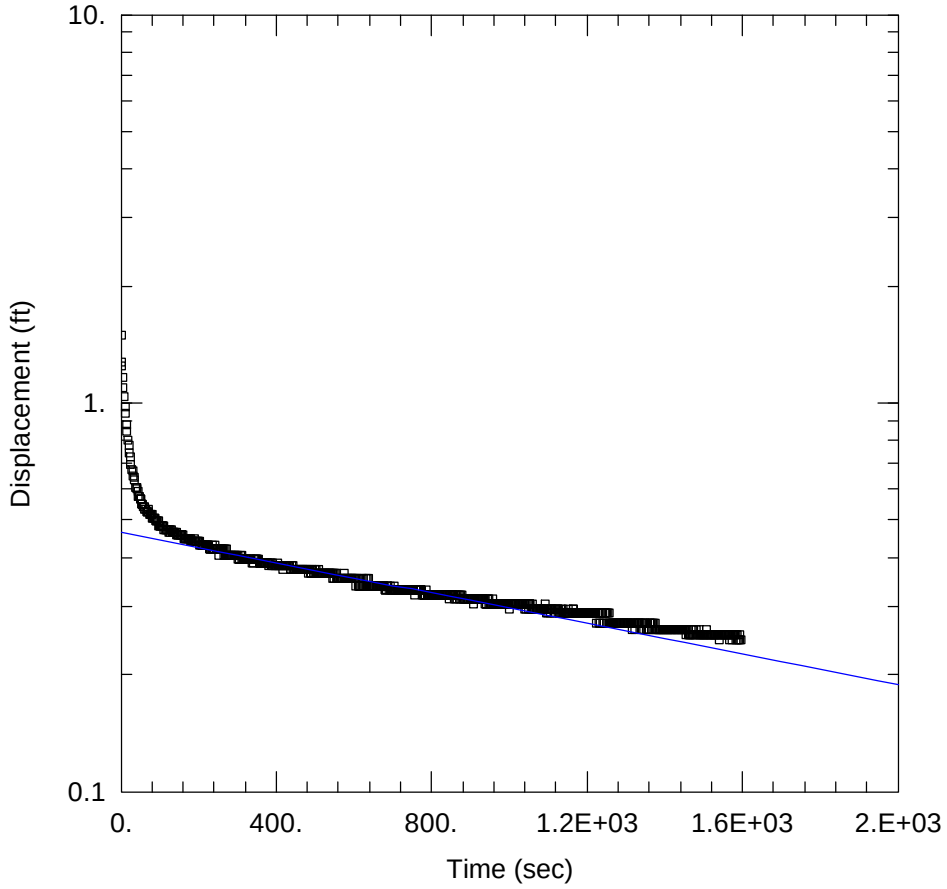
WELL DATA (MW-15A)

Initial Displacement: 1. ft
Wellbore Radius: 0.33 ft
Screen Length: 4. ft
Casing Radius: 0.33 ft
Well Skin Radius: 0.33 ft
Total Well Penetration Depth: 4. ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.07669 cm/sec y0 = 0.3901 ft



MW-18 FALLING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW-18_1.aqt
Date: 07/13/09 Time: 10:53:46

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-18
Test Date: February 10, 2009

AQUIFER DATA

Saturated Thickness: 12. ft Anisotropy Ratio (Kz/Kr): 1.

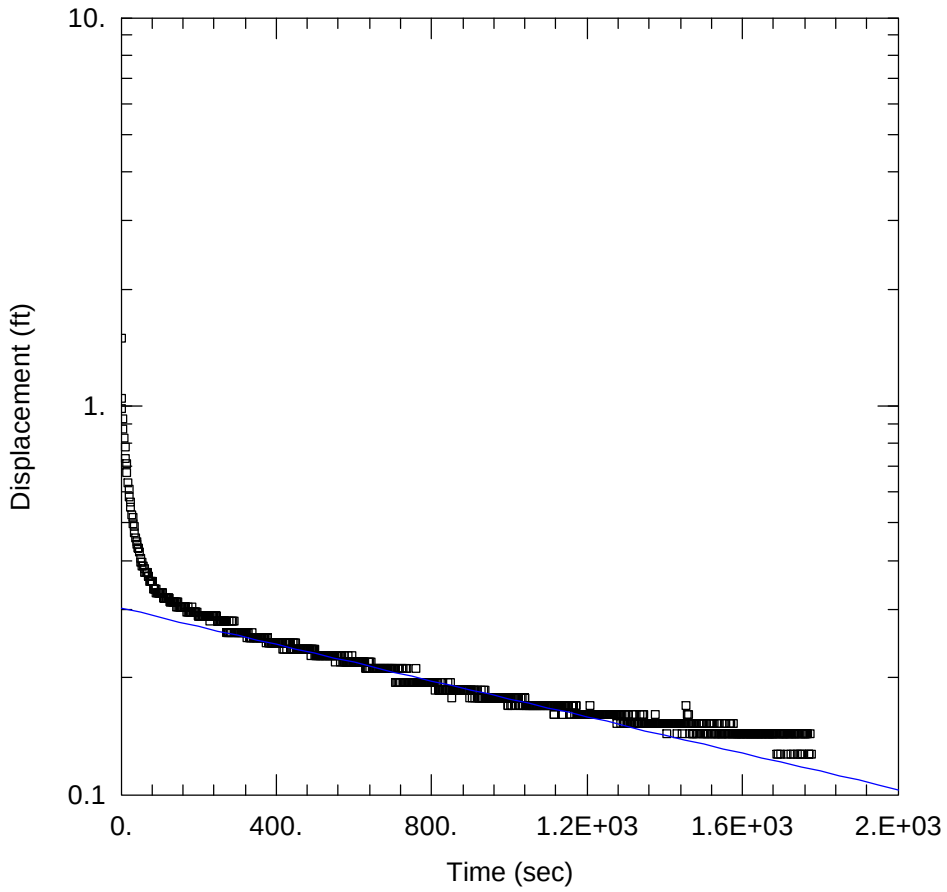
WELL DATA (MW-18)

Initial Displacement: 1.5 ft
Wellbore Radius: 0.33 ft
Screen Length: 5. ft
Casing Radius: 0.083 ft
Well Skin Radius: 0.33 ft
Total Well Penetration Depth: 3.8 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 1.465E-05 cm/sec y0 = 0.4654 ft



MW-18 RISING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW-18_2.aqt
Date: 07/13/09 Time: 10:54:33

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-18
Test Date: February 10, 2009

AQUIFER DATA

Saturated Thickness: 12. ft Anisotropy Ratio (Kz/Kr): 1.

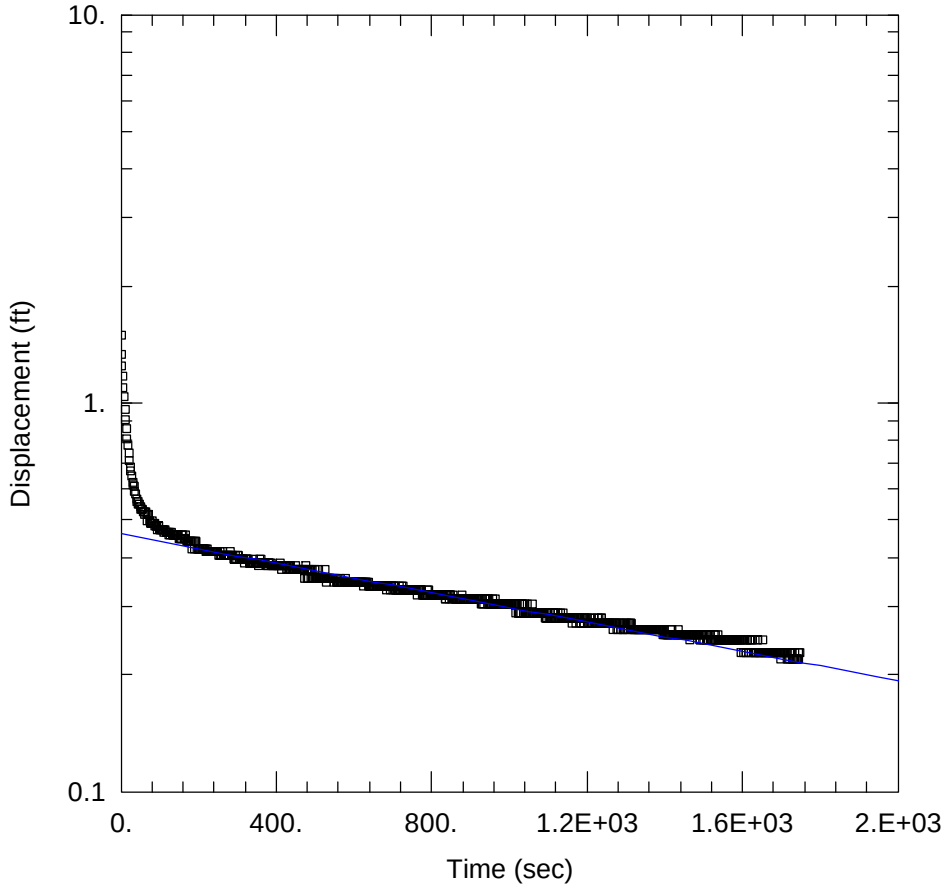
WELL DATA (MW-18)

Initial Displacement: 1.5 ft
Wellbore Radius: 0.33 ft
Screen Length: 5. ft
Casing Radius: 0.083 ft
Well Skin Radius: 0.33 ft
Total Well Penetration Depth: 3.8 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 1.741E-05 cm/sec y0 = 0.3017 ft



MW-18 FALLING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW-18_3.aqt
Date: 07/13/09 Time: 10:55:23

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-18
Test Date: February 10, 2009

AQUIFER DATA

Saturated Thickness: 12. ft Anisotropy Ratio (Kz/Kr): 1.

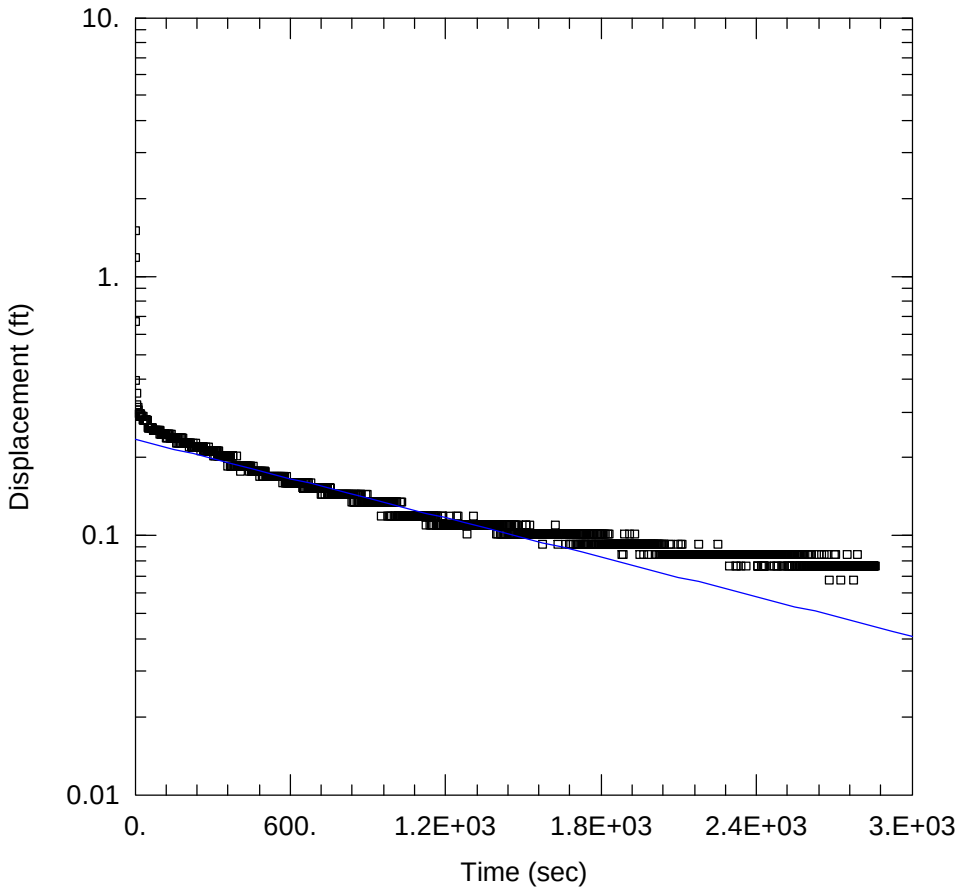
WELL DATA (MW-18)

Initial Displacement: 1.5 ft
Wellbore Radius: 0.33 ft
Screen Length: 5. ft
Casing Radius: 0.083 ft
Well Skin Radius: 0.33 ft
Total Well Penetration Depth: 3.8 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 1.41E-05 cm/sec y0 = 0.4602 ft



MW-18 RISING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW-18_4.aqt
Date: 07/13/09 Time: 10:56:02

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Test Location: 51 Hayes Place
Test Well: MW-18
Test Date: February 10, 2009

AQUIFER DATA

Saturated Thickness: 12. ft Anisotropy Ratio (Kz/Kr): 1.

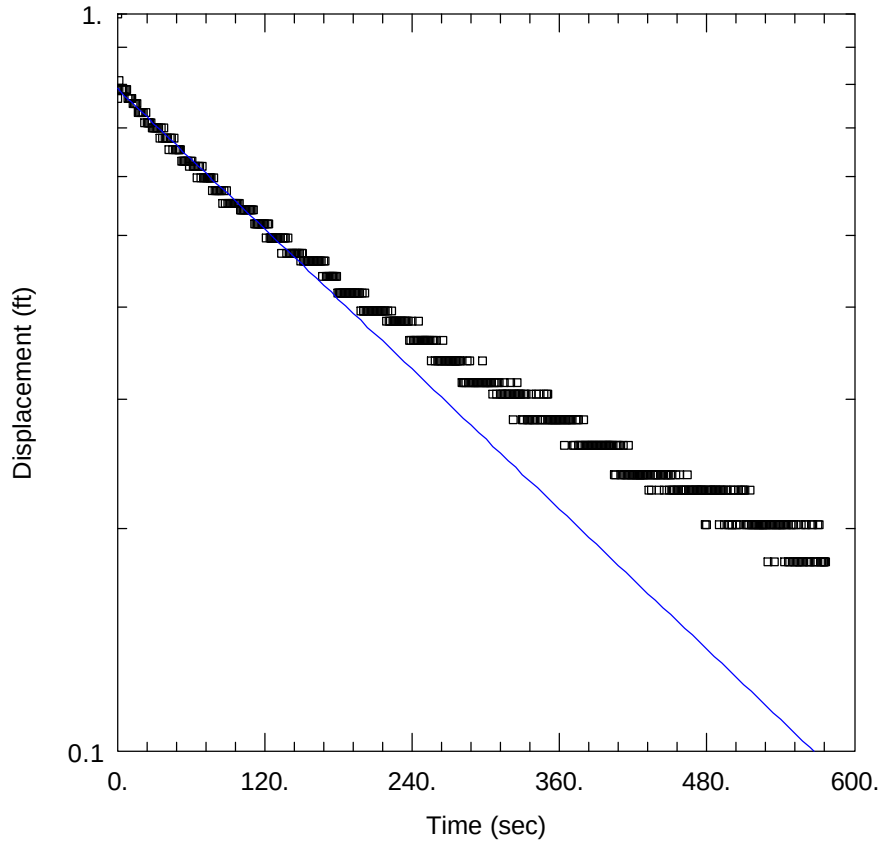
WELL DATA (MW-18)

Initial Displacement: 1.5 ft
Wellbore Radius: 0.33 ft
Screen Length: 5. ft
Casing Radius: 0.083 ft
Well Skin Radius: 0.33 ft
Total Well Penetration Depth: 3.8 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 1.891E-05 cm/sec y0 = 0.2356 ft



MW-18A FALLING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW18A_A.aqt
Date: 07/09/09 Time: 13:15:29

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-18A
Test Date: June 30, 2009

AQUIFER DATA

Saturated Thickness: 9.1 ft Anisotropy Ratio (Kz/Kr): 1.

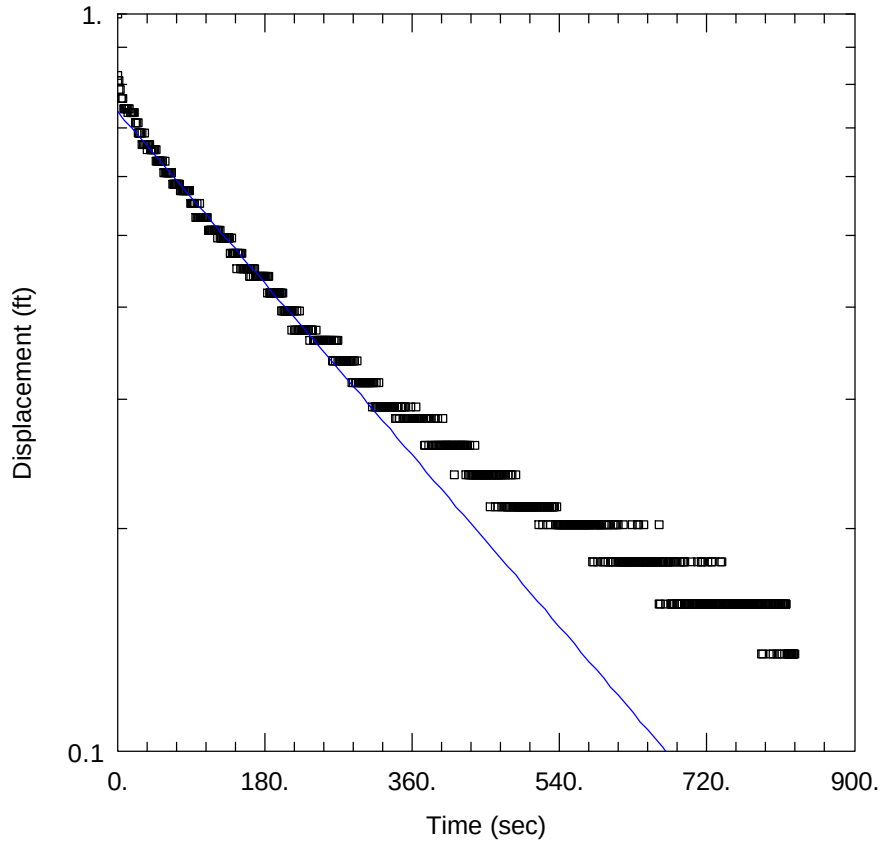
WELL DATA (MW-18A)

Initial Displacement: 1. ft
Total Well Penetration Depth: 9.1 ft
Casing Radius: 0.167 ft
Static Water Column Height: 9.1 ft
Screen Length: 5. ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.0009098 cm/sec
y0 = 0.7903 ft



MW-18A RISING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW18A_B.aqt
Date: 07/09/09 Time: 13:16:29

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-18A
Test Date: June 30, 2009

AQUIFER DATA

Saturated Thickness: 9.1 ft Anisotropy Ratio (Kz/Kr): 1.

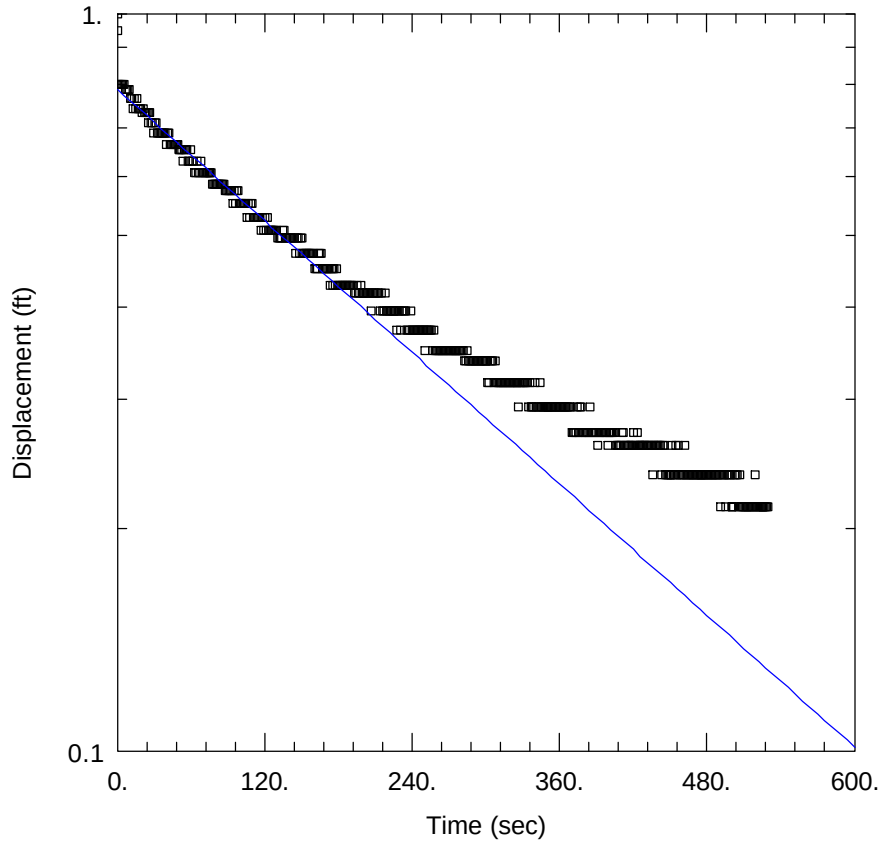
WELL DATA (MW-18A)

Initial Displacement: 1. ft
Total Well Penetration Depth: 9.1 ft
Casing Radius: 0.167 ft
Static Water Column Height: 9.1 ft
Screen Length: 5. ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.0007438 cm/sec
y0 = 0.7368 ft



MW-18A FALLING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW18A_C.aqt
Date: 07/09/09 Time: 13:17:31

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-18A
Test Date: June 30, 2009

AQUIFER DATA

Saturated Thickness: 9.1 ft Anisotropy Ratio (Kz/Kr): 1.

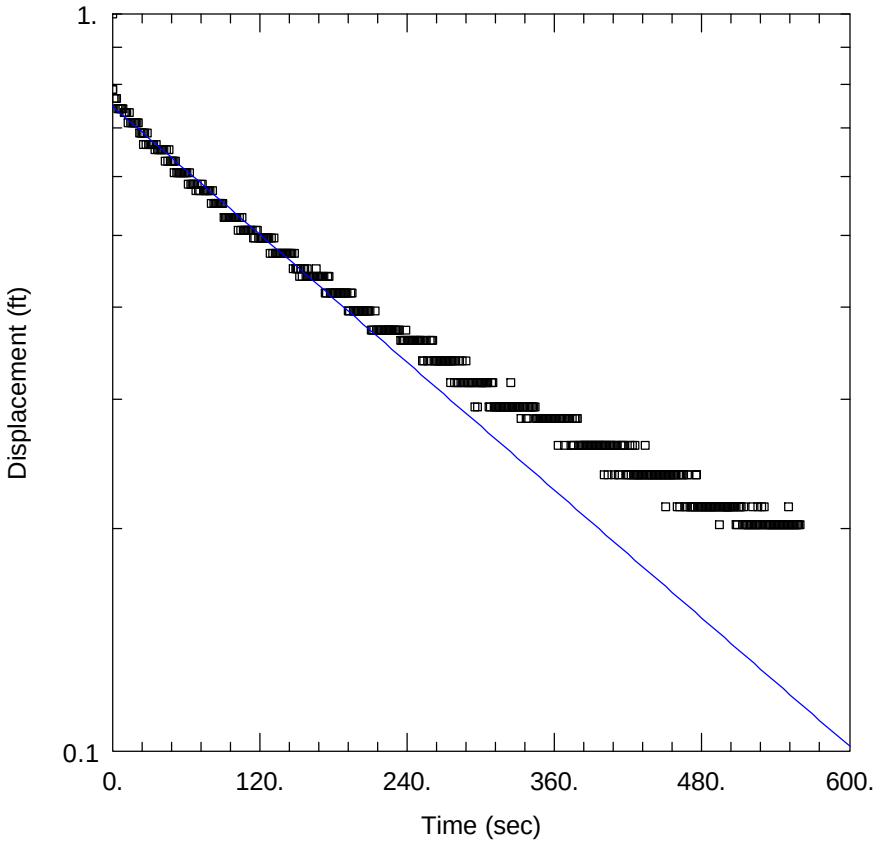
WELL DATA (MW-18A)

Initial Displacement: 1. ft
Total Well Penetration Depth: 9.1 ft
Casing Radius: 0.167 ft
Static Water Column Height: 9.1 ft
Screen Length: 5. ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.000854 cm/sec
y0 = 0.7893 ft



MW-18A RISING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW18A_D.aqt
Date: 07/09/09 Time: 13:18:32

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-18A
Test Date: June 30, 2009

AQUIFER DATA

Saturated Thickness: 9.1 ft Anisotropy Ratio (Kz/Kr): 1.

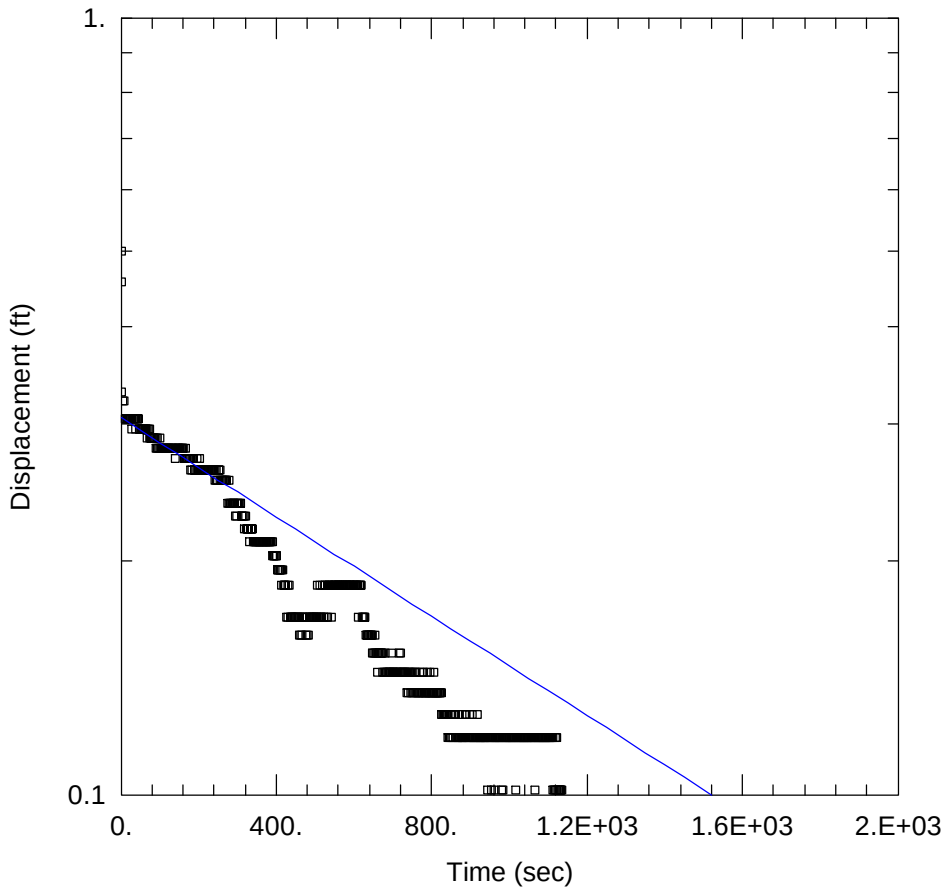
WELL DATA (MW-18A)

Initial Displacement: 1. ft
Total Well Penetration Depth: 9.1 ft
Casing Radius: 0.167 ft
Static Water Column Height: 9.1 ft
Screen Length: 5. ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.0008307 cm/sec
y0 = 0.7489 ft



MW-19 FALLING HEAD TEST #1

Data Set: C:\Buffalo China\MW19_A.aqt
Date: 10/06/09 Time: 10:38:04

PROJECT INFORMATION

Company: CRA
Client: Hodgson-Russ
Project: 37191
Test Location: Former Buffalo China Site
Test Well: MW-19
Test Date: August 5, 2009

AQUIFER DATA

Saturated Thickness: 5.9 ft Anisotropy Ratio (Kz/Kr): 1.

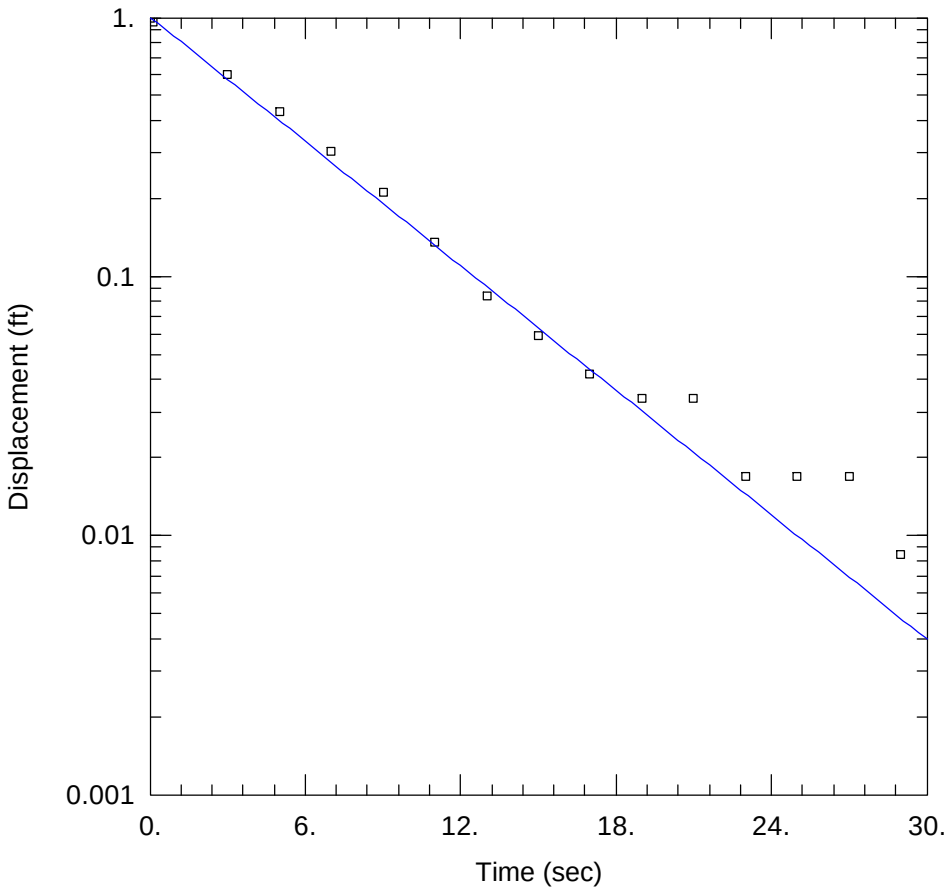
WELL DATA (MW-19)

Initial Displacement: 0.5 ft
Wellbore Radius: 0.33 ft
Screen Length: 5. ft
Casing Radius: 0.083 ft
Well Skin Radius: 0.33 ft
Total Well Penetration Depth: 5.9 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 3.209E-05 cm/sec y0 = 0.3053 ft



MW-19A FALLING HEAD TEST #1

Data Set: C:\Buffalo China\MW19A_A.aqt
Date: 10/06/09 Time: 10:42:05

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-19A
Test Date: August 5, 2009

AQUIFER DATA

Saturated Thickness: 10.3 ft Anisotropy Ratio (Kz/Kr): 1.

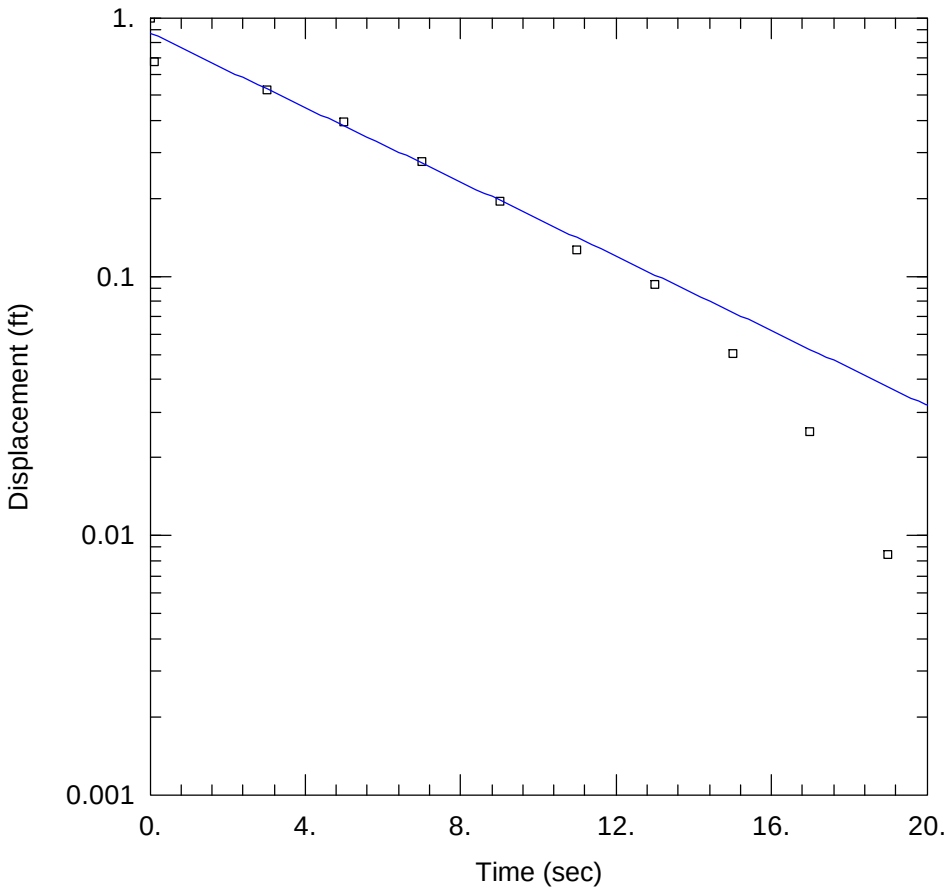
WELL DATA (MW-19A)

Initial Displacement: 1. ft Static Water Column Height: 10.3 ft
Total Well Penetration Depth: 19.2 ft Screen Length: 17. ft
Casing Radius: 0.167 ft Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.02706 cm/sec y0 = 1.006 ft



MW-19A RISING HEAD TEST #1

Data Set: C:\Buffalo China\MW19A_B.aqt
Date: 10/06/09 Time: 10:41:55

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-19A
Test Date: August 5, 2009

AQUIFER DATA

Saturated Thickness: 10.3 ft Anisotropy Ratio (Kz/Kr): 1.

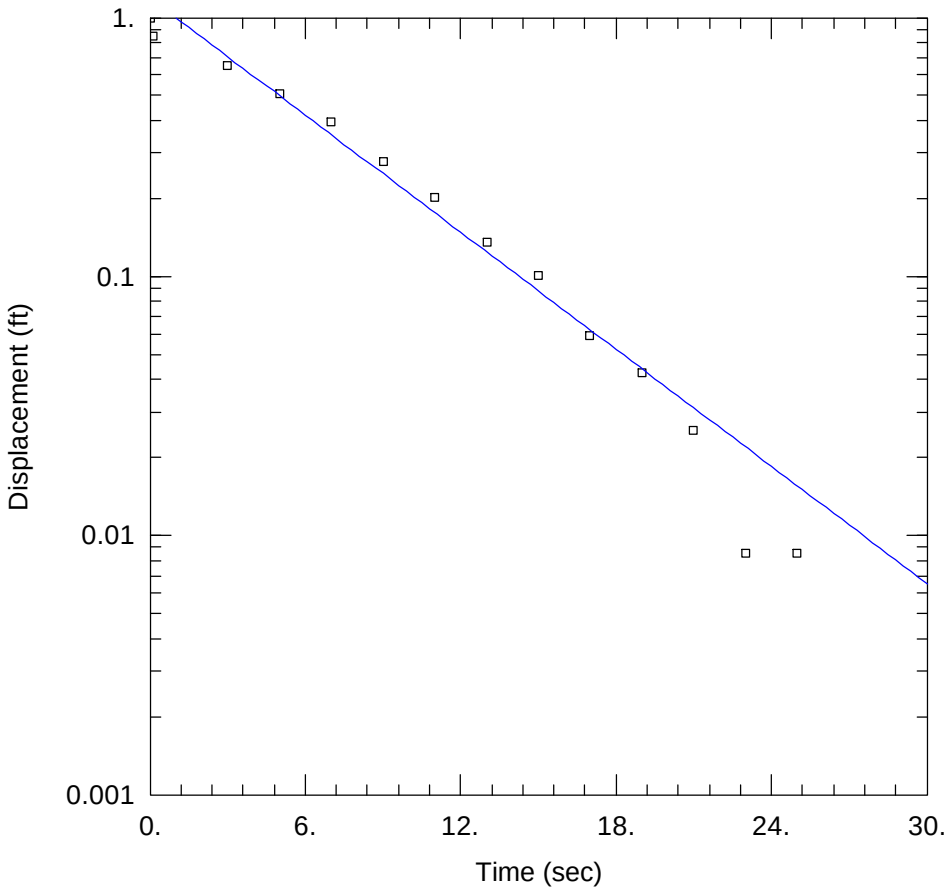
WELL DATA (MW-19A)

Initial Displacement: 1. ft
Total Well Penetration Depth: 19.2 ft
Casing Radius: 0.167 ft
Static Water Column Height: 10.3 ft
Screen Length: 17. ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.02428 cm/sec
y0 = 0.8721 ft



MW-19A FALLING HEAD TEST #2

Data Set: C:\Buffalo China\MW19A_C.aqt
Date: 10/06/09 Time: 10:41:38

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-19A
Test Date: August 5, 2009

AQUIFER DATA

Saturated Thickness: 10.3 ft Anisotropy Ratio (Kz/Kr): 1.

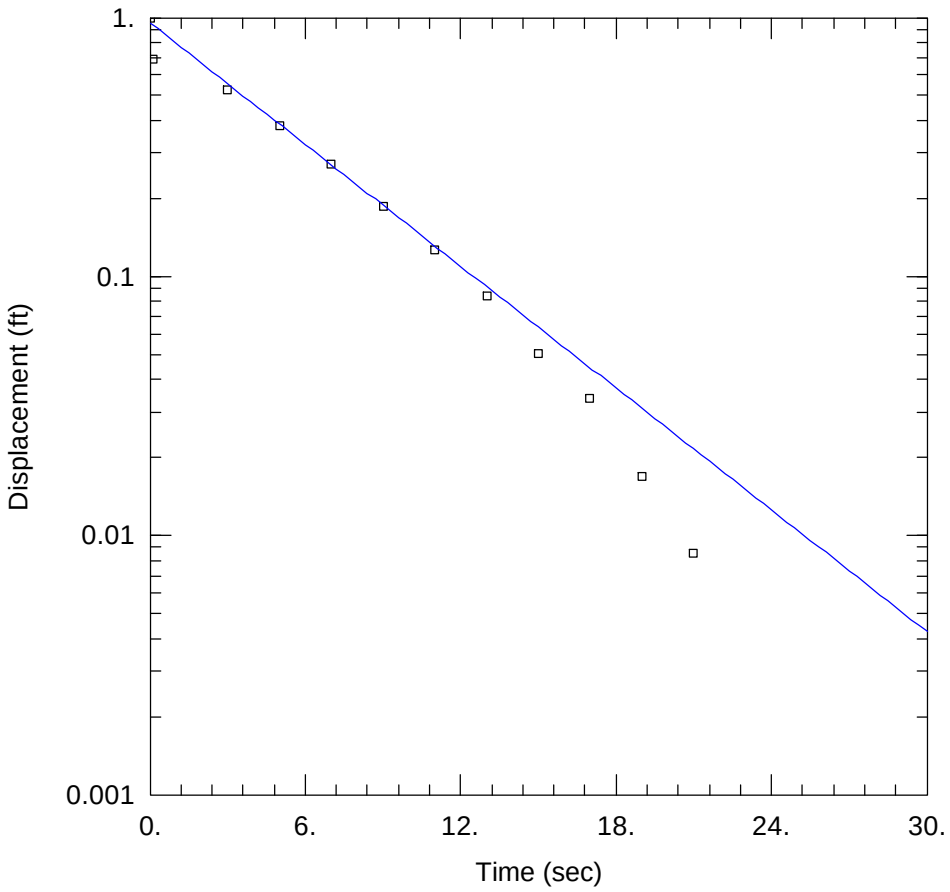
WELL DATA (MW-19A)

Initial Displacement: 1. ft
Total Well Penetration Depth: 19.2 ft
Casing Radius: 0.167 ft
Static Water Column Height: 10.3 ft
Screen Length: 17. ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.02545 cm/sec
y0 = 1.189 ft



MW-19A RISING HEAD TEST #2

Data Set: C:\Buffalo China\MW19A_D.aqt
Date: 10/06/09 Time: 10:41:23

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-19A
Test Date: August 5, 2009

AQUIFER DATA

Saturated Thickness: 10.3 ft Anisotropy Ratio (Kz/Kr): 1.

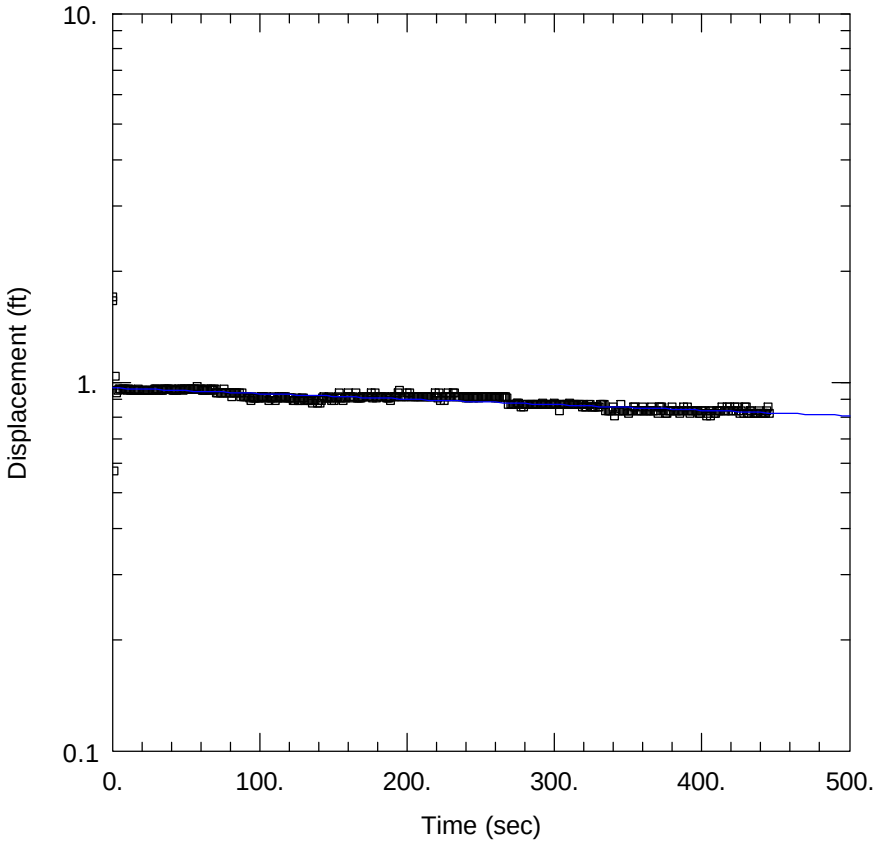
WELL DATA (MW-19A)

Initial Displacement: 1. ft
Total Well Penetration Depth: 19.2 ft
Casing Radius: 0.167 ft
Static Water Column Height: 10.3 ft
Screen Length: 17. ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.02647 cm/sec
y0 = 0.9553 ft



MW-20 FALLING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW20_A.aqt
Date: 07/09/09 Time: 13:22:16

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-20
Test Date: June 30, 2009

AQUIFER DATA

Saturated Thickness: 6.6 ft Anisotropy Ratio (Kz/Kr): 1.

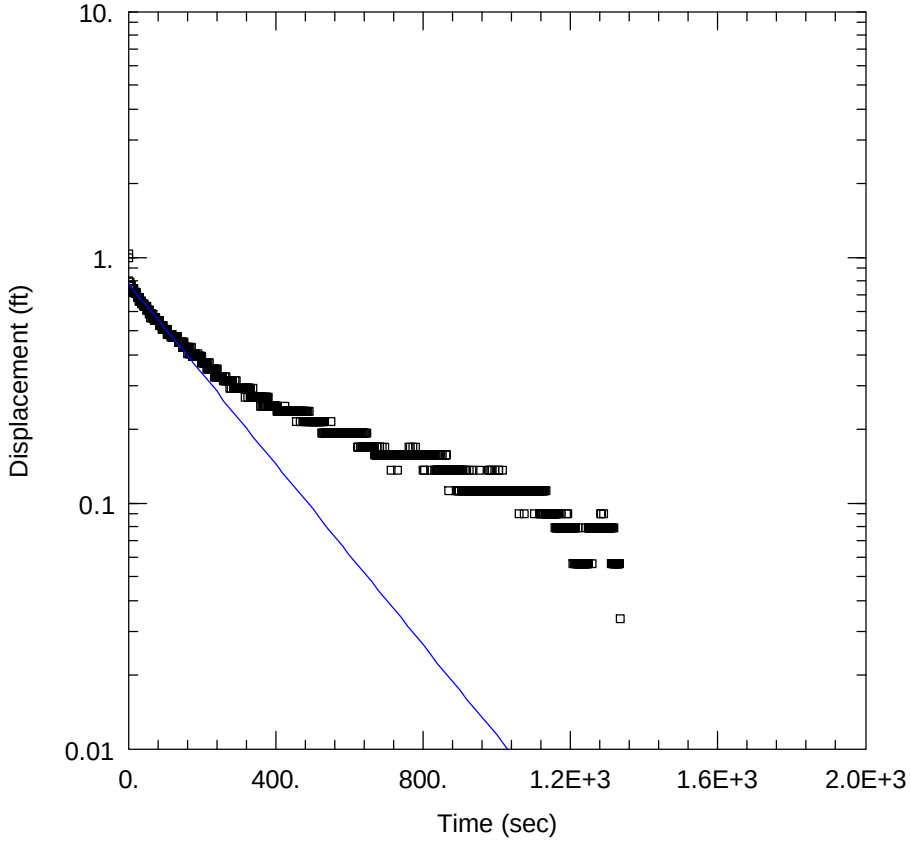
WELL DATA (MW-20)

Initial Displacement: 1.7 ft
Total Well Penetration Depth: 6.6 ft
Casing Radius: 0.083 ft
Static Water Column Height: 6.6 ft
Screen Length: 5. ft
Well Radius: 0.33 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 1.564E-5 cm/sec
y0 = 0.9634 ft



MW-20A FALLING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW20A_A.aqt
Date: 07/09/09 Time: 09:51:04

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-20A
Test Date: June 29, 2009

AQUIFER DATA

Saturated Thickness: 16.6 ft Anisotropy Ratio (Kz/Kr): 1.

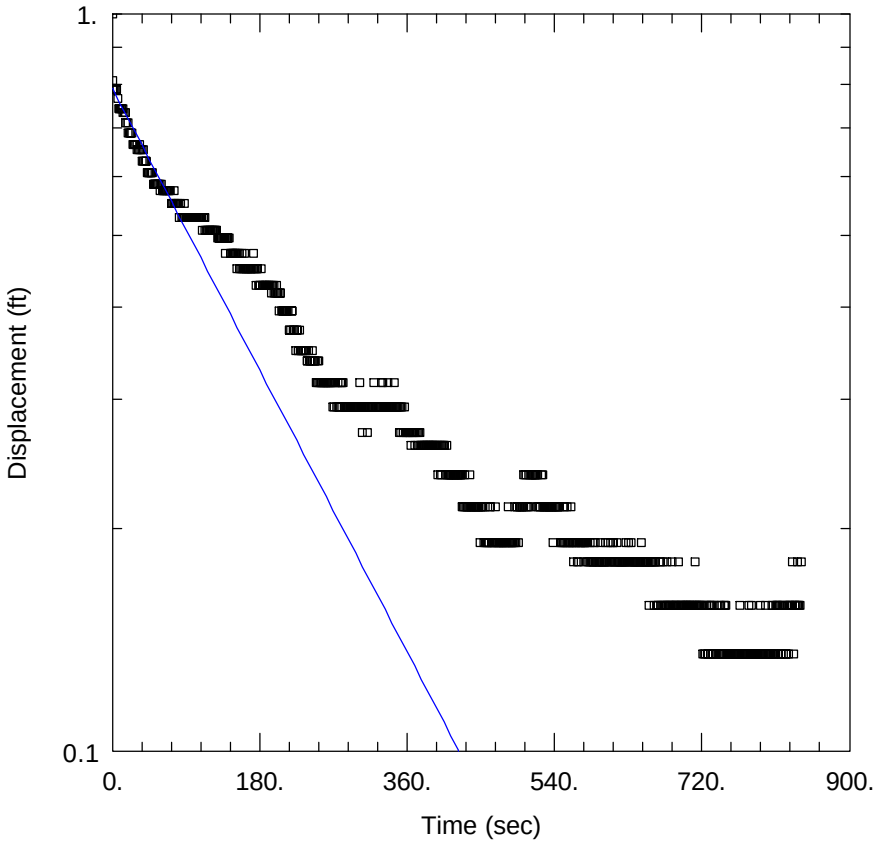
WELL DATA (MW-20A)

Initial Displacement: 1. ft
Total Well Penetration Depth: 16.6 ft
Casing Radius: 0.167 ft
Static Water Column Height: 16.6 ft
Screen Length: 9.4 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.0006611 cm/sec
y0 = 0.7855 ft



MW-20A RISING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW20A_B.aqt
Date: 07/09/09 Time: 09:52:11

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-20A
Test Date: June 29, 2009

AQUIFER DATA

Saturated Thickness: 16.6 ft Anisotropy Ratio (Kz/Kr): 1.

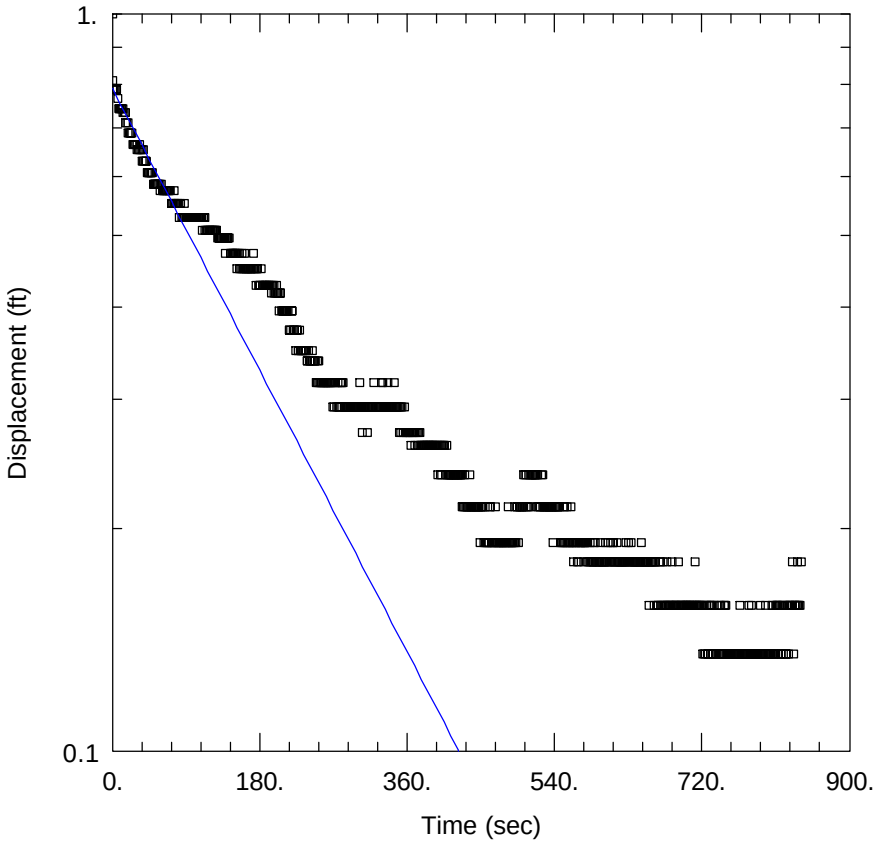
WELL DATA (MW-20A)

Initial Displacement: 1. ft
Total Well Penetration Depth: 16.6 ft
Casing Radius: 0.167 ft
Static Water Column Height: 16.6 ft
Screen Length: 9.4 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.0007617 cm/sec
y0 = 0.7905 ft



MW-20A RISING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW20A_B.aqt
Date: 07/09/09 Time: 09:52:11

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-20A
Test Date: June 29, 2009

AQUIFER DATA

Saturated Thickness: 16.6 ft Anisotropy Ratio (Kz/Kr): 1.

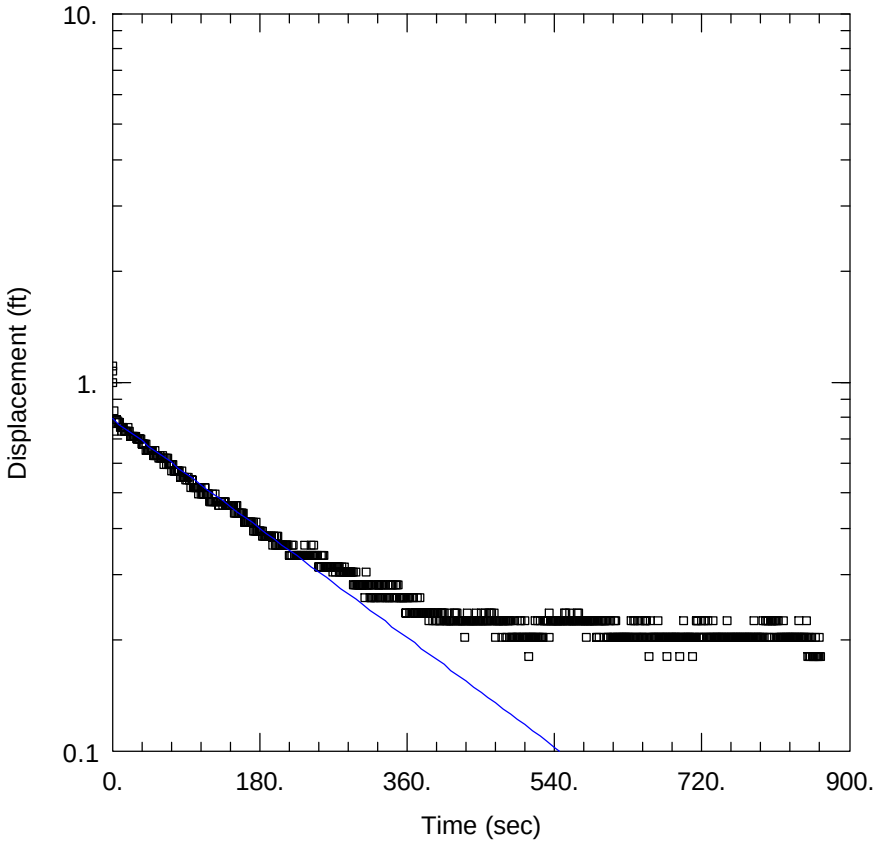
WELL DATA (MW-20A)

Initial Displacement: 1. ft
Total Well Penetration Depth: 16.6 ft
Casing Radius: 0.167 ft
Static Water Column Height: 16.6 ft
Screen Length: 9.4 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.0007617 cm/sec
y0 = 0.7905 ft



MW-20A FALLING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW20A_C.aqt
Date: 07/09/09 Time: 09:53:22

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-20A
Test Date: June 29, 2009

AQUIFER DATA

Saturated Thickness: 16.6 ft Anisotropy Ratio (Kz/Kr): 1.

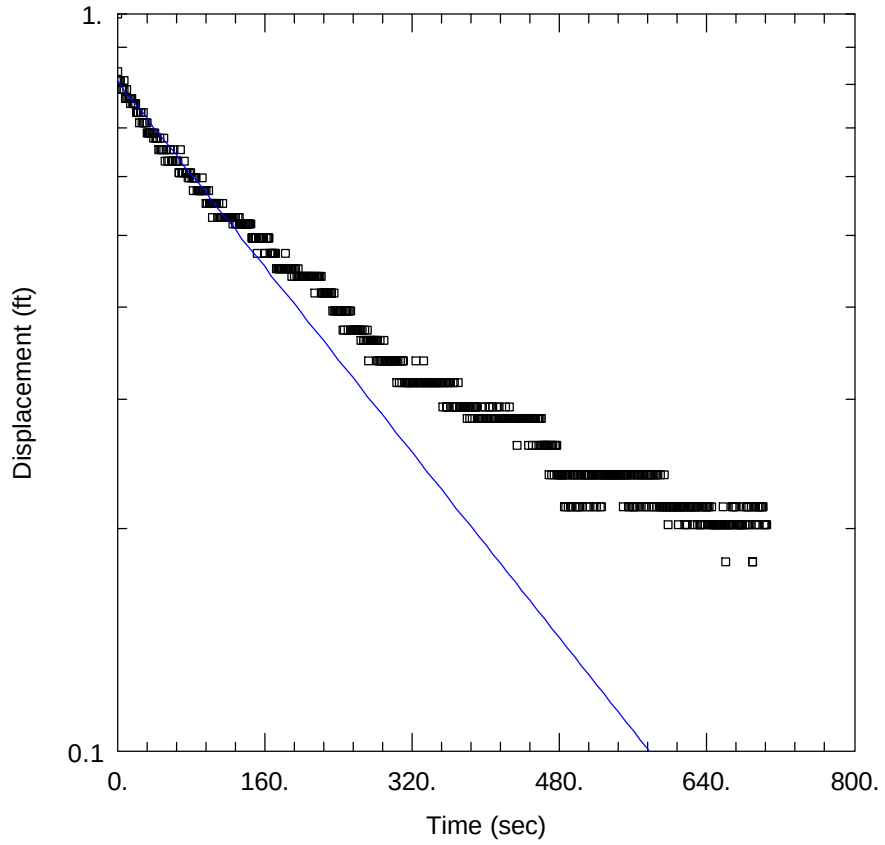
WELL DATA (MW-20A)

Initial Displacement: 1. ft
Total Well Penetration Depth: 16.6 ft
Casing Radius: 0.167 ft
Static Water Column Height: 16.6 ft
Screen Length: 9.4 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.0005915 cm/sec
y0 = 0.7943 ft



MW-20A RISING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW20A_D.aqt
Date: 07/09/09 Time: 09:54:27

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-20A
Test Date: June 29, 2009

AQUIFER DATA

Saturated Thickness: 16.6 ft Anisotropy Ratio (Kz/Kr): 1.

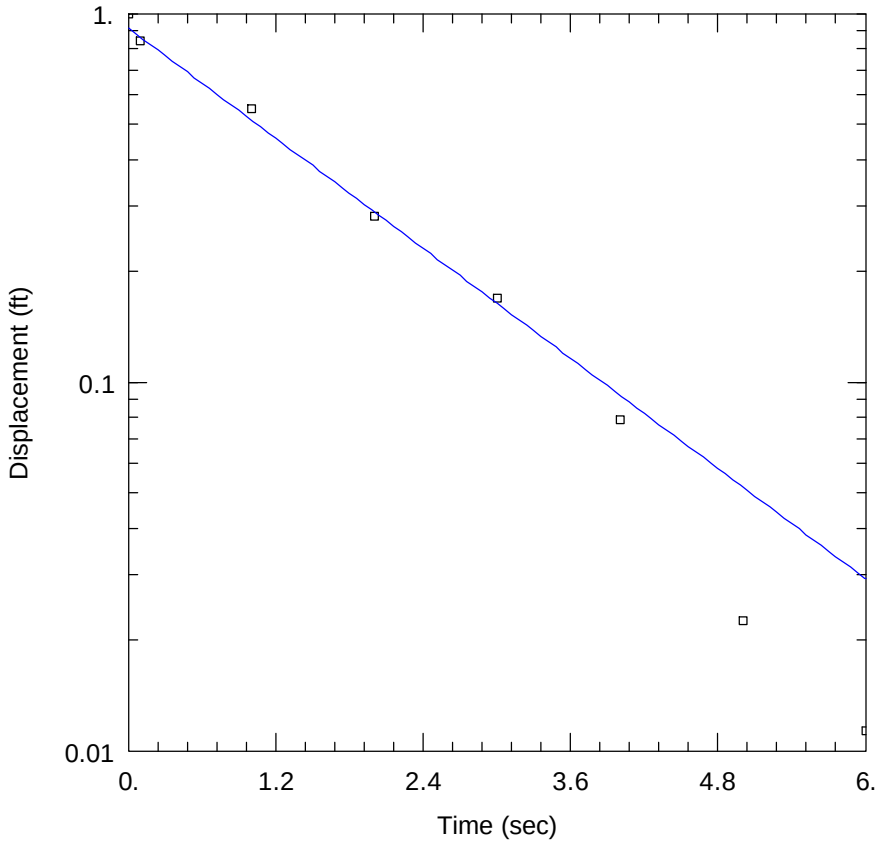
WELL DATA (MW-20A)

Initial Displacement: 1. ft
Total Well Penetration Depth: 16.6 ft
Casing Radius: 0.167 ft
Static Water Column Height: 16.6 ft
Screen Length: 9.4 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.0005651 cm/sec
y0 = 0.8097 ft



MW-21A FALLING HEAD TEST #1

Data Set: C:\Buffalo China\MW21A_A.aqt
Date: 07/09/09 Time: 09:05:04

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-21A
Test Date: June 24, 2009

AQUIFER DATA

Saturated Thickness: 14.4 ft Anisotropy Ratio (Kz/Kr): 1.

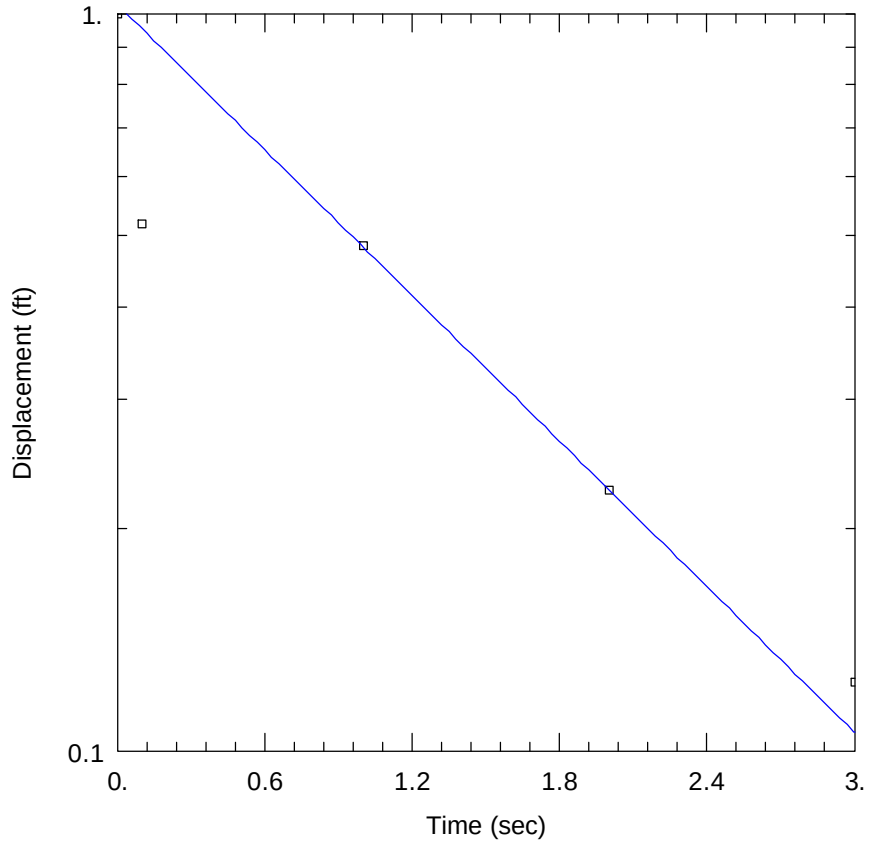
WELL DATA (MW-21A)

Initial Displacement: 1. ft
Total Well Penetration Depth: 15.5 ft
Casing Radius: 0.167 ft
Static Water Column Height: 14.4 ft
Screen Length: 15.5 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.05877 cm/sec
y0 = 0.9127 ft



MW-21A RISING HEAD TEST #1

Data Set: C:\Buffalo China\MW21A_B.aqt
Date: 07/09/09 Time: 09:15:43

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-21A
Test Date: June 24, 2009

AQUIFER DATA

Saturated Thickness: 14.4 ft Anisotropy Ratio (Kz/Kr): 1.

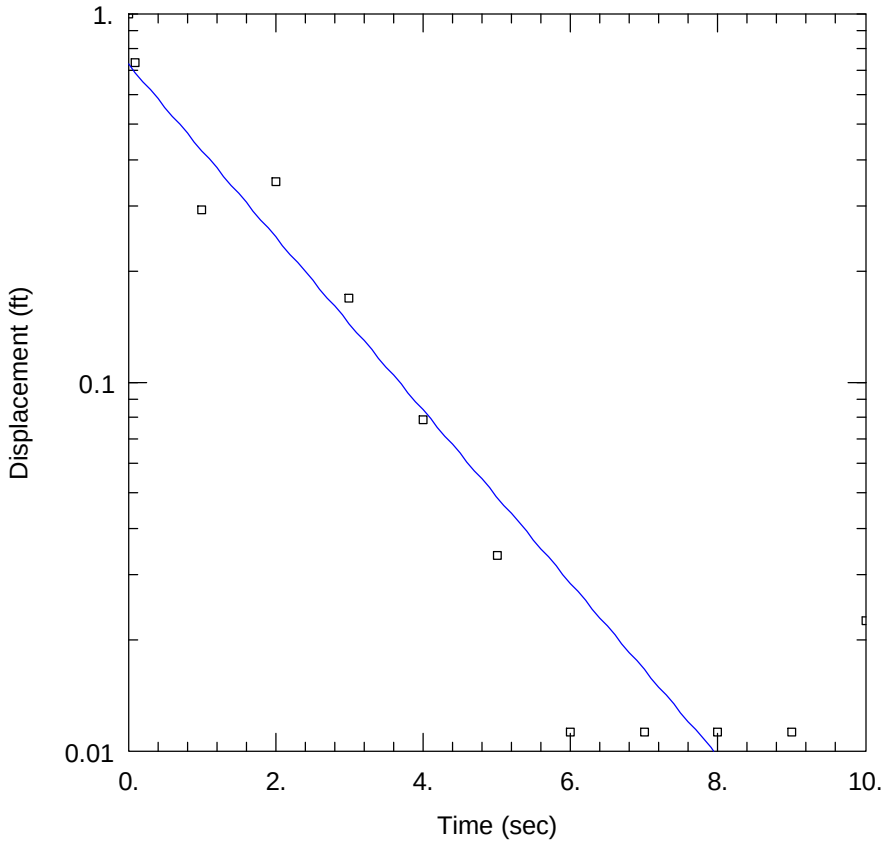
WELL DATA (MW-21A)

Initial Displacement: 1. ft
Total Well Penetration Depth: 15.5 ft
Casing Radius: 0.167 ft
Static Water Column Height: 14.4 ft
Screen Length: 15.5 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.07773 cm/sec
y0 = 1.029 ft



MW-21A FALLING HEAD TEST #2

Data Set: C:\Buffalo China\MW21A_C.aqt
Date: 07/09/09 Time: 09:17:53

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-21A
Test Date: June 24, 2009

AQUIFER DATA

Saturated Thickness: 14.4 ft Anisotropy Ratio (Kz/Kr): 1.

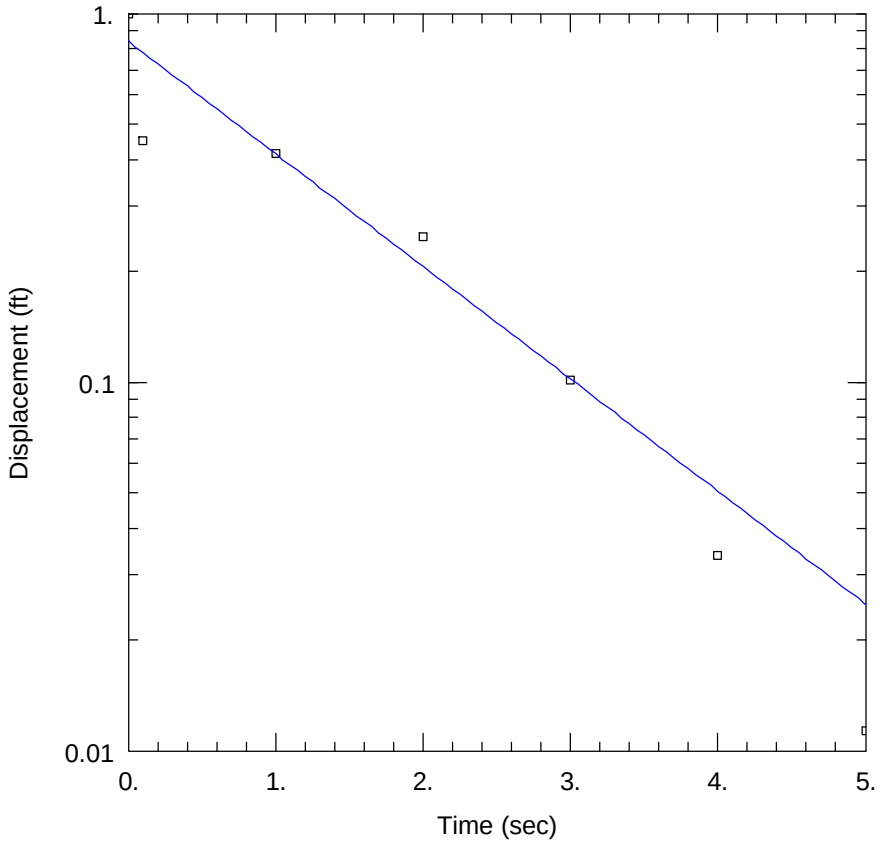
WELL DATA (MW-21A)

Initial Displacement: 1. ft
Total Well Penetration Depth: 15.5 ft
Casing Radius: 0.167 ft
Static Water Column Height: 14.4 ft
Screen Length: 15.5 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.05541 cm/sec
y0 = 0.7289 ft



MW-21A RISING HEAD TEST #2

Data Set: C:\Buffalo China\MW21A_D.aqt
Date: 07/09/09 Time: 09:19:52

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-21A
Test Date: June 24, 2009

AQUIFER DATA

Saturated Thickness: 14.4 ft Anisotropy Ratio (Kz/Kr): 1.

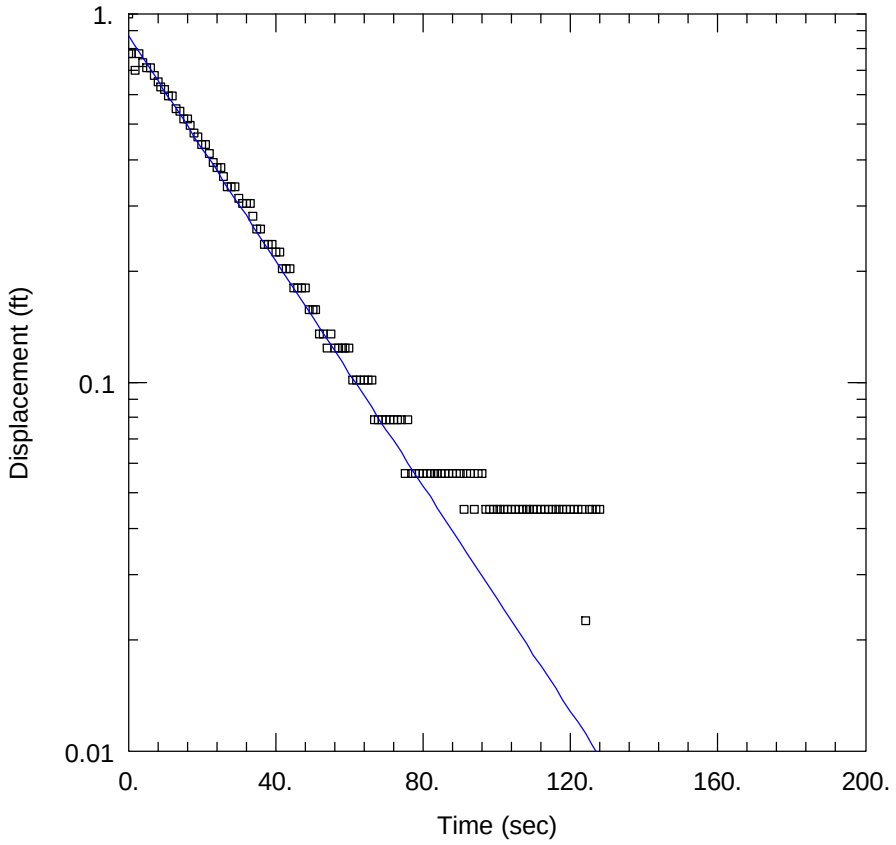
WELL DATA (MW-21A)

Initial Displacement: 1. ft
Total Well Penetration Depth: 15.5 ft
Casing Radius: 0.167 ft
Static Water Column Height: 14.4 ft
Screen Length: 15.5 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.07205 cm/sec
y0 = 0.8398 ft



MW-22A FALLING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW22A_A.aqt
Date: 07/09/09 Time: 11:20:13

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-22A
Test Date: June 30, 2009

AQUIFER DATA

Saturated Thickness: 26.4 ft Anisotropy Ratio (Kz/Kr): 1.

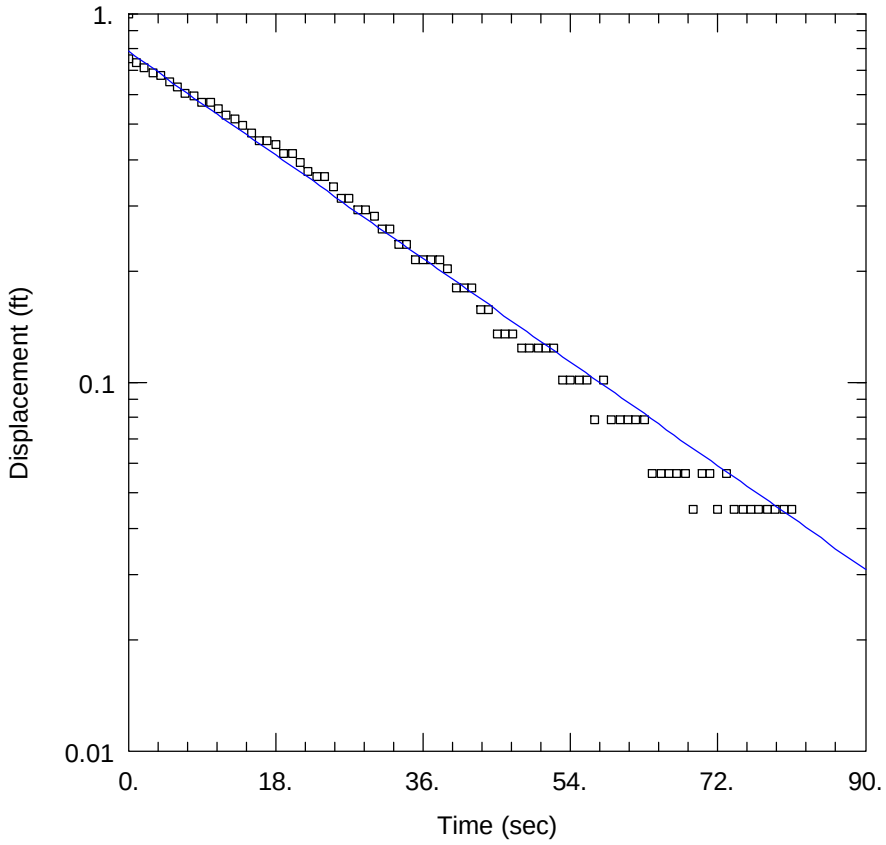
WELL DATA (MW-22A)

Initial Displacement: 1. ft
Total Well Penetration Depth: 26.4 ft
Casing Radius: 0.167 ft
Static Water Column Height: 26.4 ft
Screen Length: 20.6 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.002813 cm/sec
y0 = 0.8717 ft



MW-22A RISING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW22A_B.aqt
Date: 07/09/09 Time: 11:21:46

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-22A
Test Date: June 30, 2009

AQUIFER DATA

Saturated Thickness: 26.4 ft Anisotropy Ratio (Kz/Kr): 1.

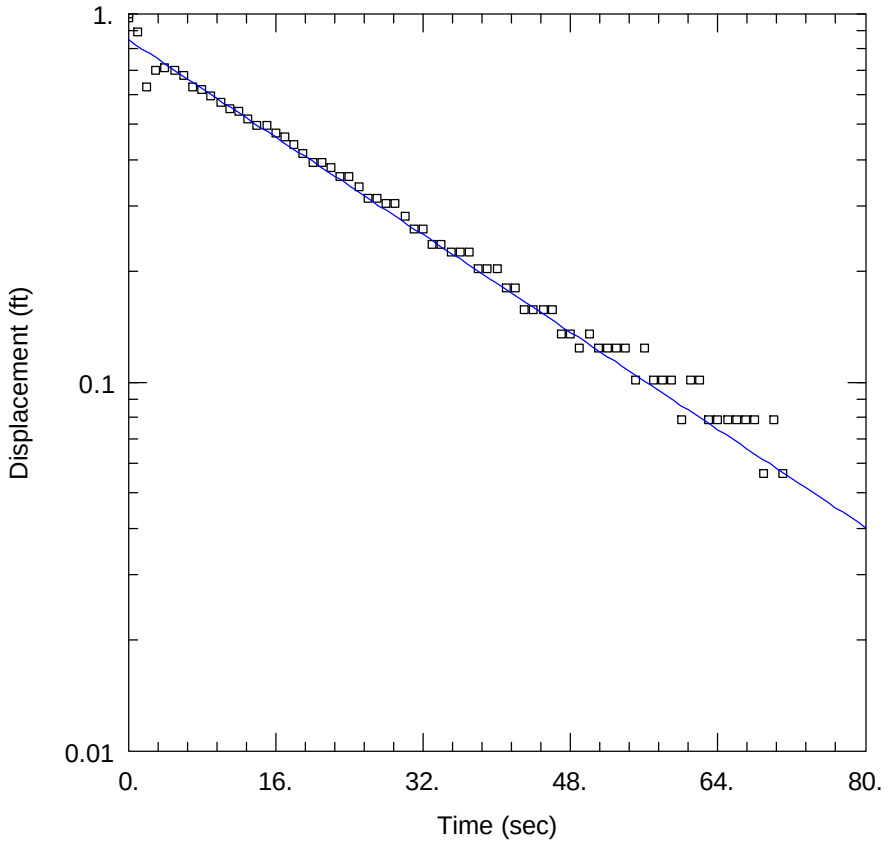
WELL DATA (MW-22A)

Initial Displacement: 1. ft
Total Well Penetration Depth: 26.4 ft
Casing Radius: 0.167 ft
Static Water Column Height: 26.4 ft
Screen Length: 20.6 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.002873 cm/sec
y0 = 0.7884 ft



MW-22A FALLING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW22A_C.aqt
Date: 07/09/09 Time: 11:22:46

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-22A
Test Date: June 30, 2009

AQUIFER DATA

Saturated Thickness: 26.4 ft Anisotropy Ratio (Kz/Kr): 1.

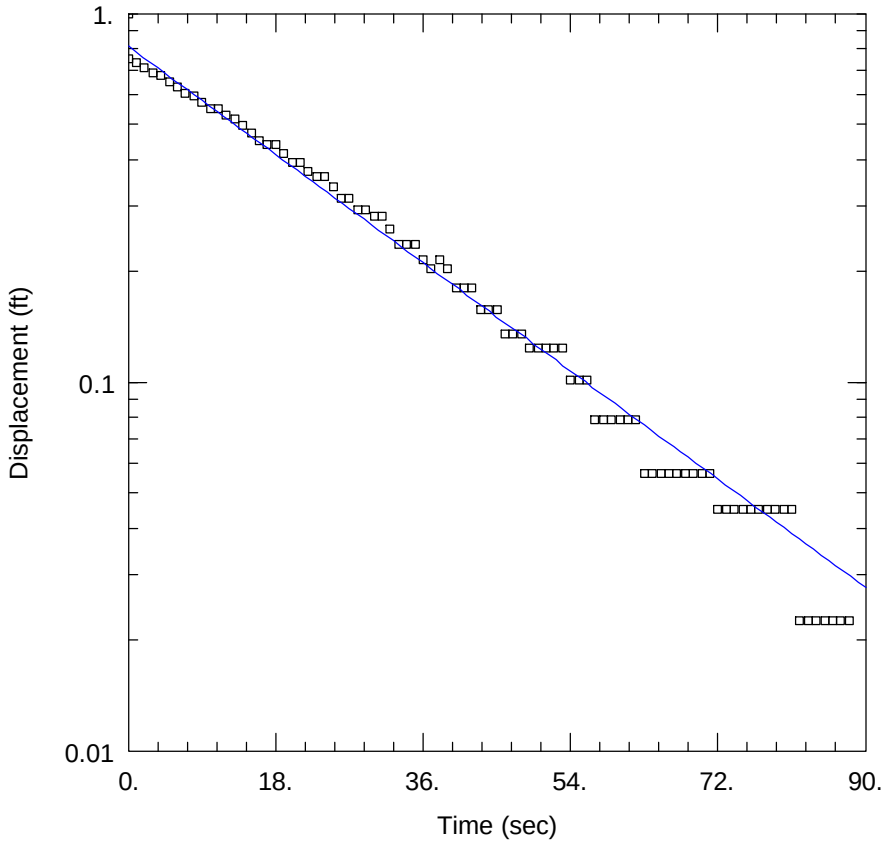
WELL DATA (MW-22A)

Initial Displacement: 1. ft
Total Well Penetration Depth: 26.4 ft
Casing Radius: 0.167 ft
Static Water Column Height: 26.4 ft
Screen Length: 20.6 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.003043 cm/sec
y0 = 0.8484 ft



MW-22A RISING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW22A_D.aqt
Date: 07/09/09 Time: 11:24:02

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-22A
Test Date: June 30, 2009

AQUIFER DATA

Saturated Thickness: 26.4 ft Anisotropy Ratio (Kz/Kr): 1.

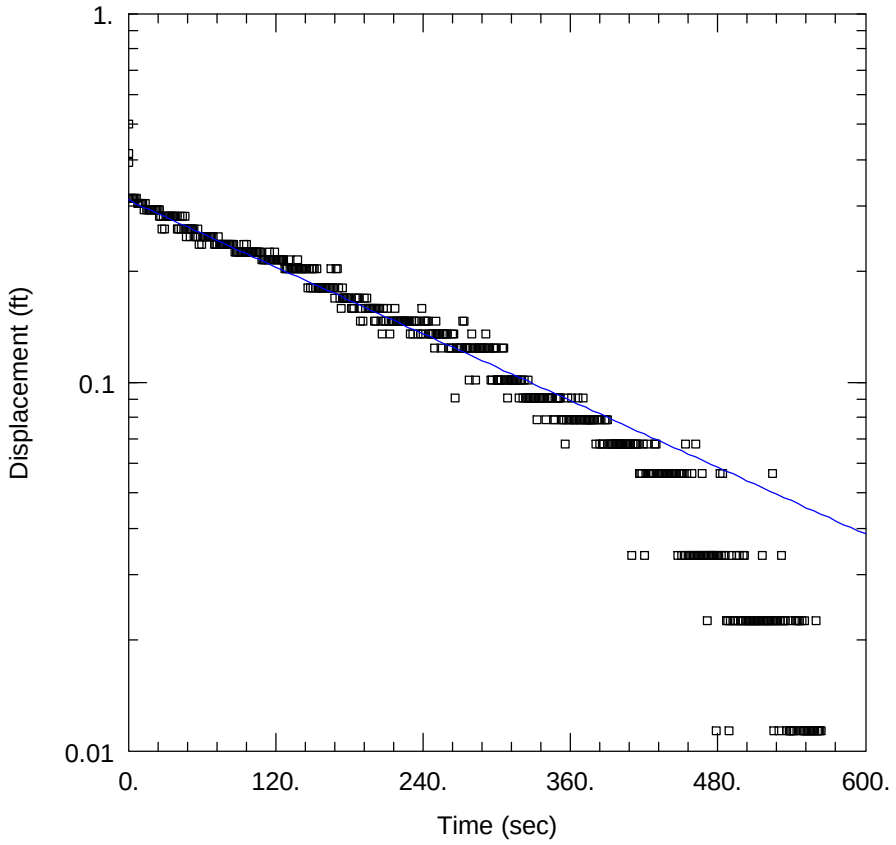
WELL DATA (MW-22A)

Initial Displacement: 1. ft
Total Well Penetration Depth: 26.4 ft
Casing Radius: 0.167 ft
Static Water Column Height: 26.4 ft
Screen Length: 20.6 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.003003 cm/sec
y0 = 0.8145 ft



MW-23A FALLING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW23A_A.aqt
Date: 07/09/09 Time: 11:27:05

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-23A
Test Date: June 30, 2009

AQUIFER DATA

Saturated Thickness: 20. ft Anisotropy Ratio (Kz/Kr): 1.

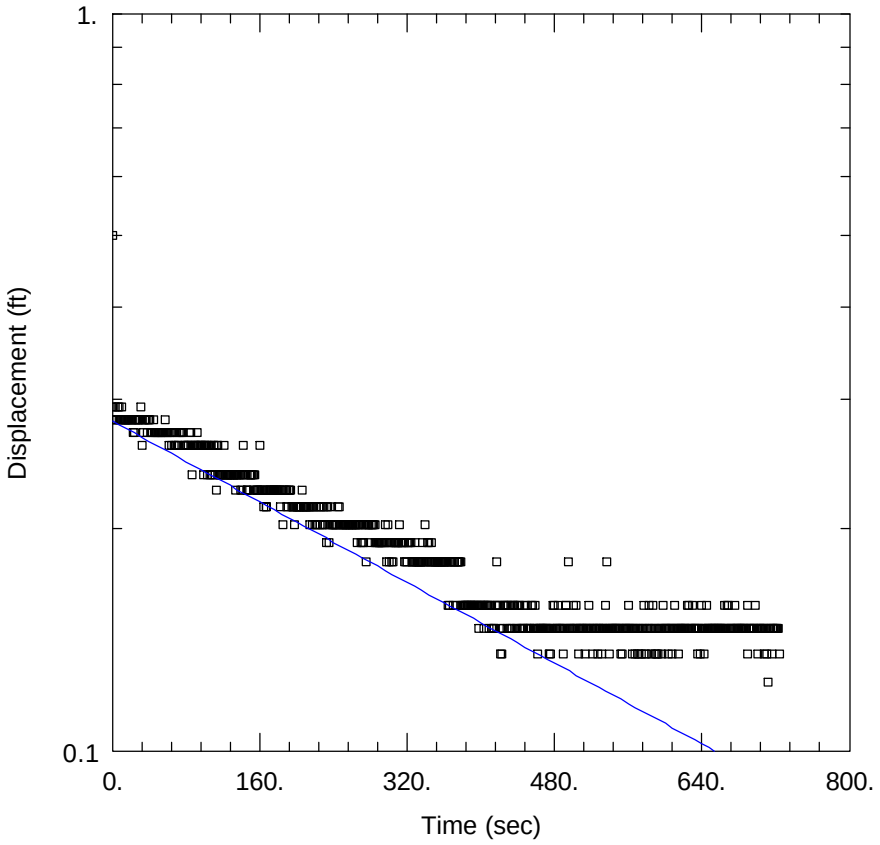
WELL DATA (MW-23A)

Initial Displacement: 0.5 ft
Total Well Penetration Depth: 20. ft
Casing Radius: 0.167 ft
Static Water Column Height: 20. ft
Screen Length: 18.8 ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.0002894 cm/sec
y0 = 0.3116 ft



MW-23A RISING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW23A_B.aqt
Date: 07/09/09 Time: 11:28:19

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-23A
Test Date: June 30, 2009

AQUIFER DATA

Saturated Thickness: 20. ft Anisotropy Ratio (Kz/Kr): 1.

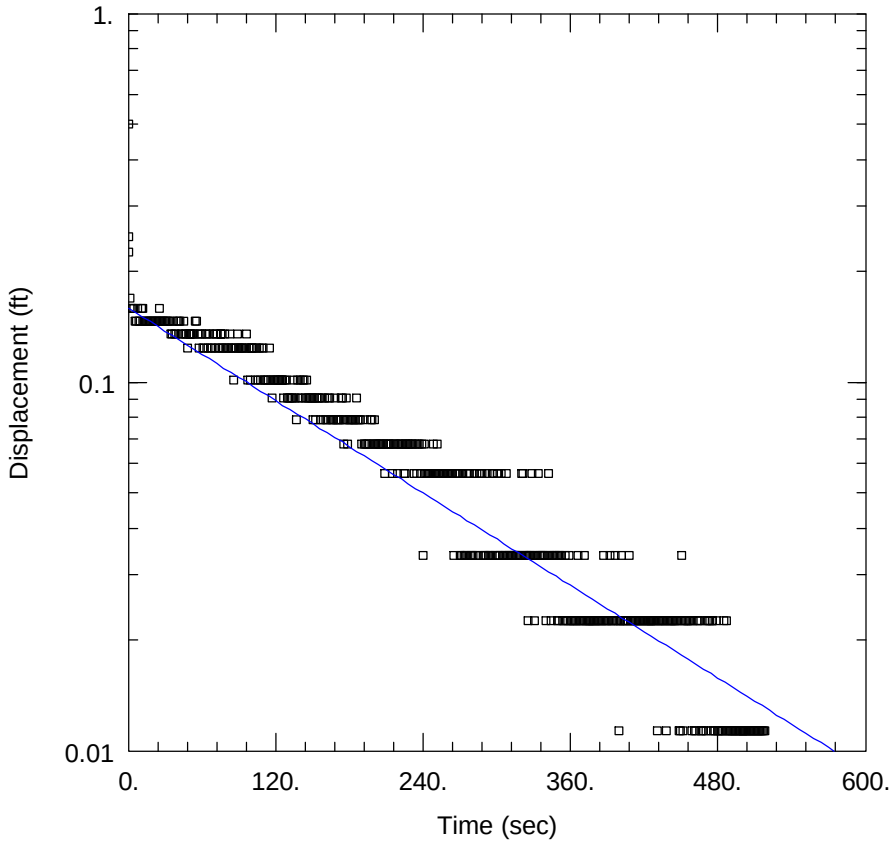
WELL DATA (MW-23A)

Initial Displacement: 0.5 ft Static Water Column Height: 20. ft
Total Well Penetration Depth: 20. ft Screen Length: 18.8 ft
Casing Radius: 0.167 ft Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.000131 cm/sec y0 = 0.2799 ft



MW-23A FALLING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW23A_C.aqt
Date: 07/09/09 Time: 11:29:26

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-23A
Test Date: June 30, 2009

AQUIFER DATA

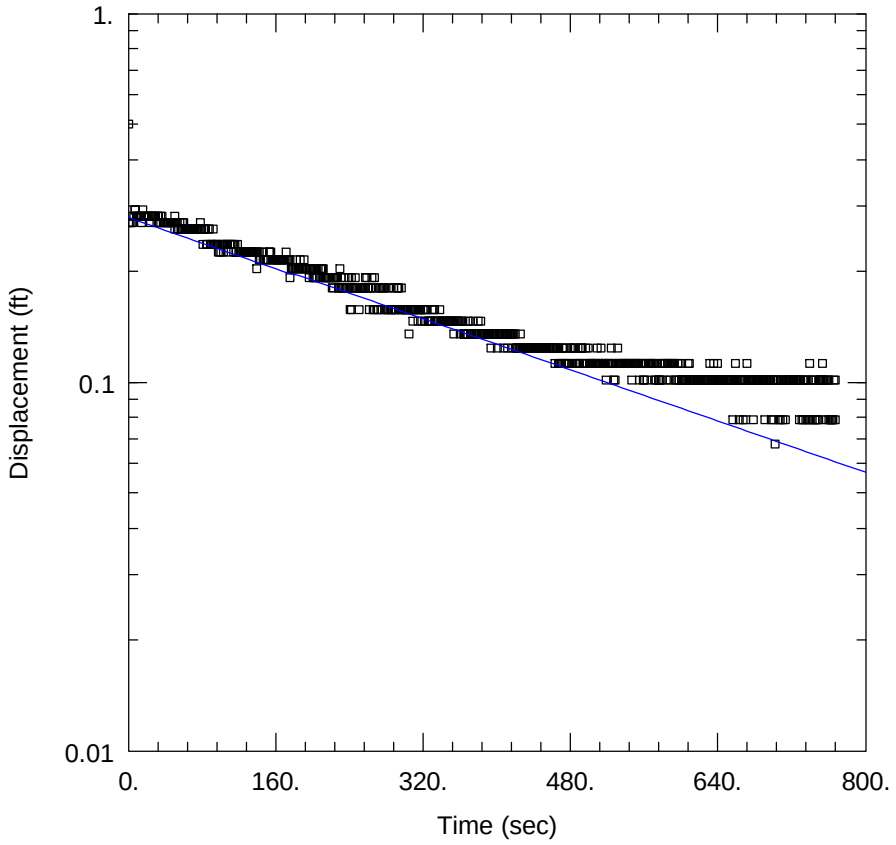
Saturated Thickness: 20. ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-23A)

Initial Displacement: 0.5 ft Static Water Column Height: 20. ft
Total Well Penetration Depth: 20. ft Screen Length: 18.8 ft
Casing Radius: 0.167 ft Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
K = 0.0004007 cm/sec y0 = 0.1589 ft



MW-23A RISING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW23A_D.aqt
Date: 07/09/09 Time: 11:30:23

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-23A
Test Date: June 30, 2009

AQUIFER DATA

Saturated Thickness: 20. ft Anisotropy Ratio (Kz/Kr): 1.

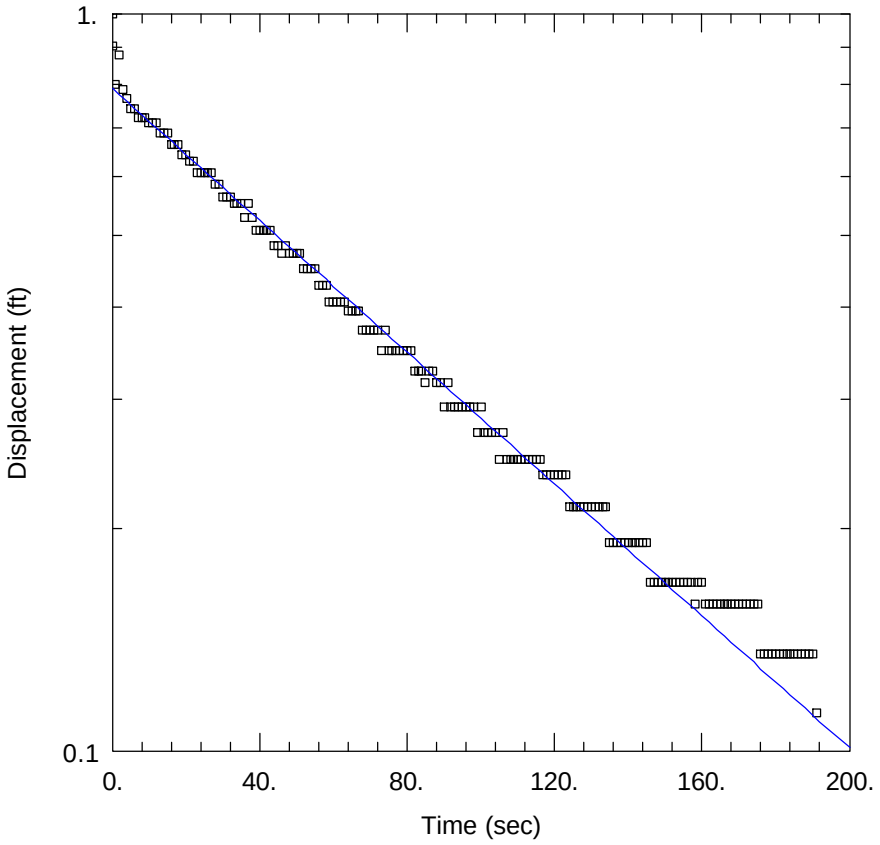
WELL DATA (MW-23A)

Initial Displacement: 0.5 ft Static Water Column Height: 20. ft
Total Well Penetration Depth: 20. ft Screen Length: 18.8 ft
Casing Radius: 0.167 ft Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.0001656 cm/sec y0 = 0.2801 ft



MW-24A FALLING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW24A_A.aqt
Date: 07/09/09 Time: 10:00:01

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-24A
Test Date: June 30, 2009

AQUIFER DATA

Saturated Thickness: 9.1 ft Anisotropy Ratio (Kz/Kr): 1.

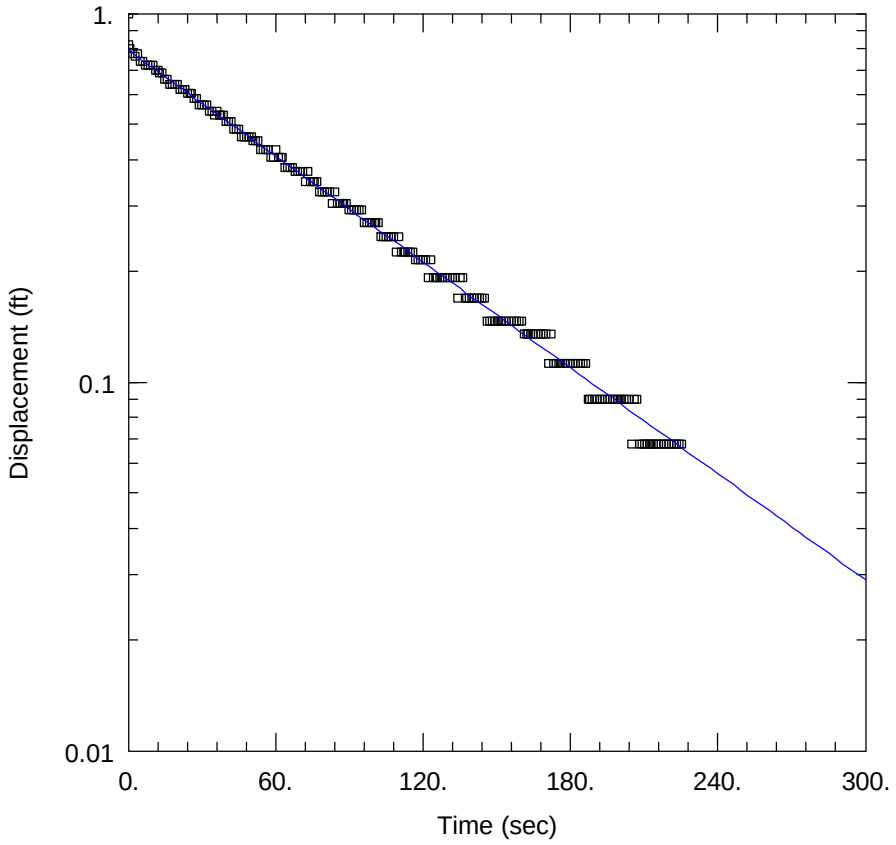
WELL DATA (MW-24A)

Initial Displacement: 1. ft
Total Well Penetration Depth: 9. ft
Casing Radius: 0.167 ft
Static Water Column Height: 9.1 ft
Screen Length: 6. ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.002127 cm/sec
y0 = 0.7913 ft



MW-24A RISING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW24A_B.aqt
Date: 07/09/09 Time: 10:00:53

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-24A
Test Date: June 30, 2009

AQUIFER DATA

Saturated Thickness: 9.1 ft Anisotropy Ratio (Kz/Kr): 1.

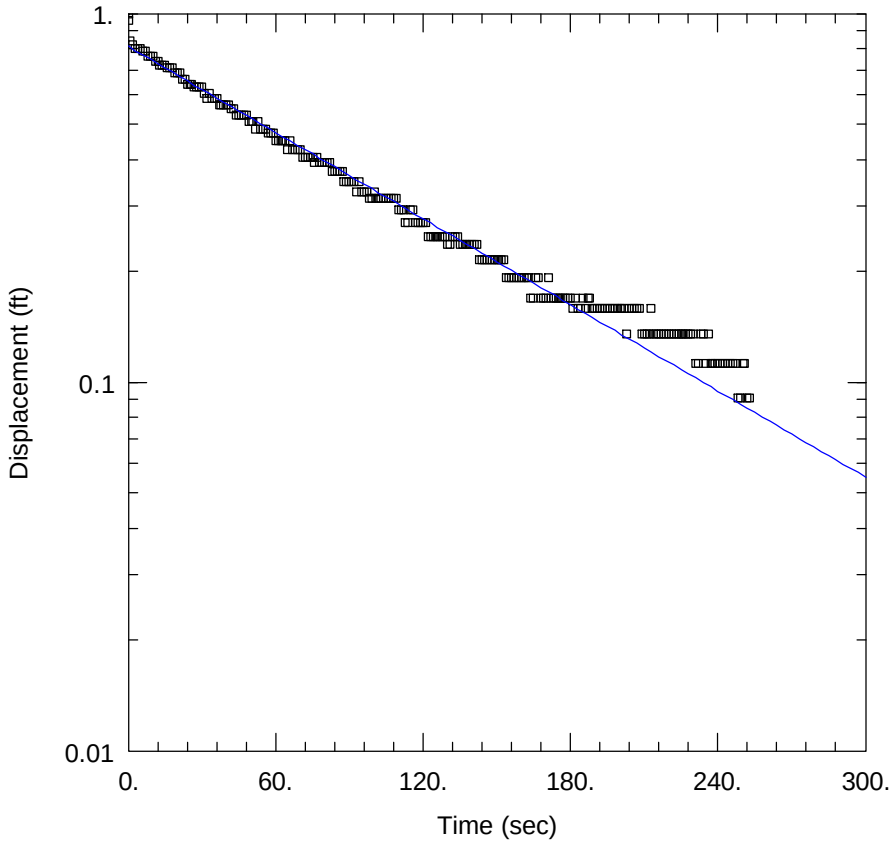
WELL DATA (MW-24A)

Initial Displacement: 1. ft
Total Well Penetration Depth: 9. ft
Casing Radius: 0.167 ft
Static Water Column Height: 9.1 ft
Screen Length: 6. ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.002277 cm/sec
y0 = 0.7944 ft



MW-24A FALLING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW24A_C.aqt
Date: 07/09/09 Time: 10:01:53

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-24A
Test Date: June 30, 2009

AQUIFER DATA

Saturated Thickness: 9.1 ft Anisotropy Ratio (Kz/Kr): 1.

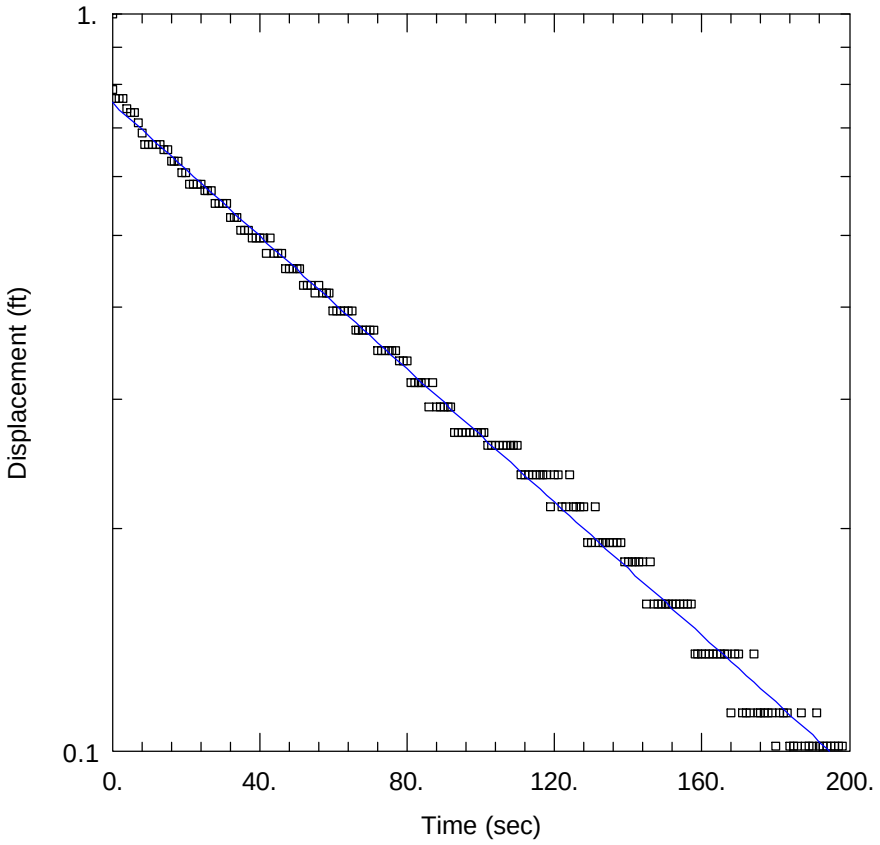
WELL DATA (MW-24A)

Initial Displacement: 1. ft
Total Well Penetration Depth: 9. ft
Casing Radius: 0.167 ft
Static Water Column Height: 9.1 ft
Screen Length: 6. ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.001853 cm/sec
y0 = 0.8141 ft



MW-24A RISING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW24A_D.aqt
Date: 07/09/09 Time: 10:03:12

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-24A
Test Date: June 30, 2009

AQUIFER DATA

Saturated Thickness: 9.1 ft Anisotropy Ratio (Kz/Kr): 1.

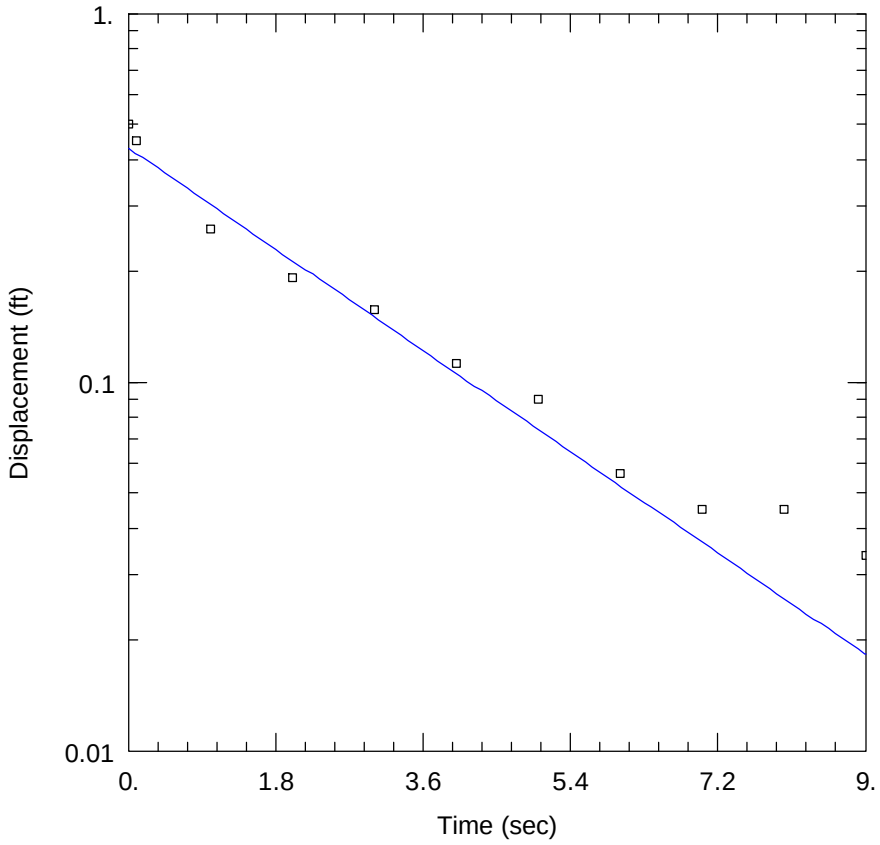
WELL DATA (MW-24A)

Initial Displacement: 1. ft
Total Well Penetration Depth: 9. ft
Casing Radius: 0.167 ft
Static Water Column Height: 9.1 ft
Screen Length: 6. ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.002147 cm/sec
y0 = 0.756 ft



MW-25A FALLING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW25A_A.aqt
Date: 07/09/09 Time: 11:04:53

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-25A
Test Date: June 30, 2009

AQUIFER DATA

Saturated Thickness: 7.2 ft Anisotropy Ratio (Kz/Kr): 1.

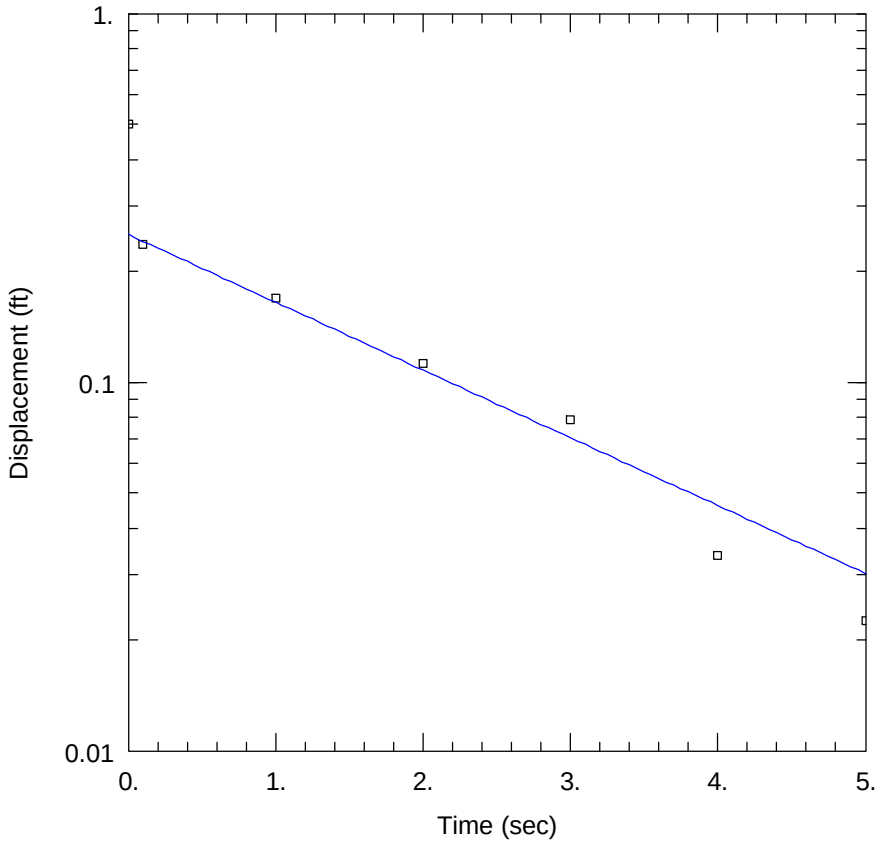
WELL DATA (MW-25A)

Initial Displacement: 0.5 ft
Total Well Penetration Depth: 7.2 ft
Casing Radius: 0.167 ft
Static Water Column Height: 7.2 ft
Screen Length: 5. ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.08347 cm/sec
y0 = 0.4317 ft



MW-25A RISING HEAD SLUG TEST #1

Data Set: C:\Buffalo China\MW25A_B.aqt
Date: 07/09/09 Time: 11:06:13

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-25A
Test Date: June 30, 2009

AQUIFER DATA

Saturated Thickness: 7.2 ft Anisotropy Ratio (Kz/Kr): 1.

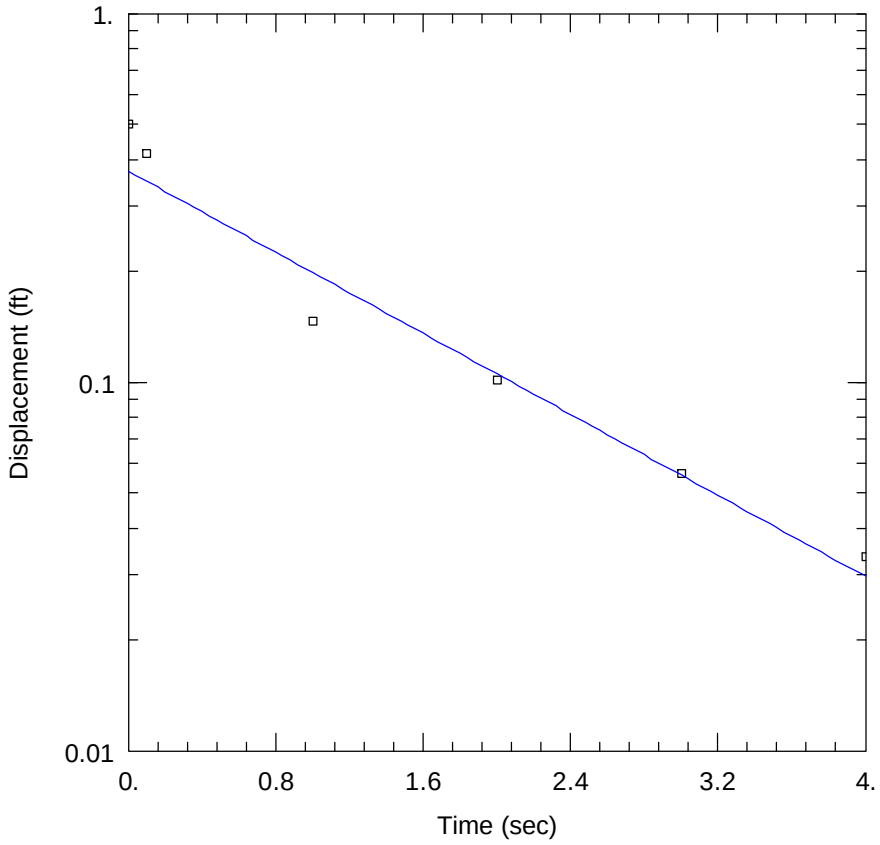
WELL DATA (MW-25A)

Initial Displacement: 0.5 ft
Total Well Penetration Depth: 7.2 ft
Casing Radius: 0.167 ft
Static Water Column Height: 7.2 ft
Screen Length: 5. ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.1006 cm/sec
y0 = 0.2513 ft



MW-25A FALLING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW25A_C.aqt
Date: 07/09/09 Time: 11:08:02

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-25A
Test Date: June 30, 2009

AQUIFER DATA

Saturated Thickness: 7.2 ft Anisotropy Ratio (Kz/Kr): 1.

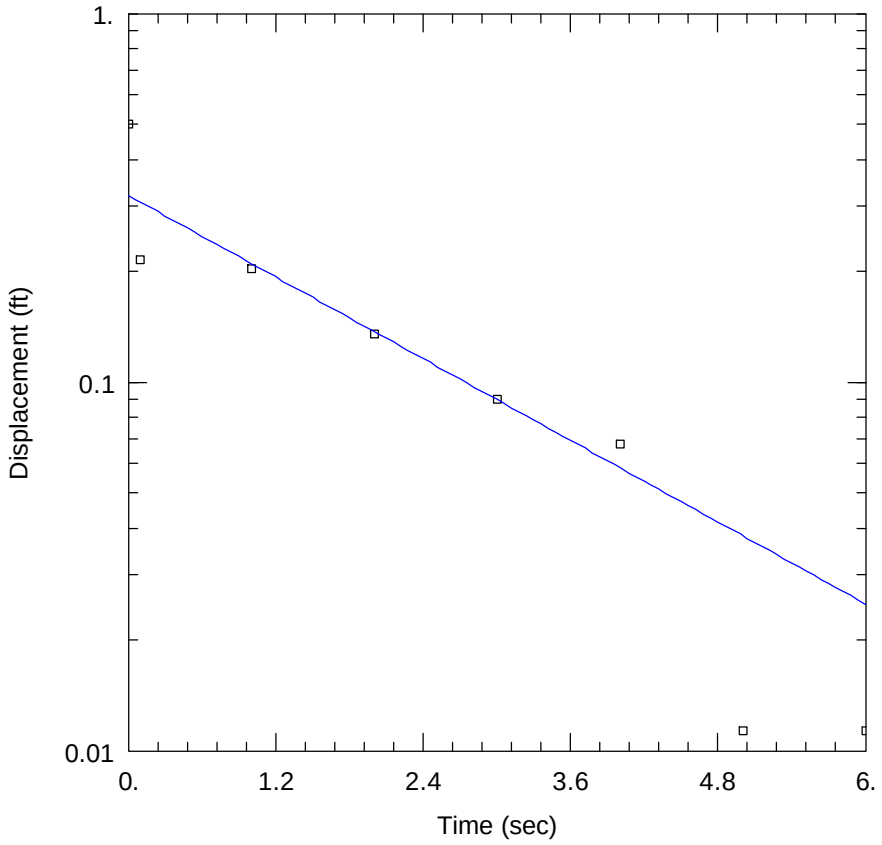
WELL DATA (MW-25A)

Initial Displacement: 0.5 ft
Total Well Penetration Depth: 7.2 ft
Casing Radius: 0.167 ft
Static Water Column Height: 7.2 ft
Screen Length: 5. ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.1504 cm/sec
y0 = 0.3735 ft



MW-25A RISING HEAD SLUG TEST #2

Data Set: C:\Buffalo China\MW25A_D.aqt
Date: 07/09/09 Time: 11:08:59

PROJECT INFORMATION

Company: CRA
Client: Hodgson Russ
Project: 37191
Location: Former Buffalo China
Test Well: MW-25A
Test Date: June 30, 2009

AQUIFER DATA

Saturated Thickness: 7.2 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-25A)

Initial Displacement: 0.5 ft
Total Well Penetration Depth: 7.2 ft
Casing Radius: 0.167 ft
Static Water Column Height: 7.2 ft
Screen Length: 5. ft
Well Radius: 0.167 ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.101 cm/sec y0 = 0.321 ft

APPENDIX F

LABORATORY ANALYTICAL DATA PACKAGES
(CD-ROM)

APPENDIX G

DATA VALIDATION REPORTS
(CD-ROM)

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MEMORANDUM

TO: Chris Barton

FROM: Susan Scrocchi/bjw/1 SCS

REF. NO.: 037191

DATE: September 8, 2009
REVISION: September 28, 2009

E-Mail and Hard Copy if Requested

RE: Analytical Results and QA/QC Review
Site Investigation-Soil and Groundwater
Former Buffalo China Site
Buffalo, New York
May - July 2009

INTRODUCTION

The following details a quality assessment and validation of the analytical data resulting from the collection of soil and groundwater samples from the Former Buffalo China Site in Buffalo, New York. The sample summary detailing sample identification, sample location, quality control (QC) samples and analytical parameters is presented in Table 1. Sample analysis was completed at TestAmerica Laboratories (TA), in Pittsburgh, Pennsylvania, in accordance with the methodologies presented in Table 2. Summaries of the analytical results are presented in Tables 3a and 3b.

The QC criteria used to assess the data were established by the methods and the guidance document "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-99/008, October 1999.

These guidelines are collectively referred to as "Guidelines" in this memorandum.

SAMPLE QUANTITATION

The laboratory reported detected concentrations of organic compounds below the laboratory's practical quantitation limit (PQL)/report limit (RL) but above the laboratory's method detection limit (MDL). The laboratory flagged these sample concentrations with a "J". These concentrations should be qualified as estimated (J) values unless qualified otherwise in this memorandum.

SAMPLE PRESERVATION AND HOLDING TIMES

Sample holding time periods and preservation requirements are summarized in the analytical methods. All sample extractions and/or analyses were performed within the specified holding times with one exception. Sample WG-37191-072009-006 required a dilution which was analyzed one day outside of the required

holding time. The trichloroethene and cis-1,2-dichloroethene results were from the diluted analysis and qualified as estimated.

All samples were properly preserved and cooled to 4°C(±2°C) after collection.

GAS CHROMATOGRAPHY/MASS SPECTROMETER (GC/MS) - TUNING AND MASS CALIBRATION (INSTRUMENT PERFORMANCE CHECK) - VOLATILE ORGANIC COMPOUNDS (VOCS)

To ensure adequate mass resolution, identification, and to some degree, sensitivity; the performance of each GC/MS instrument used for VOC analysis was checked at the beginning of each 12-hour period using bromofluorobenzene (BFB). The resulting spectra must meet the criteria cited in the "Guidelines" before initiating an analysis sequence.

Instrument performance check data were reviewed. These tuning compounds were analyzed at the required frequency throughout the VOC analyses. The results of all instrument performance checks were within the acceptance criteria, indicating acceptable instrument performance.

GC/MS INITIAL CALIBRATION - VOCS

Initial calibration data are used to demonstrate that each instrument is capable of generating acceptable quantitative data. A five point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each over a specific concentration range.

Initial calibration criteria for organic analyses are evaluated against the following criteria:

i) Must meet a minimum mean relative response factor (RRF) of 0.05.

ii) The percent relative standard deviation (%RSD) values must not exceed 30.0 percent or a minimum coefficient of determination (R^2) of 0.99 if quadratic equation calibration curves are used.

Calibration standards were analyzed at the required frequency and the results met the above criteria for sensitivity. 1,2-Dibromo-3-chloropropane yielded a high %RSD. All associated sample results were qualified as estimated (see Table 4).

GC/MS CONTINUING CALIBRATION - VOCS

To ensure that each instrument was capable of producing acceptable quantitative data over the analysis period, continuing calibration standards must be analyzed every 12 hours. The following criteria are employed to evaluate the continuing calibration data:

i) Must meet a minimum mean RRF of 0.05.

ii) The percent difference (%D) between the mean initial calibration RRF and the continuing calibration RRF must not exceed 25 percent.

iii) The percent drift between the true value and the continuing calibration value must not exceed 25 percent.

Calibration standards were analyzed at the required frequency and the results met the above criteria for instrument sensitivity. Various compounds exhibited variability in response compared to the initial calibration. All associated sample results were qualified as estimated (see Table 5).

METHOD BLANK/LABORATORY BLANK SAMPLES

Method blank samples are prepared from a purified sample matrix and are processed concurrently with investigative samples to assess the presence and the magnitude of sample contamination introduced during sample analysis. Method blank samples are analyzed at a minimum frequency of one per analytical batch and target analytes should be non-detect.

Method blanks were analyzed at the recommended frequency. Some VOCs were present at low concentrations. All associated sample results with similar concentrations were qualified as non-detect (see Table 6).

SURROGATE COMPOUNDS - ORGANIC ANALYSES

Individual sample performance for organic analyses was monitored by assessing the results of surrogate compound percent recoveries. Surrogate percent recoveries are reviewed against the laboratory developed control limits provided in the analytical report.

All surrogate recoveries met the method criteria, demonstrating acceptable analytical efficiency for these analyses.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) ANALYSES

To assess the long term accuracy and precision of the analytical methods on various matrices, MS/MSD percent recoveries and relative percent differences (RPD) of the concentrations were determined. The organic MS/MSD percent recovery and RPD control limits are established by the laboratory.

All MS/MSD recoveries and RPDs were acceptable indicating acceptable laboratory performance.

LABORATORY CONTROL SAMPLE (LCS)

The LCS analysis serves as a monitor of the overall performance in all steps of the sample analysis and is analyzed with each sample batch. The LCS percent recoveries were evaluated against method and laboratory established control limits. Some LCS analyses were performed in duplicate to monitor laboratory precision.

The LCS percent recoveries were all within the laboratory control limits indicating acceptable analytical accuracy and precision (where applicable).

INTERNAL STANDARD (IS) SUMMARIES - ORGANIC ANALYSES

To correct for variability in the GC/MS response and sensitivity, IS compounds are added to all samples. All results are calculated as a ratio of the compound and associated IS response. Overall instrument stability and performance for VOC analysis were monitored using IS peak area and Retention time (RT) data. The IS peak areas and RTs of the samples are required to meet the following criteria:

i) IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated continuing calibration standard IS area counts.

ii) The RT of the IS must not vary by more than plus or minus 30 seconds from the associated continuing calibration standard.

A review of the VOC internal standard data showed that the IS area counts and RT data were within the acceptance criteria for all VOC samples with the exception of one slightly low recovery. The associated sample results were qualified as estimated (see Table 7).

TARGET COMPOUND IDENTIFICATION

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound RT and mass spectra (if applicable) were evaluated according to identification criteria established by the methods. The organic compounds reported adhered to the specified identification criteria.

TARGET COMPOUND QUANTITATION

The reported quantitation results and detection limits were checked to ensure results reported were accurate. No discrepancies were found between the raw data and the sample results reported by the laboratory.

Sample WG-37191-072109-017 was analyzed undiluted and at a dilution of 1:20. The undiluted results correlated with the field duplicate sample collected at the same location, whereas the diluted analysis yielded percent differences greater than 50. All results from the undiluted analysis were reported. The trichloroethene and cis-1,2-dichloroethene results were outside of the linear range of the calibration curve and were qualified as estimated.

FIELD QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

The field QA/QC consisted of four trip blanks and four field duplicates.

Trip Blanks

To monitor potential cross-contamination of VOC during aqueous sample transportation and storage, a trip blank was submitted to the laboratory for VOC analysis with each shipping cooler containing multiple samples.

All trip blank results were non-detect for the compounds of interest with the exception of trichloroethene present in one trip blank. All associated sample results were non-detect or significantly greater than the trip blank and would not have been impacted.

Field Duplicates

Overall precision for the sampling event and laboratory procedures was monitored using the results of the field duplicate sample sets. The RPDs associated with these duplicate samples must be less than 50 percent for water and 100 percent for soils. If the reported concentration in either the investigative sample or its duplicate is less than five times the RL, the evaluation criteria is one times the RL value for water and two times the RL value for soils.

All field duplicate results were acceptable.

SYSTEM PERFORMANCE

System performance between various quality control checks was evaluated to monitor for changes that may have caused the degradation of data quality. No technical problems or chromatographic anomalies were observed which would require qualification of the data.

OVERALL ASSESSMENT

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used with the qualifications noted herein.

TABLE 1

SAMPLE AND ANALYSIS SUMMARY
SITE INVESTIGATION - SOIL AND GROUNDWATER
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

							Analysis/Parameters	
Sample I.D.	*Location I.D.*	*Matrix*	*Start Depth (ft bgs)*	*End Depth (ft bgs)*	*Collection Date (mm/dd/yy)*	*Collection Time (hr:min)*	*TCL VOCs*	*Comment*
SO-37191-052709-JJW-001	MW-6A	Soil	6	8	05/27/09	10:45	X	
SO-37191-052709-JJW-002	MW-19A	Soil	6	8	05/27/09	13:45	X	
SO-37191-052709-JJW-003	MW-20A	Soil	6	8	06/01/09	10:00	X	
SO-37191-052709-JJW-004	MW-21A	Soil	2	4	06/01/09	13:00	X	
SO-37191-052709-JJW-005	MW-22A	Soil	10	12	06/01/09	15:00	X	
SO-37191-052709-JJW-006	MW-23A	Soil	12	14	06/02/09	11:00	X	
SO-37191-060409-JJW-007	MW-20	Soil	2	4	06/04/09	12:00	X	
SO-37191-060409-JJW-008	MW-19	Soil	6	8	06/04/09	14:00	X	
SO-37191-060409-JJW-009	MW-19	Soil	6	8	06/04/09	15:00	X	Field duplicate of SO-37191-060409-JJW-008
SO-37191-060809-JJW-010	MW-22	Soil	10	12	06/08/09	15:00	X	
Trip Blank	Trip Blank	-	-	-	06/08/09	-	X	
SO-37191-062209-JJW-011	MW-24A	Soil	0	2	06/22/09	8:00	X	
SO-37191-062209-JJW-012	MW-25A	Soil	4	6	06/22/09	9:30	X	
SO-37191-062209-JJW-013	MW-25	Soil	6	8	06/22/09	11:00	X	
WG-37191-072009-001	MW-19A	Groundwater	-	-	*07/20/09*	11:40	X	
WG-37191-072009-002	MW-19	Groundwater	-	-	07/20/09	11:40	X	
WG-37191-072009-003	MW-22A	Groundwater	-	-	07/20/09	12:30	X	
WG-37191-072009-004	MW-22	Groundwater	-	-	07/20/09	12:30	X	
WG-37191-072009-005	MW-14A	Groundwater	-	-	07/20/09	13:15	X	
WG-37191-072009-006	MW-11	Groundwater	-	-	07/20/09	13:40	X	
WG-37191-072009-007	MW-23A	Groundwater	-	-	*07/20/09*	*14:10*	X	
WG-37191-072009-008	MW-23A	Groundwater	-	-	07/20/09	14:15	X	Field duplicate of WG-37191-072009-007
WG-37191-072009-009	MW-25A	Groundwater	-	-	07/20/09	14:20	X	
WG-37191-072009-010	MW-24A	Groundwater	-	-	07/20/09	15:00	X	
WG-37191-072009-011	MW-10	Groundwater	-	-	07/20/09	15:00	X	
WG-37191-072009-012	MW-15A	Groundwater	-	-	07/20/09	15:50	X	
WG-37191-072009-013	MW-17	Groundwater	-	-	07/20/09	15:35	X	
TB-37191-702009	Trip Blank	-	-	-	07/20/09	-	X	
WG-37191-072109-014	MW-9A	Groundwater	-	-	07/21/09	8:55	X	
WG-37191-072109-015	MW-9	Groundwater	-	-	07/21/09	9:00	X	

TABLE 1

SAMPLE AND ANALYSIS SUMMARY
SITE INVESTIGATION - SOIL AND GROUNDWATER
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

							Analysis/Parameters	
Sample I.D.	*Location I.D.*	*Matrix*	*Start Depth (ft bgs)*	*End Depth (ft bgs)*	*Collection Date (mm/dd/yy)*	*Collection Time (hr:min)*	*TCL VOCs*	*Comment*
WG-37191-072109-016	MW-21A	Groundwater	-	-	07/21/09	9:40	X	
WG-37191-072109-017	MW-21A	Groundwater	-	-	07/21/09	9:45	X	Field duplicate of WG-37191-072109-016
WG-37191-072109-018	MW-8	Groundwater	-	-	07/21/09	9:25	X	
TB-37191-072109	Trip Blank	-	-	-	07/21/09	-	X	
WG-37191-072209-029	MW-7A	Groundwater	-	-	07/22/09	8:45	X	
WG-37191-072209-030	MW-7	Groundwater	-	-	07/22/09	8:40	X	
WG-37191-072209-031	MW-20A	Groundwater	-	-	07/22/09	9:10	X	
WG-37191-072209-032	MW-20	Groundwater	-	-	07/22/09	9:20	X	
WG-37191-072209-033	MW-6A	Groundwater	-	-	07/22/09	10:15	X	
WG-37191-072209-034	MW-13A	Groundwater	-	-	07/22/09	10:10	X	
WG-37191-072209-035	MW-6	Groundwater	-	-	07/22/09	11:10	X	
WG-37191-072209-036	MW-12	Groundwater	-	-	07/22/09	11:15	X	
WG-37191-072209-037	MW-4	Groundwater	-	-	07/22/09	11:45	X	
WG-37191-072209-038	MW-5A	Groundwater	-	-	07/22/09	11:45	X	
WG-37191-072209-039	MW-5A	Groundwater	-	-	07/22/09	12:30	X	Field duplicate of WG-37191-072209-038
WG-37191-072209-040	MW-5	Groundwater	-	-	07/22/09	12:25	X	
WG-37191-072209-041	MW-18A	Groundwater	-	-	07/22/09	12:25	X	
WG-37191-072209-042	MW-18	Groundwater	-	-	07/22/09	13:10	X	
TB-37191-072209	Trip Blank	-	-	-	07/22/09	-	X	

Notes:

TCL - Target Compound List.
VOCs - Volatile Organic Compounds.

TABLE 2

SUMMARY OF ANALYTICAL METHODS
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

Parameter	*Method* [1]
Groundwater and Soil	
TCL VOCs	SW-846 8260B

Notes:

[1] "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 (with all subsequent revisions).

TCL Target Compound List.

VOCs Volatile Organic Compounds.

TABLE 3A

ANALYTICAL RESULTS SUMMARY
SITE INVESTIGATION - GROUNDWATER
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

	Sample Location:	*MW-4*	*MW-5*	*MW-5A*	*MW-5A*	*MW-6*
	Sample ID:	*WG-37191-072209-037*	*WG-37191-072209-040*	*WG-37191-072209-038*	*WG-37191-072209-039*	*WG-37191-072209-035*
	Sample Date:	*7/22/2009*	*7/22/2009*	*7/22/2009*	*7/22/2009*	*7/22/2009*
					Field Duplicate	
Parameters	*Units*					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	120 U	20000 U	120 U	1000 U	50 U
1,1,2,2-Tetrachloroethane	µg/L	120 UJ	20000 U	120 U	1000 UJ	50 UJ
1,1,2-Trichloroethane	µg/L	120 U	20000 U	120 U	1000 U	50 U
1,1-Dichloroethane	µg/L	120 U	20000 U	120 U	1000 U	50 U
1,1-Dichloroethene	µg/L	120 U	20000 U	40 J	1000 U	50 U
1,2,4-Trichlorobenzene	µg/L	120 UJ	20000 U	120 U	1000 UJ	50 UJ
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	120 UJ	20000 U	120 U	1000 UJ	50 UJ
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	120 U	20000 U	120 U	1000 U	50 U
1,2-Dichlorobenzene	µg/L	120 U	20000 U	120 U	1000 U	50 U
1,2-Dichloroethane	µg/L	120 U	20000 U	120 U	320 J	50 U
1,2-Dichloropropane	µg/L	120 U	20000 U	120 U	1000 U	50 U
1,3-Dichlorobenzene	µg/L	120 U	20000 U	120 U	1000 U	50 U
1,4-Dichlorobenzene	µg/L	120 U	20000 U	120 U	1000 U	50 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	120 U	20000 U	120 U	1000 U	50 U
2-Hexanone	µg/L	120 U	20000 U	120 U	1000 U	50 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	120 U	20000 U	120 U	120 J	50 U
Acetone	µg/L	500 U	80000 U	280 J	4000 U	200 U
Benzene	µg/L	120 U	20000 U	120 U	1000 U	50 U
Bromodichloromethane	µg/L	120 U	20000 U	120 U	1000 U	50 U
Bromoform	µg/L	120 U	20000 U	120 U	1000 U	50 U
Bromomethane (Methyl Bromide)	µg/L	120 U	20000 U	120 U	1000 U	50 U
Carbon disulfide	µg/L	120 U	20000 U	120 U	1000 U	50 U
Carbon tetrachloride	µg/L	120 U	20000 U	120 U	1000 U	50 U
Chlorobenzene	µg/L	120 U	20000 U	120 U	1000 U	50 U
Chloroethane	µg/L	120 U	20000 U	120 U	1000 U	50 U
Chloroform (Trichloromethane)	µg/L	120 U	20000 U	120 U	1000 U	50 U
Chloromethane (Methyl Chloride)	µg/L	120 U	20000 U	120 U	1000 U	50 U
cis-1,2-Dichloroethene	µg/L	1600	310000	18000	27000	740
cis-1,3-Dichloropropene	µg/L	120 U	20000 U	120 U	1000 U	50 U
Cyclohexane	µg/L	120 U	20000 U	120 U	1000 U	50 U

TABLE 3A

ANALYTICAL RESULTS SUMMARY
SITE INVESTIGATION - GROUNDWATER
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

	Sample Location:	*MW-4*	*MW-5*	*MW-5A*	*MW-5A*	*MW-6*
	Sample ID:	*WG-37191-072209-037*	*WG-37191-072209-040*	*WG-37191-072209-038*	*WG-37191-072209-039*	*WG-37191-072209-035*
	Sample Date:	*7/22/2009*	*7/22/2009*	*7/22/2009*	*7/22/2009*	*7/22/2009*
					Field Duplicate	
Parameters	*Units*					
Volatile Organic Compounds (Cont'd.)						
Dibromochloromethane	µg/L	120 U	20000 U	120 U	1000 U	50 U
Dichlorodifluoromethane (CFC-12)	µg/L	120 U	20000 U	120 U	1000 U	50 U
Ethylbenzene	µg/L	120 U	20000 U	120 U	1000 U	50 U
Isopropylbenzene	µg/L	120 U	20000 U	120 U	1000 U	50 U
Methyl acetate	µg/L	120 UJ	20000 U	120 U	1000 UJ	50 UJ
Methyl cyclohexane	µg/L	120 U	20000 U	120 U	1000 U	50 U
Methyl Tert Butyl Ether	µg/L	120 U	20000 U	120 U	1000 U	50 U
Methylene chloride	µg/L	120 U	20000 U	80 J	240 J	50 U
Styrene	µg/L	120 U	20000 U	120 U	1000 U	50 U
Tetrachloroethene	µg/L	120 U	20000 U	45 J	1000 U	50 U
Toluene	µg/L	120 U	96000	24 J	1000 U	50 U
trans-1,2-Dichloroethene	µg/L	29 J	20000 U	66 J	1000 U	50 U
trans-1,3-Dichloropropene	µg/L	120 U	20000 U	120 U	1000 U	50 U
Trichloroethene	µg/L	2200	410000	24000	35000	290
Trichlorofluoromethane (CFC-11)	µg/L	120 U	20000 U	120 U	1000 U	50 U
Trifluorotrichloroethane (Freon 113)	µg/L	120 U	20000 U	120 U	1000 U	50 U
Vinyl chloride	µg/L	120 U	20000 U	83 J	1000 U	50 U
Xylene (total)	µg/L	380 U	17000 J	110 J	3000 U	150 U

TABLE 3A

ANALYTICAL RESULTS SUMMARY
SITE INVESTIGATION - GROUNDWATER
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

	Sample Location:	MW-6A	MW-7	MW-7A	MW-8	MW-9
	Sample ID:	WG-37191-072209-033	WG-37191-072209-030	WG-37191-072209-029	WG-37191-072109-018	WG-37191-072109-015
	Sample Date:	7/22/2009	7/22/2009	7/22/2009	7/21/2009	7/21/2009
Parameters	*Units*					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	12 UJ	5.0 UJ	5.0 UJ	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	µg/L	12 UJ	5.0 UJ	5.0 UJ	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	12 UJ	5.0 UJ	5.0 UJ	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	12 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ
2-Hexanone	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	µg/L	22 J	20 U	20 U	20 UJ	20 UJ
Benzene	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl Bromide)	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl Chloride)	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	30	5.0 U	0.90 J	5.0 U	5.0 U
cis-1,3-Dichloropropene	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
Cyclohexane	µg/L	290	5.0 U	5.0 U	5.0 U	5.0 U

TABLE 3A

ANALYTICAL RESULTS SUMMARY
SITE INVESTIGATION - GROUNDWATER
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

	Sample Location:	*MW-6A*	*MW-7*	*MW-7A*	*MW-8*	*MW-9*
	Sample ID:	*WG-37191-072209-033*	*WG-37191-072209-030*	*WG-37191-072209-029*	*WG-37191-072109-018*	*WG-37191-072109-015*
	Sample Date:	*7/22/2009*	*7/22/2009*	*7/22/2009*	*7/21/2009*	*7/21/2009*
Parameters	*Units*					
Volatile Organic Compounds (Cont'd.)						
Dibromochloromethane	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	2.9 J	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	µg/L	12 UJ	5.0 UJ	5.0 UJ	5.0 U	5.0 U
Methyl cyclohexane	µg/L	130	5.0 U	5.0 U	5.0 U	5.0 U
Methyl Tert Butyl Ether	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	12 U	5.0 U	5.0 U	1.1 J	5.0 U
Trichlorofluoromethane (CFC-11)	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
Trifluorotrichloroethane (Freon 113)	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	µg/L	12 U	5.0 U	5.0 U	5.0 U	5.0 U
Xylene (total)	µg/L	17 J	15 U	15 U	15 U	15 U

TABLE 3A

ANALYTICAL RESULTS SUMMARY
SITE INVESTIGATION - GROUNDWATER
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

	Sample Location:	*MW-9A*	*MW-10*	*MW-11*	*MW-12*	*MW-13A*
	Sample ID:	*WG-37191-072109-014*	*WG-37191-072009-011*	*WG-37191-072009-006*	*WG-37191-072209-036*	*WG-37191-072209-034*
	Sample Date:	*7/21/2009*	*7/20/2009*	*7/20/2009*	*7/22/2009*	*7/22/2009*
Parameters	*Units*					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	120 UJ	1200 UJ
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	1.5 J	120 U	1200 U
1,2,4-Trichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	120 UJ	1200 UJ
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	5.0 U	5.0 U	5.0 U	120 UJ	1200 UJ
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
1,2-Dichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
1,3-Dichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
1,4-Dichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	5.0 UJ	5.0 U	5.0 U	120 U	1200 U
2-Hexanone	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
Acetone	µg/L	20 UJ	20 UJ	12 J	500 U	5000 U
Benzene	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
Bromomethane (Methyl Bromide)	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
Chloromethane (Methyl Chloride)	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
cis-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	350 J	1100	42000
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
Cyclohexane	µg/L	2.0 J	5.0 U	5.0 U	120 U	1200 U

TABLE 3A

ANALYTICAL RESULTS SUMMARY
SITE INVESTIGATION - GROUNDWATER
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

	Sample Location:	*MW-9A*	*MW-10*	*MW-11*	*MW-12*	*MW-13A*
	Sample ID:	*WG-37191-072109-014*	*WG-37191-072009-011*	*WG-37191-072009-006*	*WG-37191-072209-036*	*WG-37191-072209-034*
	Sample Date:	*7/21/2009*	*7/20/2009*	*7/20/2009*	*7/22/2009*	*7/22/2009*
Parameters	*Units*					
Volatile Organic Compounds (Cont'd.)						
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
Dichlorodifluoromethane (CFC-12)	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
Isopropylbenzene	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
Methyl acetate	µg/L	5.0 U	5.0 U	5.0 U	120 UJ	1200 UJ
Methyl cyclohexane	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
Methyl Tert Butyl Ether	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
Tetrachloroethene	µg/L	5.0 U	5.0 U	5.0 U	63 J	1200 U
Toluene	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U	5.6	120 U	1200 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
Trichloroethene	µg/L	5.0 U	0.86 J	120 J	4400	39000
Trichlorofluoromethane (CFC-11)	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
Trifluorotrichloroethane (Freon 113)	µg/L	5.0 U	5.0 U	5.0 U	120 U	1200 U
Vinyl chloride	µg/L	5.0 U	5.0 U	5.0 U	120 U	530 J
Xylene (total)	µg/L	15 U	15 U	15 U	380 U	3800 U

TABLE 3A

ANALYTICAL RESULTS SUMMARY
SITE INVESTIGATION - GROUNDWATER
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

	Sample Location:	*MW-14A*	*MW-15A*	*MW-17*	*MW-18*	*MW-18A*
	Sample ID:	*WG-37191-072009-005*	*WG-37191-072009-012*	*WG-37191-072009-013*	*WG-37191-072209-042*	*WG-37191-072209-041*
	Sample Date:	*7/20/2009*	*7/20/2009*	*7/20/2009*	*7/22/2009*	*7/22/2009*
Parameters	*Units*					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	50 UJ	1500 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
1,1-Dichloroethane	µg/L	1.4 J	5.0 U	5.0 U	50 U	1500 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
1,2,4-Trichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	50 UJ	1500 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	5.0 U	5.0 U	5.0 U	50 UJ	1500 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
1,2-Dichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
1,3-Dichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
1,4-Dichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
2-Hexanone	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
Acetone	µg/L	20 UJ	20 UJ	11 J	200 U	6000 U
Benzene	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
Bromomethane (Methyl Bromide)	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
Chloroform (Trichloromethane)	µg/L	2.6 J	5.0 U	5.0 U	50 U	1500 U
Chloromethane (Methyl Chloride)	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
cis-1,2-Dichloroethene	µg/L	120	1.1 J	5.0 U	45 J	4600
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
Cyclohexane	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U

TABLE 3A

ANALYTICAL RESULTS SUMMARY
SITE INVESTIGATION - GROUNDWATER
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

	Sample Location:	*MW-14A*	*MW-15A*	*MW-17*	*MW-18*	*MW-18A*
	Sample ID:	*WG-37191-072009-005*	*WG-37191-072009-012*	*WG-37191-072009-013*	*WG-37191-072209-042*	*WG-37191-072209-041*
	Sample Date:	*7/20/2009*	*7/20/2009*	*7/20/2009*	*7/22/2009*	*7/22/2009*
Parameters	*Units*					
Volatile Organic Compounds (Cont'd.)						
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
Dichlorodifluoromethane (CFC-12)	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
Ethylbenzene	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
Isopropylbenzene	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
Methyl acetate	µg/L	5.0 U	5.0 U	5.0 U	50 UJ	1500 U
Methyl cyclohexane	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
Methyl Tert Butyl Ether	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
Tetrachloroethene	µg/L	2.2 J	5.0 U	5.0 U	50 U	1500 U
Toluene	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
trans-1,2-Dichloroethene	µg/L	0.88 J	5.0 U	5.0 U	50 U	1500 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
Trichloroethene	µg/L	190	4.5 J	5.0 U	680	26000
Trichlorofluoromethane (CFC-11)	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
Trifluorotrichloroethane (Freon 113)	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
Vinyl chloride	µg/L	5.0 U	5.0 U	5.0 U	50 U	1500 U
Xylene (total)	µg/L	4.3 J	4.3 J	15 U	150 U	1300 J

TABLE 3A

ANALYTICAL RESULTS SUMMARY
SITE INVESTIGATION - GROUNDWATER
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

	Sample Location:	MW-19	MW-19A	MW-20	MW-20A	MW-21A
	Sample ID:	WG-37191-072009-002	WG-37191-072009-001	WG-37191-072209-032	WG-37191-072209-031	WG-37191-072109-016
	Sample Date:	7/20/2009	7/20/2009	7/22/2009	7/22/2009	7/21/2009
Parameters	*Units*					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	500 U	200 U	5.0 U	25 U	50 U
1,1,2,2-Tetrachloroethane	µg/L	500 U	200 U	5.0 UJ	25 UJ	50 U
1,1,2-Trichloroethane	µg/L	500 U	200 U	5.0 U	25 U	50 U
1,1-Dichloroethane	µg/L	500 U	200 U	5.0 U	25 U	50 U
1,1-Dichloroethene	µg/L	500 U	200 U	1.3 J	25 U	50 U
1,2,4-Trichlorobenzene	µg/L	500 U	200 U	5.0 UJ	25 UJ	50 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	500 U	200 U	5.0 UJ	25 UJ	50 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	500 U	200 U	5.0 U	25 UJ	50 U
1,2-Dichlorobenzene	µg/L	500 U	200 U	5.0 U	25 U	50 U
1,2-Dichloroethane	µg/L	500 U	200 U	5.0 U	25 U	50 U
1,2-Dichloropropane	µg/L	500 U	200 U	5.0 U	25 U	50 U
1,3-Dichlorobenzene	µg/L	500 U	200 U	5.0 U	25 U	50 U
1,4-Dichlorobenzene	µg/L	500 U	200 U	5.0 U	25 U	50 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	500 U	200 U	5.0 U	25 U	50 U
2-Hexanone	µg/L	500 U	200 U	5.0 U	25 U	50 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	500 U	200 U	5.0 U	25 U	50 U
Acetone	µg/L	2000 UJ	800 UJ	20 U	100 U	110 J
Benzene	µg/L	500 U	200 U	5.0 U	25 U	50 U
Bromodichloromethane	µg/L	500 U	200 U	5.0 U	25 U	50 U
Bromoform	µg/L	500 U	200 U	5.0 U	25 UJ	50 U
Bromomethane (Methyl Bromide)	µg/L	500 U	200 U	5.0 U	25 U	50 U
Carbon disulfide	µg/L	500 U	200 U	5.0 U	25 U	50 U
Carbon tetrachloride	µg/L	500 U	200 U	5.0 U	25 U	50 U
Chlorobenzene	µg/L	500 U	200 U	5.0 U	25 UJ	50 U
Chloroethane	µg/L	500 U	200 U	5.0 U	25 U	50 U
Chloroform (Trichloromethane)	µg/L	500 U	200 U	5.0 U	25 U	50 U
Chloromethane (Methyl Chloride)	µg/L	500 U	200 U	5.0 U	25 U	50 U
cis-1,2-Dichloroethene	µg/L	410 J	1100	89	620	890
cis-1,3-Dichloropropene	µg/L	500 U	200 U	5.0 U	25 U	50 U
Cyclohexane	µg/L	500 U	200 U	5.0 U	25 U	50 U

TABLE 3A

ANALYTICAL RESULTS SUMMARY
SITE INVESTIGATION - GROUNDWATER
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

	Sample Location:	*MW-19*	*MW-19A*	*MW-20*	*MW-20A*	*MW-21A*
	Sample ID:	*WG-37191-072009-002*	*WG-37191-072009-001*	*WG-37191-072209-032*	*WG-37191-072209-031*	*WG-37191-072109-016*
	Sample Date:	*7/20/2009*	*7/20/2009*	*7/22/2009*	*7/22/2009*	*7/21/2009*
Parameters	*Units*					
Volatile Organic Compounds (Cont'd.)						
Dibromochloromethane	µg/L	500 U	200 U	5.0 U	25 UJ	50 U
Dichlorodifluoromethane (CFC-12)	µg/L	500 U	200 U	5.0 U	25 U	50 U
Ethylbenzene	µg/L	500 U	200 U	5.0 U	25 UJ	50 U
Isopropylbenzene	µg/L	500 U	200 U	5.0 U	25 UJ	50 U
Methyl acetate	µg/L	500 U	200 U	5.0 UJ	25 UJ	50 U
Methyl cyclohexane	µg/L	500 U	200 U	5.0 U	25 U	50 U
Methyl Tert Butyl Ether	µg/L	500 U	200 U	5.0 U	25 U	50 U
Methylene chloride	µg/L	500 U	200 U	5.0 U	5.9 J	50 U
Styrene	µg/L	500 U	200 U	5.0 U	25 UJ	50 U
Tetrachloroethene	µg/L	500 U	200 U	5.0 U	25 U	50 U
Toluene	µg/L	500 U	200 U	5.0 U	25 U	50 U
trans-1,2-Dichloroethene	µg/L	500 U	200 U	3.0 J	5.5 J	11 J
trans-1,3-Dichloropropene	µg/L	500 U	200 U	5.0 U	25 U	50 U
Trichloroethene	µg/L	15000	4600	19	200	2400
Trichlorofluoromethane (CFC-11)	µg/L	500 U	200 U	5.0 U	25 U	50 U
Trifluorotrichloroethane (Freon 113)	µg/L	500 U	200 U	5.0 U	25 U	50 U
Vinyl chloride	µg/L	500 U	70 J	5.5	14 J	26 J
Xylene (total)	µg/L	1500 U	600 U	15 U	75 UJ	44 J

TABLE 3A

ANALYTICAL RESULTS SUMMARY
SITE INVESTIGATION - GROUNDWATER
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

Parameters	*Units*	*Sample Location:* *MW-21A* *Sample ID:* *WG-37191-072109-017* *Sample Date:* *7/21/2009* *Field Duplicate*	*MW-22* *WG-37191-072009-004* *7/20/2009*	*MW-22A* *WG-37191-072009-003* *7/20/2009*	*MW-23A* *WG-37191-072009-007* *7/20/2009*	*MW-23A* *WG-37191-072009-008* *7/20/2009* *Field Duplicate*
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	2.5 J	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
2-Hexanone	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	µg/L	20 UJ	20 UJ	11 J	20 UJ	20 UJ
Benzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl Bromide)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Chloromethane (Methyl Chloride)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	710 J	1.5 J	5.0 U	0.99 J	5.0 U
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Cyclohexane	µg/L	5.0 U	5.0 U	22	7.4	7.4

TABLE 3A

ANALYTICAL RESULTS SUMMARY
SITE INVESTIGATION - GROUNDWATER
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

Parameters	Units	Sample Location: MW-21A Sample ID: WG-37191-072109-017 Sample Date: 7/21/2009 Field Duplicate	Sample Location: MW-22 Sample ID: WG-37191-072009-004 Sample Date: 7/20/2009	Sample Location: MW-22A Sample ID: WG-37191-072009-003 Sample Date: 7/20/2009	Sample Location: MW-23A Sample ID: WG-37191-072009-007 Sample Date: 7/20/2009	Sample Location: MW-23A Sample ID: WG-37191-072009-008 Sample Date: 7/20/2009 Field Duplicate
Volatile Organic Compounds (Cont'd.)						
Dibromochloromethane	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	µg/L	5.0 U	5.0 U	1.0 J	5.0 U	5.0 U
Isopropylbenzene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl cyclohexane	µg/L	5.0 U	5.0 U	17	5.3	5.4
Methyl Tert Butyl Ether	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	7.2	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	µg/L	1900 J	30	5.0 U	1.6 J	5.0 U
Trichlorofluoromethane (CFC-11)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Trifluorotrichloroethane (Freon 113)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Vinyl chloride	µg/L	42	5.0 U	5.0 U	5.0 U	5.0 U
Xylene (total)	µg/L	15 U	4.3 J	11 J	6.9 J	6.9 J

TABLE 3A

ANALYTICAL RESULTS SUMMARY
SITE INVESTIGATION - GROUNDWATER
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

	Sample Location:	*MW-24A*	*MW-25A*
	Sample ID:	*WG-37191-072009-010*	*WG-37191-072009-009*
	Sample Date:	*7/20/2009*	*7/20/2009*
Parameters	*Units*		
Volatile Organic Compounds			
1,1,1-Trichloroethane	µg/L	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	5.0 U
1,1-Dichloroethene	µg/L	5.0 U	5.0 U
1,2,4-Trichlorobenzene	µg/L	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	5.0 U	5.0 U
1,2-Dichlorobenzene	µg/L	5.0 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	5.0 U
1,3-Dichlorobenzene	µg/L	5.0 U	5.0 U
1,4-Dichlorobenzene	µg/L	5.0 U	5.0 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	5.0 U	5.0 U
2-Hexanone	µg/L	5.0 U	5.0 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	5.0 U	5.0 U
Acetone	µg/L	20 UJ	11 J
Benzene	µg/L	5.0 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	5.0 U
Bromoform	µg/L	5.0 U	5.0 U
Bromomethane (Methyl Bromide)	µg/L	5.0 U	5.0 U
Carbon disulfide	µg/L	5.0 U	5.0 U
Carbon tetrachloride	µg/L	5.0 U	5.0 U
Chlorobenzene	µg/L	5.0 U	5.0 U
Chloroethane	µg/L	5.0 U	5.0 UJ
Chloroform (Trichloromethane)	µg/L	5.0 U	5.0 U
Chloromethane (Methyl Chloride)	µg/L	5.0 U	5.0 UJ
cis-1,2-Dichloroethene	µg/L	5.0 U	5.0 U
cis-1,3-Dichloropropene	µg/L	5.0 U	5.0 U
Cyclohexane	µg/L	0.78 J	5.0 U

TABLE 3A

ANALYTICAL RESULTS SUMMARY
SITE INVESTIGATION - GROUNDWATER
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

	Sample Location:	*MW-24A*	*MW-25A*
	Sample ID:	*WG-37191-072009-010*	*WG-37191-072009-009*
	Sample Date:	*7/20/2009*	*7/20/2009*
Parameters	*Units*		
Volatile Organic Compounds (Cont'd.)			
Dibromochloromethane	µg/L	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	5.0 U	5.0 UJ
Ethylbenzene	µg/L	5.0 U	5.0 U
Isopropylbenzene	µg/L	5.0 U	5.0 U
Methyl acetate	µg/L	5.0 U	5.0 U
Methyl cyclohexane	µg/L	1.2 J	5.0 U
Methyl Tert Butyl Ether	µg/L	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	5.0 U
Styrene	µg/L	5.0 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	5.0 U
Toluene	µg/L	5.0 U	5.0 U
trans-1,2-Dichloroethene	µg/L	5.0 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	5.0 U
Trichloroethene	µg/L	5.0 U	1.1 J
Trichlorofluoromethane (CFC-11)	µg/L	5.0 U	5.0 U
Trifluorotrichloroethane (Freon 113)	µg/L	5.0 U	5.0 U
Vinyl chloride	µg/L	5.0 U	5.0 U
Xylene (total)	µg/L	4.4 J	15 U

Notes:

J - Estimated.
U - Not detected.
UJ - Not detected, estimated reporting limit.

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SITE INVESTIGATION - SOIL
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

	Sample Location:	*MW-6A*	*MW-19*	*MW-19*	*MW-19A*
	Sample ID:	*SO-37191-052709-JJW-001*	*SO-37191-060409-JJW-008*	*SO-37191-060409-JJW-009*	*SO-37191-052709-JJW-002*
	Sample Date:	*5/27/2009*	*6/4/2009*	*6/4/2009*	*5/27/2009*
	Sample Depth:	*6-8 ft BGS*	*6-8 ft BGS*	*6-8 ft BGS*	*6-8 ft BGS*
				Field Duplicate	
Parameters	*Units*				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	6.3 U	280 U	280 U	290 U
1,1,2,2-Tetrachloroethane	µg/kg	6.3 UJ	280 U	280 U	290 UJ
1,1,2-Trichloroethane	µg/kg	6.3 U	280 U	280 U	290 U
1,1-Dichloroethane	µg/kg	6.3 U	280 U	280 U	290 U
1,1-Dichloroethene	µg/kg	6.3 U	280 U	280 U	290 U
1,2,4-Trichlorobenzene	µg/kg	6.3 U	280 U	280 U	290 UJ
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	6.3 U	280 U	280 U	290 UJ
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	6.3 U	280 U	280 U	290 U
1,2-Dichlorobenzene	µg/kg	6.3 U	280 U	280 U	290 U
1,2-Dichloroethane	µg/kg	6.3 U	280 U	280 U	290 U
1,2-Dichloropropane	µg/kg	6.3 U	280 U	280 U	290 U
1,3-Dichlorobenzene	µg/kg	6.3 U	280 U	280 U	290 U
1,4-Dichlorobenzene	µg/kg	6.3 U	280 U	280 U	290 U
2-Butanone (Methyl Ethyl Ketone)	µg/kg	6.3 UJ	240 J	260 J	290 U
2-Hexanone	µg/kg	6.3 UJ	280 UJ	280 UJ	290 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	6.3 UJ	280 UJ	280 UJ	290 U
Acetone	µg/kg	11 J	1100 UJ	1100 UJ	1200 UJ
Benzene	µg/kg	6.3 U	280 U	280 U	290 U
Bromodichloromethane	µg/kg	6.3 U	280 U	280 U	290 U
Bromoform	µg/kg	6.3 U	280 U	280 U	290 U
Bromomethane (Methyl Bromide)	µg/kg	6.3 U	280 U	280 U	290 U
Carbon disulfide	µg/kg	6.3 U	280 U	280 U	290 U
Carbon tetrachloride	µg/kg	6.3 U	280 U	280 U	290 U
Chlorobenzene	µg/kg	6.3 U	280 U	280 U	290 U
Chloroethane	µg/kg	6.3 U	280 U	280 U	290 U
Chloroform (Trichloromethane)	µg/kg	6.3 U	280 U	280 U	290 U
Chloromethane (Methyl Chloride)	µg/kg	6.3 U	280 U	280 U	290 U
cis-1,2-Dichloroethene	µg/kg	29	280 U	280 U	290 U
cis-1,3-Dichloropropene	µg/kg	6.3 U	280 U	280 U	290 U

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SITE INVESTIGATION - SOIL
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

	Sample Location:	*MW-6A*	*MW-19*	*MW-19*	*MW-19A*
	Sample ID:	*SO-37191-052709-JJW-001*	*SO-37191-060409-JJW-008*	*SO-37191-060409-JJW-009*	*SO-37191-052709-JJW-002*
	Sample Date:	*5/27/2009*	*6/4/2009*	*6/4/2009*	*5/27/2009*
	Sample Depth:	*6-8 ft BGS*	*6-8 ft BGS*	*6-8 ft BGS* *Field Duplicate*	*6-8 ft BGS*
Parameters	*Units*				
Volatile Organic Compounds (Cont'd.)					
Cyclohexane	µg/kg	6.3 U	280 U	280 U	290 U
Dibromochloromethane	µg/kg	6.3 U	280 U	280 U	290 U
Dichlorodifluoromethane (CFC-12)	µg/kg	6.3 U	280 UJ	280 UJ	290 U
Ethylbenzene	µg/kg	6.3 U	280 U	280 U	290 U
Isopropylbenzene	µg/kg	6.3 U	280 U	280 U	290 U
Methyl acetate	µg/kg	6.3 U	280 UJ	280 UJ	290 UJ
Methyl cyclohexane	µg/kg	6.3 U	280 U	280 U	290 U
Methyl Tert Butyl Ether	µg/kg	6.3 U	280 U	280 U	290 U
Methylene chloride	µg/kg	6.3 U	280 U	280 U	290 U
Styrene	µg/kg	6.3 U	280 U	280 U	290 U
Tetrachloroethene	µg/kg	6.3 U	46 J	53 J	78 J
Toluene	µg/kg	6.3 U	280 U	280 U	290 U
trans-1,2-Dichloroethene	µg/kg	6.3 U	280 U	280 U	290 U
trans-1,3-Dichloropropene	µg/kg	6.3 U	280 U	280 U	290 U
Trichloroethene	µg/kg	21	1800	1300	4600
Trichlorofluoromethane (CFC-11)	µg/kg	6.3 U	280 UJ	280 UJ	290 U
Trifluorotrichloroethane (Freon 113)	µg/kg	6.3 U	280 U	280 U	290 U
Vinyl chloride	µg/kg	6.3 U	280 U	280 U	290 U
Xylene (total)	µg/kg	19 U	830 U	830 U	880 U
Wet Chemistry					
Total Solids	%	79.5	90.8	89.8	85.2

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SITE INVESTIGATION - SOIL
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

	Sample Location:	*MW-20*	*MW-20A*	*MW-21A*	*MW-22*
	Sample ID:	*SO-37191-060409-JJW-007*	*SO-37191-060109-JJW-003*	*SO-37191-060109-JJW-004*	*SO-37191-060809-JJW-010*
	Sample Date:	*6/4/2009*	*6/1/2009*	*6/1/2009*	*6/8/2009*
	Sample Depth:	*2-4 ft BGS*	*6-8 ft BGS*	*2-4 ft BGS*	*10-12 ft BGS*
Parameters	*Units*				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
1,1,2,2-Tetrachloroethane	µg/kg	6.2 U	6.1 U	6.3 U	5.7 UJ
1,1,2-Trichloroethane	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
1,1-Dichloroethane	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
1,1-Dichloroethene	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
1,2,4-Trichlorobenzene	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	6.2 UJ	6.1 UJ	6.3 UJ	5.7 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
1,2-Dichlorobenzene	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
1,2-Dichloroethane	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
1,2-Dichloropropane	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
1,3-Dichlorobenzene	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
1,4-Dichlorobenzene	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
2-Butanone (Methyl Ethyl Ketone)	µg/kg	6.2 UJ	6.1 U	6.3 U	5.7 U
2-Hexanone	µg/kg	6.2 UJ	6.1 UJ	6.3 UJ	5.7 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
Acetone	µg/kg	25 UJ	24 UJ	25 UJ	23 UJ
Benzene	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
Bromodichloromethane	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
Bromoform	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
Bromomethane (Methyl Bromide)	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
Carbon disulfide	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
Carbon tetrachloride	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
Chlorobenzene	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
Chloroethane	µg/kg	6.2 UJ	6.1 UJ	6.3 UJ	5.7 UJ
Chloroform (Trichloromethane)	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
Chloromethane (Methyl Chloride)	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
cis-1,2-Dichloroethene	µg/kg	6.2 U	6.1 U	1.0 J	5.7 U
cis-1,3-Dichloropropene	µg/kg	6.2 U	6.1 UJ	6.3 UJ	5.7 U

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SITE INVESTIGATION - SOIL
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

	Sample Location:	MW-20	MW-20A	MW-21A	MW-22
	Sample ID:	SO-37191-060409-JJW-007	SO-37191-060109-JJW-003	SO-37191-060109-JJW-004	SO-37191-060809-JJW-010
	Sample Date:	6/4/2009	6/1/2009	6/1/2009	6/8/2009
	Sample Depth:	2-4 ft BGS	6-8 ft BGS	2-4 ft BGS	10-12 ft BGS
Parameters	*Units*				
Volatile Organic Compounds (Cont'd.)					
Cyclohexane	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
Dibromochloromethane	µg/kg	6.2 U	6.1 UJ	6.3 UJ	5.7 U
Dichlorodifluoromethane (CFC-12)	µg/kg	6.2 U	6.1 U	6.3 U	5.7 UJ
Ethylbenzene	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
Isopropylbenzene	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
Methyl acetate	µg/kg	6.2 UJ	6.1 UJ	6.3 UJ	5.7 U
Methyl cyclohexane	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
Methyl Tert Butyl Ether	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
Methylene chloride	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
Styrene	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
Tetrachloroethene	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
Toluene	µg/kg	6.2 U	6.1 U	6.3 U	2.2 J
trans-1,2-Dichloroethene	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
trans-1,3-Dichloropropene	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
Trichloroethene	µg/kg	6.2 U	6.1 U	3.7 J	5.7 U
Trichlorofluoromethane (CFC-11)	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
Trifluorotrichloroethane (Freon 113)	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
Vinyl chloride	µg/kg	6.2 U	6.1 U	6.3 U	5.7 U
Xylene (total)	µg/kg	19 U	18 U	19 U	17 U
Wet Chemistry					
Total Solids	%	81.0	82.6	79.6	88.1

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SITE INVESTIGATION - SOIL
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

	Sample Location:	*MW-22A*	*MW-23A*	*MW-24A*	*MW-25*
	Sample ID:	*SO-37191-060109-JJW-005*	*SO-37191-060209-JJW-006*	*SO-37191-062209-JJW-011*	*SO-37191-062209-JJW-013*
	Sample Date:	*6/1/2009*	*6/2/2009*	*6/22/2009*	*6/22/2009*
	Sample Depth:	*10-12 ft BGS*	*12-14 ft BGS*	*0-2 ft BGS*	*6-8 ft BGS*
Parameters	*Units*				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
1,1,2,2-Tetrachloroethane	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
1,1,2-Trichloroethane	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
1,1-Dichloroethane	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
1,1-Dichloroethene	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
1,2,4-Trichlorobenzene	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	6.1 UJ	5.9 UJ	6.5 UJ	5.5 UJ
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
1,2-Dichlorobenzene	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
1,2-Dichloroethane	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
1,2-Dichloropropane	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
1,3-Dichlorobenzene	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
1,4-Dichlorobenzene	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
2-Butanone (Methyl Ethyl Ketone)	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
2-Hexanone	µg/kg	6.1 UJ	5.9 UJ	6.5 U	5.5 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
Acetone	µg/kg	24 UJ	24 UJ	26 U	22 U
Benzene	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
Bromodichloromethane	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
Bromoform	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
Bromomethane (Methyl Bromide)	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
Carbon disulfide	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
Carbon tetrachloride	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
Chlorobenzene	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
Chloroethane	µg/kg	6.1 UJ	5.9 UJ	6.5 U	5.5 U
Chloroform (Trichloromethane)	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
Chloromethane (Methyl Chloride)	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
cis-1,2-Dichloroethene	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
cis-1,3-Dichloropropene	µg/kg	6.1 UJ	5.9 UJ	6.5 U	5.5 U

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SITE INVESTIGATION - SOIL
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

	Sample Location:	*MW-22A*	*MW-23A*	*MW-24A*	*MW-25*
	Sample ID:	*SO-37191-060109-JJW-005*	*SO-37191-060209-JJW-006*	*SO-37191-062209-JJW-011*	*SO-37191-062209-JJW-013*
	Sample Date:	*6/1/2009*	*6/2/2009*	*6/22/2009*	*6/22/2009*
	Sample Depth:	*10-12 ft BGS*	*12-14 ft BGS*	*0-2 ft BGS*	*6-8 ft BGS*
Parameters	*Units*				
Volatile Organic Compounds (Cont'd.)					
Cyclohexane	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
Dibromochloromethane	µg/kg	6.1 UJ	5.9 UJ	6.5 U	5.5 U
Dichlorodifluoromethane (CFC-12)	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
Ethylbenzene	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
Isopropylbenzene	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
Methyl acetate	µg/kg	6.1 UJ	5.9 UJ	6.5 U	5.5 U
Methyl cyclohexane	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
Methyl Tert Butyl Ether	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
Methylene chloride	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
Styrene	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
Tetrachloroethene	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
Toluene	µg/kg	6.1 U	5.9 U	1.1 J	5.5 U
trans-1,2-Dichloroethene	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
trans-1,3-Dichloropropene	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
Trichloroethene	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
Trichlorofluoromethane (CFC-11)	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
Trifluorotrichloroethane (Freon 113)	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
Vinyl chloride	µg/kg	6.1 U	5.9 U	6.5 U	5.5 U
Xylene (total)	µg/kg	18 U	18 U	20 U	17 U
Wet Chemistry					
Total Solids	%	82.2	84.9	76.6	90.8

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SITE INVESTIGATION - SOIL
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

	Sample Location:	***MW-25A***
	Sample ID:	***SO-37191-062209-JJW-012***
	Sample Date:	***6/22/2009***
	Sample Depth:	***4-6 ft BGS***
Parameters	***Units***	
Volatile Organic Compounds		
1,1,1-Trichloroethane	µg/kg	6.0 U
1,1,2,2-Tetrachloroethane	µg/kg	6.0 U
1,1,2-Trichloroethane	µg/kg	6.0 U
1,1-Dichloroethane	µg/kg	6.0 U
1,1-Dichloroethene	µg/kg	6.0 U
1,2,4-Trichlorobenzene	µg/kg	6.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	6.0 UJ
1,2-Dibromoethane (Ethylene Dibromide)	µg/kg	6.0 U
1,2-Dichlorobenzene	µg/kg	6.0 U
1,2-Dichloroethane	µg/kg	6.0 U
1,2-Dichloropropane	µg/kg	6.0 U
1,3-Dichlorobenzene	µg/kg	6.0 U
1,4-Dichlorobenzene	µg/kg	6.0 U
2-Butanone (Methyl Ethyl Ketone)	µg/kg	6.0 U
2-Hexanone	µg/kg	6.0 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/kg	6.0 U
Acetone	µg/kg	24 U
Benzene	µg/kg	6.0 U
Bromodichloromethane	µg/kg	6.0 U
Bromoform	µg/kg	6.0 U
Bromomethane (Methyl Bromide)	µg/kg	6.0 U
Carbon disulfide	µg/kg	6.0 U
Carbon tetrachloride	µg/kg	6.0 U
Chlorobenzene	µg/kg	6.0 U
Chloroethane	µg/kg	6.0 U
Chloroform (Trichloromethane)	µg/kg	6.0 U
Chloromethane (Methyl Chloride)	µg/kg	6.0 U
cis-1,2-Dichloroethene	µg/kg	6.0 U
cis-1,3-Dichloropropene	µg/kg	6.0 U

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SITE INVESTIGATION - SOIL
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

	Sample Location:	*MW-25A*
	Sample ID:	*SO-37191-062209-JJW-012*
	Sample Date:	*6/22/2009*
	Sample Depth:	*4-6 ft BGS*
Parameters	*Units*	
Volatile Organic Compounds (Cont'd.)		
Cyclohexane	µg/kg	6.0 U
Dibromochloromethane	µg/kg	6.0 U
Dichlorodifluoromethane (CFC-12)	µg/kg	6.0 U
Ethylbenzene	µg/kg	6.0 U
Isopropylbenzene	µg/kg	6.0 U
Methyl acetate	µg/kg	6.0 U
Methyl cyclohexane	µg/kg	6.0 U
Methyl Tert Butyl Ether	µg/kg	6.0 U
Methylene chloride	µg/kg	6.0 U
Styrene	µg/kg	6.0 U
Tetrachloroethene	µg/kg	6.0 U
Toluene	µg/kg	6.0 U
trans-1,2-Dichloroethene	µg/kg	6.0 U
trans-1,3-Dichloropropene	µg/kg	6.0 U
Trichloroethene	µg/kg	6.0 U
Trichlorofluoromethane (CFC-11)	µg/kg	6.0 U
Trifluorotrichloroethane (Freon 113)	µg/kg	6.0 U
Vinyl chloride	µg/kg	6.0 U
Xylene (total)	µg/kg	18 U
Wet Chemistry		
Total Solids	%	83.1

Notes:

J - Estimated.
U - Not detected.
UJ - Not detected, estimated reporting limit.

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING INITIAL CALIBRATION RESULTS
SITE INVESTIGATION - SOIL AND GROUNDWATER
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

Parameter	*Compound*	*Calibration Date*	*R^2*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
VOCs	1,2-Dibromo-3-chloropropane (DBCP)	6/29/09	31	SO-37191-062209-JJW-011	6.5 UJ	µg/Kg
				SO-37191-062209-JJW-012	6.0 UJ	µg/Kg
				SO-37191-062209-JJW-013	5.5 UJ	µg/Kg

Notes:

UJ Not detected, estimated reporting limit.
VOCs Volatile Organic Compounds.

TABLE 5

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
SITE INVESTIGATION - SOIL AND GROUNDWATER
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
VOCs	8/4/09	1,1,2,2-Tetrachloroethane	39	WG-37191-072209-029	5.0 UJ	µg/L
				WG-37191-072209-030	5.0 UJ	µg/L
				WG-37191-072209-031	25 UJ	µg/L
				WG-37191-072209-032	5.0 UJ	µg/L
				WG-37191-072209-033	12 UJ	µg/L
				WG-37191-072209-034	1200 UJ	µg/L
				WG-37191-072209-035	50 UJ	µg/L
				WG-37191-072209-036	120 UJ	µg/L
				WG-37191-072209-037	120 UJ	µg/L
				WG-37191-072209-039	1000 UJ	µg/L
				WG-37191-072209-042	50 UJ	µg/L
VOCs	8/4/09	1,2,4-Trichlorobenzene	32	WG-37191-072209-029	5.0 UJ	µg/L
				WG-37191-072209-032	5.0 UJ	µg/L
				WG-37191-072209-030	5.0 UJ	µg/L
				WG-37191-072209-033	12 UJ	µg/L
				WG-37191-072209-031	25 UJ	µg/L
				WG-37191-072209-034	1200 UJ	µg/L
				WG-37191-072209-035	50 UJ	µg/L
				WG-37191-072209-036	120 UJ	µg/L
				WG-37191-072209-037	120 UJ	µg/L
				WG-37191-072209-039	1000 UJ	µg/L
				WG-37191-072209-042	50 UJ	µg/L
VOCs	8/4/09	1,2-Dibromo-3-chloropropane (DBCP)	48	WG-37191-072209-031	25 UJ	µg/L
				WG-37191-072209-029	5.0 UJ	µg/L
				WG-37191-072209-030	5.0 UJ	µg/L
				WG-37191-072209-032	5.0 UJ	µg/L
				WG-37191-072209-033	12 UJ	µg/L
				WG-37191-072209-034	1200 UJ	µg/L
				WG-37191-072209-035	50 UJ	µg/L
				WG-37191-072209-036	120 UJ	µg/L
				WG-37191-072209-037	120 UJ	µg/L

TABLE 5

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
SITE INVESTIGATION - SOIL AND GROUNDWATER
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
				WG-37191-072209-039	1000 UJ	µg/L
				WG-37191-072209-042	50 UJ	µg/L
VOCs	7/30/09	2-Butanone (Methyl Ethyl Ketone)	40	WG-37191-072109-014	5.0 UJ	µg/L
				WG-37191-072109-015	5.0 UJ	µg/L
				WG-37191-072109-018	5.0 UJ	µg/L
				WG-37191-072109-017	5.0 UJ	µg/L
VOCs	7/30/09	Acetone	43	WG-37191-072109-017	20 UJ	µg/L
				WG-37191-072109-014	20 UJ	µg/L
				WG-37191-072109-015	20 UJ	µg/L
				WG-37191-072109-018	20 UJ	µg/L
VOCs	7/31/09	Acetone	40	WG-37191-072009-001	800 UJ	µg/L
				WG-37191-072009-002	2000 UJ	µg/L
VOCs	7/31/09	Acetone	40	WG-37191-072009-003	11 J	µg/L
				WG-37191-072009-004	20 UJ	µg/L
				WG-37191-072009-005	20 UJ	µg/L
				WG-37191-072009-006	12 J	µg/L
				WG-37191-072009-007	20 UJ	µg/L
				WG-37191-072009-008	20 UJ	µg/L
				WG-37191-072009-010	20 UJ	µg/L
				WG-37191-072009-011	20 UJ	µg/L
				WG-37191-072009-012	20 UJ	µg/L
				WG-37191-072009-013	11 J	µg/L
				WG-37191-072109-016	110 J	µg/L
VOCs	7/30/09	Acetone	44	WG-37191-072009-009	11 J	µg/L
VOCs	7/30/09	Chloroethane	32	WG-37191-072009-009	5.0 UJ	µg/L
VOCs	7/30/09	Chloromethane (Methyl Chloride)	28	WG-37191-072009-009	5.0 UJ	µg/L

TABLE 5

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
SITE INVESTIGATION - SOIL AND GROUNDWATER
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
VOCs	7/30/09	Dichlorodifluoromethane (CFC-12)	40	WG-37191-072009-009	5.0 UJ	µg/L
VOCs	8/4/09	Methyl acetate	30	WG-37191-072209-031	25 UJ	µg/L
				WG-37191-072209-029	5.0 UJ	µg/L
				WG-37191-072209-030	5.0 UJ	µg/L
				WG-37191-072209-032	5.0 UJ	µg/L
VOCs	8/4/09	Methyl acetate	30	WG-37191-072209-033	12 UJ	µg/L
				WG-37191-072209-034	1200 UJ	µg/L
				WG-37191-072209-035	50 UJ	µg/L
				WG-37191-072209-036	120 UJ	µg/L
				WG-37191-072209-037	120 UJ	µg/L
				WG-37191-072209-039	1000 UJ	µg/L
				WG-37191-072209-042	50 UJ	µg/L
VOCs	6/1/09	1,1,2,2-Tetrachloroethane	29	SO-37191-052709-JJW-001	6.3 UJ	µg/Kg
VOCs	6/4/09	1,1,2,2-Tetrachloroethane	27	SO-37191-052709-JJW-002	290 UJ	µg/Kg
VOCs	6/15/09	1,1,2,2-Tetrachloroethane	29	SO-37191-060809-JJW-010	5.7 UJ	µg/Kg
VOCs	6/4/09	1,2,4-Trichlorobenzene	33	SO-37191-052709-JJW-002	290 UJ	µg/Kg
VOCs	6/4/09	1,2-Dibromo-3-chloropropane (DBCP)	43	SO-37191-052709-JJW-002	290 UJ	µg/Kg
VOCs	6/5/09	1,2-Dibromo-3-chloropropane (DBCP)	28	SO-37191-060109-JJW-003	6.1 UJ	µg/Kg
				SO-37191-060109-JJW-004	6.3 UJ	µg/Kg
				SO-37191-060109-JJW-005	6.1 UJ	µg/Kg
				SO-37191-060209-JJW-006	5.9 UJ	µg/Kg
VOCs	6/10/09	1,2-Dibromo-3-chloropropane (DBCP)	29	SO-37191-060409-JJW-007	6.2 UJ	µg/Kg
VOCs	6/10/09	2-Butanone (Methyl Ethyl Ketone)	35	SO-37191-060409-JJW-007	6.2 UJ	µg/Kg

TABLE 5

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
SITE INVESTIGATION - SOIL AND GROUNDWATER
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
VOCs	6/18/09	2-Butanone (Methyl Ethyl Ketone)	37	SO-37191-060409-JJW-00840	280 J	µg/Kg
				SO-37191-060409-JJW-00950	280 J	µg/Kg
VOCs	6/1/2009	2-Butanone (Methyl Ethyl Ketone)	27	SO-37191-052709-JJW-001	6.3 UJ	µg/Kg
VOCs	6/5/09	2-Hexanone	32	SO-37191-060109-JJW-003	6.1 UJ	µg/Kg
				SO-37191-060109-JJW-004	6.3 UJ	µg/Kg
				SO-37191-060109-JJW-005	6.1 UJ	µg/Kg
				SO-37191-060209-JJW-006	5.9 UJ	µg/Kg
VOCs	6/10/09	2-Hexanone	26	SO-37191-060409-JJW-007	6.2 UJ	µg/Kg
VOCs	6/18/09	2-Hexanone	75	SO-37191-060409-JJW-008	280 UJ	µg/Kg
				SO-37191-060409-JJW-009	280 UJ	µg/Kg
VOCs	6/1/2009	2-Hexanone	47	SO-37191-052709-JJW-001	6.3 UJ	µg/Kg
VOCs	6/18/09	4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	50	SO-37191-060409-JJW-008	280 UJ	µg/Kg
				SO-37191-060409-JJW-009	280 UJ	µg/Kg
VOCs	6/1/2009	4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	35	SO-37191-052709-JJW-001	6.3 UJ	µg/Kg
VOCs	6/4/09	Acetone	32	SO-37191-052709-JJW-002	1200 UJ	µg/Kg
VOCs	6/5/09	Acetone	34	SO-37191-060109-JJW-003	24 UJ	µg/Kg
				SO-37191-060109-JJW-004	25 UJ	µg/Kg
				SO-37191-060109-JJW-005	24 UJ	µg/Kg
				SO-37191-060209-JJW-006	24 UJ	µg/Kg
VOCs	6/10/09	Acetone	32	SO-37191-060409-JJW-007	25 UJ	µg/Kg
VOCs	6/15/09	Acetone	31	SO-37191-060809-JJW-010	23 UJ	µg/Kg

TABLE 5

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
SITE INVESTIGATION - SOIL AND GROUNDWATER
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
VOCs	6/18/09	Acetone	64	SO-37191-060409-JJW-008	1100 UJ	µg/Kg
				SO-37191-060409-JJW-009	1100 UJ	µg/Kg
VOCs	6/1/2009	Acetone	34	SO-37191-052709-JJW-00111	25 J	µg/Kg
VOCs	6/5/09	Chloroethane	32	SO-37191-060109-JJW-003	6.1 UJ	µg/Kg
				SO-37191-060109-JJW-004	6.3 UJ	µg/Kg
				SO-37191-060109-JJW-005	6.1 UJ	µg/Kg
				SO-37191-060209-JJW-006	5.9 UJ	µg/Kg
VOCs	6/10/09	Chloroethane	28	SO-37191-060409-JJW-007	6.2 UJ	µg/Kg
VOCs	6/15/09	Chloroethane	27	SO-37191-060809-JJW-010	5.7 UJ	µg/Kg
VOCs	6/5/09	cis-1,3-Dichloropropene	30	SO-37191-060109-JJW-003	6.1 UJ	µg/Kg
				SO-37191-060109-JJW-004	6.3 UJ	µg/Kg
				SO-37191-060109-JJW-005	6.1 UJ	µg/Kg
				SO-37191-060209-JJW-006	5.9 UJ	µg/Kg
VOCs	6/5/09	Dibromochloromethane	26	SO-37191-060109-JJW-003	6.1 UJ	µg/Kg
				SO-37191-060109-JJW-004	6.3 UJ	µg/Kg
				SO-37191-060109-JJW-005	6.1 UJ	µg/Kg
				SO-37191-060209-JJW-006	5.9 UJ	µg/Kg
VOCs	6/15/09	Dichlorodifluoromethane (CFC-12)	29	SO-37191-060809-JJW-010	5.7 UJ	µg/Kg
VOCs	6/18/09	Dichlorodifluoromethane (CFC-12)	34	SO-37191-060409-JJW-008	280 UJ	µg/Kg
				SO-37191-060409-JJW-009	280 UJ	µg/Kg
VOCs	6/4/09	Methyl acetate	48	SO-37191-052709-JJW-002	290 UJ	µg/Kg
VOCs	6/5/09	Methyl acetate	30	SO-37191-060109-JJW-003	6.1 UJ	µg/Kg
				SO-37191-060109-JJW-004	6.3 UJ	µg/Kg

TABLE 5

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
SITE INVESTIGATION - SOIL AND GROUNDWATER
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
				SO-37191-060109-JJW-005	6.1 UJ	µg/Kg
				SO-37191-060209-JJW-006	5.9 UJ	µg/Kg
VOCs	6/10/09	Methyl acetate	28	SO-37191-060409-JJW-007	6.2 UJ	µg/Kg
VOCs	6/18/09	Methyl acetate	37	SO-37191-060409-JJW-008	280 UJ	µg/Kg
				SO-37191-060409-JJW-009	280 UJ	µg/Kg
VOCs	6/18/09	Trichlorofluoromethane (CFC-11)	29	SO-37191-060409-JJW-008	280 UJ	µg/Kg
				SO-37191-060409-JJW-009	280 UJ	µg/Kg

Notes:

%D Percent Difference.
J Estimated.
UJ Not detected, estimated reporting limit.
VOCs Volatile Organic Compounds.

TABLE 6

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
SITE INVESTIGATION - SOIL AND GROUNDWATER
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*
VOCs	8/4/09	1,2,4-Trichlorobenzene	1.0	WG-37191-072209-029	5.0 U
				WG-37191-072209-032	5.0 U
				WG-37191-072209-033	12 U
VOCs	07/31/09	Toluene	2.4	WG-37191-072009-003	5.0 U
		Toluene		WG-37191-072009-007	5.0 U
		Toluene		WG-37191-072009-008	5.0 U
VOCs	6/1-7/3/09	Methylene chloride	2.0	SO-37191-052709-JJW-001	6.3 U
				SO-37191-060109-JJW-003	6.1 U
				SO-37191-060109-JJW-004	6.3 U
				SO-37191-060109-JJW-005	6.1 U
				SO-37191-060209-JJW-006	5.9 U
				SO-37191-060409-JJW-007	6.2 U
				SO-37191-060809-JJW-010	5.7 U
				SO-37191-062209-JJW-011	6.5 U
				SO-37191-062209-JJW-012	6.0 U
				SO-37191-062209-JJW-013	5.5 U

Notes:

U Not detected.
VOCs Volatile Organic Compounds.

TABLE 7

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING INTERNAL STANDARD (IS) RECOVERIES
SITE INVESTIGATION - SOIL AND GROUNDWATER
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY - JULY 2009

Parameter	*Sample ID*	*IS*	*IS Area Count (percent)*	*Control Limits (percent)*	*Analytes*	*Qualified Sample Results*	*Units*
VOCs	WG-37191-072209-031	1,4-Dichlorobenzene-d4	47	50-200	1,2-Dibromoethane (Ethylene Dibromide)	25 UJ	µg/L
					Bromoform	25 UJ	µg/L
					Chlorobenzene	25 UJ	µg/L
					Dibromochloromethane	25 UJ	µg/L
					Ethylbenzene	25 UJ	µg/L
					Isopropylbenzene	25 UJ	µg/L
					Styrene	25 UJ	µg/L
					Xylene (total)	75 UJ	µg/L

Notes:

U Not detected.
VOCs Volatile Organic Compounds.

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MEMORANDUM

TO:	Dennis Hoyt	REF. NO.:	037191
FROM:	Kathy Shaw/lo/1/CT	DATE:	March 24, 2009
RE:	Data Quality Assessment and Validation Supplemental Groundwater Investigation Former Buffalo China Site – Buffalo, New York		

The following details a quality assessment and validation of the analytical data resulting from the January and March 2009, collection of 17 groundwater and seven (7) quality control samples from the Former Buffalo China Site in Buffalo, New York. The sample summary detailing sample identification, sample location, quality control samples, and analytical parameters is presented in Table 1. Sample analysis was completed at TestAmerica in Knoxville, Tennessee (TA) in accordance with the methodologies presented in Table 2.

The Quality Control (QC) criteria used to assess the data were established by the methods and the Quality Assurance Project Plan (QAPP). Summaries of the analytical data are presented in Table 3. Application of quality assurance criteria was consistent with following guidance documents:

i) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", EPA 540/R-99/008, October 1999; and

These guidelines are collectively referred to as "Guidelines" in this memorandum.

Sample Quantitation

The laboratory reported any detected concentrations of volatile organic compounds (VOC), observed below the laboratory's report limit (RL) but above the laboratory's method detection limit (MDL) with a flag. The laboratory flagged these sample concentrations with a "J", and should be qualified as estimated (J) values unless qualified otherwise in this memorandum.

Sample Preservation and Holding Times

Sample holding time periods and preservation requirements are summarized in the analytical methods. All sample extractions and/or analyses were performed within the specified holding times. All samples were properly preserved and cooled to 4°C(±2°C) after collection.

Gas Chromatography/Mass Spectrometer (GC/MS) – Tuning and Mass Calibration (Instrument Performance Check) – Organic Analyses

To ensure adequate mass resolution, identification, and to some degree, sensitivity; the performance of each GC/MS instrument used for VOC analysis was checked at the beginning of each 12-hour period using bromofluorobenzene (BFB). The resulting spectra must meet the criteria cited in the "Guidelines" before initiating an analysis sequence.

Instrument performance check data were reviewed. These tuning compounds were analyzed at the required frequency throughout the VOC analysis. The results of all instrument performance checks were within the acceptance criteria, indicating acceptable instrument performance.

Initial Calibration – Organic Analyses

Initial calibration data are used to demonstrate that each instrument is capable of generating acceptable quantitative data. A five point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each over a specific concentration range.

Initial calibration criteria for organic analyses are evaluated against the following criteria:

i) GC/MS (all compounds) – must meet a minimum mean relative response factor (RRF) of 0.05; and

ii) GC/MS (all compounds) – the percent relative standard deviation (%RSD) values must not exceed 30.0 percent or a minimum coefficient of determination of 0.99 if quadratic equation calibration curves are used.

Calibration standards were analyzed at the required frequency and the results met the above criteria for linearity and sensitivity.

Continuing Calibration – Organic Analyses

To ensure that each instrument was capable of producing acceptable quantitative data over the analysis period, continuing calibration standards must be analyzed every 12 hours. The following criteria are employed to evaluate the continuing calibration data:

i) GC/MS (all compounds) – must meet a minimum mean RRF of 0.05;

ii) GC/MS (all compounds) – the percent difference between the mean initial calibration RRF and the continuing calibration RRF must not exceed 25 percent; and

iii) GC/MS (compounds determined by quadratic curve) – the percent drift between the true value and the continuing calibration value must not exceed 25 percent.

Calibration standards were analyzed at the required frequency and the results met the above criteria for instrument sensitivity and linearity of response for all analytes of interest, with the exception of the samples outlined in Table 4.

Method Blank Samples

Method blank samples are prepared from a purified sample matrix and are processed concurrently with investigative samples to assess the presence and the magnitude of sample contamination introduced during sample analysis. Method blank samples are analyzed at a minimum frequency of one per analytical batch and target analytes should be non-detect.

Method blanks were analyzed at the recommended frequency and the results were non-detect for all analytes of interest with the exception of the samples outlined in Table 5.

Surrogate Compounds – Organic Analyses

Individual sample performance for organic analyses was monitored by assessing the results of surrogate compound percent recoveries. Surrogate percent recoveries are reviewed against the laboratory developed control limits provided in the analytical report.

All surrogate recoveries met the method criteria, demonstrating acceptable analytical efficiency for these analyses.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)Analyses and
Matrix Spike/Laboratory Duplicate Analyses (MS/Dup)

To assess the long term accuracy and precision of the analytical methods on various matrices, MS/MSD or MS/Dup percent recoveries and relative percent differences (RPD) of the concentrations were determined. The organic MS/MSD percent recovery and RPD control limits are established by the laboratory.

All MS/MSD or MS/Dup recoveries were acceptable indicating good analytical accuracy and precision, with the exception of the samples outlined in Table 6.

Laboratory Control Sample/Laboratory Control Duplicate Analysis

The laboratory control sample and laboratory control duplicate (LCS/LCD) analyses serve as a monitor of the overall performance in all steps of the sample analysis and are analyzed with each sample batch. The LCS/LCD percent recoveries were evaluated against method and laboratory established control limits. The LCS/LCD percent recoveries were within the laboratory control limits or did not warrant qualification, indicating that an acceptable level of overall performance was achieved.

Laboratory precision was verified by the relative percent difference (RPD) of the LCS/LCD when a matrix spike/matrix spike duplicate was not analyzed. The RPDs were within the laboratory control limits, indicating that an acceptable level of overall laboratory precision was achieved.

Internal Standard (IS) Summaries – Organic Analyses

To correct for variability in the GC/MS response and sensitivity, IS compounds are added to all samples. All results are calculated as a ratio of the compound and associated IS response. Overall instrument stability and performance for VOC analysis was monitored using IS peak area and retention time (RT) data. The IS peak areas and RTs of the samples are required to meet the following criteria:

i) IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated continuing calibration standard IS area counts; and

ii) the RT of the IS must not vary by more than plus or minus 30 seconds from the associated continuing calibration standard.

A review of the VOC internal standard data showed that the IS area counts and retention time data were within the acceptance criteria for all samples.

Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound retention time and mass spectra (if applicable) were evaluated according to identification criteria established by the methods. The organic compounds reported adhered to the specified identification criteria.

Target Compound Quantitation

The reported quantitation results and detection limits were checked to ensure results reported were accurate. No discrepancies were found between the raw data and the sample results reported by the laboratory.

Field Quality Assurance/Quality Control (QA/QC)

The field quality assurance/quality control consisted of two (2) field duplicate sample sets, and five (5) trip blank samples.

Overall precision for the sampling event and laboratory procedures was monitored using the results of the field duplicate sample sets. The RPDs associated with these duplicate samples must be less than 50 percent for water. If the reported concentration in either the investigative sample or its duplicate is less than five times the RL, the evaluation criteria is one times the RL value for water. All field duplicate results were acceptable.

To monitor potential cross-contamination of VOC during aqueous sample transportation and storage, a trip blank was submitted to the laboratory for VOC analysis with each shipping cooler containing multiple samples.

All trip blank results were non-detect for the compounds of interest. The trip blanks submitted to the laboratory for the sampling events occurring January 22, 2009 and January 23, 2009 were received broken. The field cross contamination of compounds could not be assessed for those samples.

System Performance

System performance between various quality control checks was evaluated to monitor for changes that may have caused the degradation of data quality. No technical problems or chromatographic anomalies were observed which would require qualification of the data.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used with the qualifications noted.

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
SUPPLEMENTAL GROUNDWATER INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK

				Parameter
Sample Identification	*Sample Location*	*Matrix*	*QC Sample*	*TCL VOC*
GW-37191-011309-JJW-002	MW-4	Water		X
GW-37191-011309-JJW-003	MW-18	Water		X
GW-37191-011309-JJW-004	MW-18	Water	Duplicate (003)	X
GW-37191-011309-JJW-005	MW-12	Water		X
Trip Blank	-	Water	Trip Blank	X
GW-37191-011909-JJW-006	MW-9	Water		X
GW-37191-011909-JJW-007	MW-9A	Water		X
GW-37191-011909-JJW-008	MW-13A	Water		X
GW-37191-012009-JJW-009	MW-6	Water	MS/MSD	X
GW-37191-012009-JJW-010	MW-17	Water		X
GW-37191-012009-JJW-011	MW-5	Water		X
GW-37191-012009-JJW-012	MW-5A	Water		X
Trip Blank	-	Water	Trip Blank	X
GW-37191-012109-JJW-013	MW-7	Water		X
GW-37191-012109-JJW-014	MW-7A	Water		X
GW-37191-012209-JJW-015	MW-10	Water		X
GW-37191-012209-JJW-016	MW-11	Water		X
GW-37191-012209-JJW-017	MW-11	Water	Duplicate (016)	X
GW-37191-012209-JJW-018	MW-14A	Water		X
Trip Blank*	-	Water	Trip Blank	X
GW-37191-012309-JJW-019	MW-15A	Water	MS/MSD	X
Trip Blank*	-	Water	Trip Blank	X
TB-37191-030509	-	Water	Trip Blank	X
WG-37191-030509-001	MW-8	Water		X

TCL - Target Compound List
VOC - Volatile Organic Compounds
QC - Quality Control
MS/MSD - Matrix Spike /Matrix Spike Duplicate

* - These Trip Blank samples were received broken at the lab and could not be analyzed

TABLE 2

SUMMARY OF ANALYTICAL METHODS, HOLDING TIME PERIODS, AND PRESERVATIVES
SUPPLEMENTAL GROUNDWATER INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK

Parameter	*Method*	*Matrix*	*Holding Time*	*Preservation*
TCL VOC	SW-846 8260B	Water	- 14 days from sample collection to completion of analysis.	pH < 2 and Iced, 4 ± 2° C

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, 3rd Edition, and Promulgated updates, November 1986

TABLE 3

ANALYTICAL DATA SUMMARY
SUPPLEMENTAL GROUNDWATER INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK

Location ID:		*MW-8*	*TRIP BLANK*
Sample Name:		*WG-37191-030509-001*	*TB-37191-030509*
Sample Date:		*3/5/2009*	*3/5/2009*
	Units		
Volatile Organic Compounds			
1,1,1-Trichloroethane	ug/L	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	ug/L	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	5.0 U	5.0 U
1,1-Dichloroethane	ug/L	5.0 U	5.0 U
1,1-Dichloroethene	ug/L	5.0 U	5.0 U
1,2,4-Trichlorobenzene	ug/L	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	5.0 UJ	5.0 UJ
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	5.0 U	5.0 U
1,2-Dichlorobenzene	ug/L	5.0 U	5.0 U
1,2-Dichloroethane	ug/L	5.0 U	5.0 U
1,2-Dichloropropane	ug/L	5.0 U	5.0 U
1,3-Dichlorobenzene	ug/L	5.0 U	5.0 U
1,4-Dichlorobenzene	ug/L	5.0 U	5.0 U
2-Butanone (Methyl Ethyl Ketone)	ug/L	5.0 U	57
2-Hexanone	ug/L	5.0 U	5.0 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	5.0 U	5.0 U
Acetone	ug/L	20 UJ	20 UJ
Benzene	ug/L	5.0 U	5.0 U
Bromodichloromethane	ug/L	5.0 U	5.0 U
Bromoform	ug/L	5.0 U	5.0 U
Bromomethane (Methyl Bromide)	ug/L	5.0 U	5.0 U
Carbon disulfide	ug/L	5.0 U	5.0 U
Carbon tetrachloride	ug/L	5.0 U	5.0 U
Chlorobenzene	ug/L	5.0 U	5.0 U
Chloroethane	ug/L	5.0 U	5.0 U
Chloroform (Trichloromethane)	ug/L	5.0 U	5.0 U
Chloromethane (Methyl Chloride)	ug/L	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	5.0 U	5.0 U
cis-1,3-Dichloropropene	ug/L	5.0 U	5.0 U
Cyclohexane	ug/L	5.0 U	5.0 U
Dibromochloromethane	ug/L	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	5.0 U	5.0 U
Ethylbenzene	ug/L	5.0 U	5.0 U
Isopropylbenzene	ug/L	5.0 U	5.0 U
Methyl acetate	ug/L	5.0 U	5.0 U
Methyl cyclohexane	ug/L	5.0 U	5.0 U
Methyl Tert Butyl Ether	ug/L	5.0 U	5.0 U
Methylene chloride	ug/L	5.0 U	5.0 U
Styrene	ug/L	5.0 U	5.0 U
Tetrachloroethene	ug/L	5.0 U	5.0 U
Toluene	ug/L	5.0 U	5.0 U
trans-1,2-Dichloroethene	ug/L	5.0 U	5.0 U
trans-1,3-Dichloropropene	ug/L	5.0 U	5.0 U
Trichloroethene	ug/L	0.97 J	5.0 U
Trichlorofluoromethane (CFC-11)	ug/L	5.0 U	5.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	5.0 U	5.0 U
Vinyl chloride	ug/L	5.0 U	5.0 U
Xylene (total)	ug/L	15 U	15 U

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
SUPPLEMENTAL GROUNDWATER INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
TCL VOC	1/24/2009	1,2-Dibromo-3-chloropropane	30.44	GW-37191-012009-JJW-009	50 UJ	µg/L
				TRIP BLANK	5.0 UJ	µg/L
TCL VOC	1/24/2009	2-Butanone	32.81	GW-37191-012009-JJW-009	50 UJ	µg/L
				TRIP BLANK	5.0 UJ	µg/L
TCL VOC	1/24/2009	2-Hexanone	35.88	GW-37191-012009-JJW-009	50 UJ	µg/L
				TRIP BLANK	5.0 UJ	µg/L
TCL VOC	1/24/2009	4-Methyl-2-Pentanone	28.34	GW-37191-012009-JJW-009	50 UJ	µg/L
				TRIP BLANK	5.0 UJ	µg/L
TCL VOC	1/24/2009	Bromomethane	35.11	GW-37191-012009-JJW-009	50 UJ	µg/L
				TRIP BLANK	5.0 UJ	µg/L
TCL VOC	1/24/2009	Chloroethane	36.55	GW-37191-012009-JJW-009	50 UJ	µg/L
				TRIP BLANK	5.0 UJ	µg/L
TCL VOC	1/27/2009	Bromomethane	34.76	GW-37191-011909-JJW-006	5.0 UJ	µg/L
				GW-37191-011909-JJW-007	5.0 UJ	µg/L
				GW-37191-011909-JJW-008	2000 UJ	µg/L
				GW-37191-012009-JJW-010	5.0 UJ	µg/L
				GW-37191-012009-JJW-011	25000 UJ	µg/L
				GW-37191-012009-JJW-012	10000 UJ	µg/L
TCL VOC	1/27/2009	Chloroethane	38.46	GW-37191-011909-JJW-006	5.0 UJ	µg/L
				GW-37191-011909-JJW-007	5.0 UJ	µg/L
				GW-37191-011909-JJW-008	2000 UJ	µg/L
				GW-37191-012009-JJW-010	5.0 UJ	µg/L
				GW-37191-012009-JJW-011	25000 UJ	µg/L
				GW-37191-012009-JJW-012	10000 UJ	µg/L
TCL VOC	1/27/2009	Chloroethane	47.25	TRIP BLANK (1/23/2009)	5.0 UJ	µg/L
TCL VOC	1/27/2009	1,2-Dibromo-3-chloropropane	32.0	GW-37191-011309-JJW-002	100 UJ	µg/L
				GW-37191-011309-JJW-003	25 UJ	µg/L
				GW-37191-011309-JJW-004	50 UJ	µg/L

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
SUPPLEMENTAL GROUNDWATER INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
TCL VOC	1/27/2009	2-Butanone	33.2	GW-37191-011309-JJW-005	50 UJ	µg/L
				GW-37191-011309-JJW-002	100 UJ	µg/L
				GW-37191-011309-JJW-003	25 UJ	µg/L
				GW-37191-011309-JJW-004	50 UJ	µg/L
				GW-37191-011309-JJW-005	50 UJ	µg/L
TCL VOC	1/27/2009	2-Hexanone	37.0	GW-37191-011309-JJW-002	100 UJ	µg/L
				GW-37191-011309-JJW-003	25 UJ	µg/L
				GW-37191-011309-JJW-004	50 UJ	µg/L
				GW-37191-011309-JJW-005	50 UJ	µg/L
TCL VOC	1/27/2009	4-Methyl-2-Pentanone	29.6	GW-37191-011309-JJW-002	100 UJ	µg/L
				GW-37191-011309-JJW-003	25 UJ	µg/L
				GW-37191-011309-JJW-004	50 UJ	µg/L
				GW-37191-011309-JJW-005	50 UJ	µg/L
TCL VOC	1/27/2009	Bromomethane	27.8	GW-37191-011309-JJW-002	100 UJ	µg/L
				GW-37191-011309-JJW-003	25 UJ	µg/L
				GW-37191-011309-JJW-004	50 UJ	µg/L
				GW-37191-011309-JJW-005	50 UJ	µg/L
TCL VOC	1/27/2009	Trichlorofluoromethane (CFC-11)	47.6	GW-37191-011309-JJW-002	100 UJ	µg/L
				GW-37191-011309-JJW-003	25 UJ	µg/L
				GW-37191-011309-JJW-004	50 UJ	µg/L
				GW-37191-011309-JJW-005	50 UJ	µg/L
TCL VOC	3/11/2009	1,2-Dibromo-3-chloropropane	32.9	TB-37191-030509	5.0 UJ	µg/L
				WG-37191-030509-001	5.0 UJ	µg/L
TCL VOC	3/11/2009	Acetone	33.5	TB-37191-030509	20 UJ	µg/L
				WG-37191-030509-001	20 UJ	µg/L

Notes:

UJ - Estimated Report Limit

TABLE 5

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
SUPPLEMENTAL GROUNDWATER INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK

Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*	*Units*
TCL VOC	1/28/2009	Toluene	1.1	GW-37191-012109-JJW-014	5.0 U	µg/L
				GW-37191-012309-JJW-019	5.0 U	µg/L
TCL VOC	1/28/2009	Xylenes (total)	3.4	GW-37191-012109-JJW-014	15 U	µg/L
				GW-37191-012209-JJW-015	15 U	µg/L
				GW-37191-012309-JJW-019	15 U	µg/L
TCL VOC	1/29/2009	Xylenes (total)	3.3	GW-37191-012109-JJW-013	15 U	µg/L
				GW-37191-012209-JJW-018	15 U	µg/L
TCL VOC	1/27/2009	Xylenes (total)	3.5	GW-37191-011309-JJW-004	150 U	µg/L
				GW-37191-011309-JJW-005	150 U	µg/L

Notes:

U - Qualified as Not Detected

TABLE 6

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES
SUPPLEMENTAL GROUNDWATER INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK

Parameter	*Associated Sample ID*	*Analyte*	*MS Recovery (percent)*	*MSD Recovery (percent)*	*RPD*	*Control Limits*		*Qualified Sample Result*	*Units*
						Recovery (percent)	*RPD (percent)*		
TCL VOC	GW-37191-012009-JJW-009	Trichloroethene	71	77	3.1	80-120	20	450 J	µg/L

Notes:

J - Estimated Concentration

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MEMORANDUM

TO: Chris Barton

REF. NO.: 037191

FROM: Angela Bown/bjw/3-NF AB/bjw

DATE: October 24, 2008

CC: Susan Scrocchi

E-Mail and Hard Copy if Requested

RE: **Analytical Results and QA/QC Review**
Site Investigation-Resample
Former Buffalo China Site
Buffalo, New York
September 2008

The following details a quality assessment and validation of the analytical data resulting from the September 2008 collection of two (2) groundwater samples and one trip blank from the Former Buffalo China Site in Buffalo, New York. The sample summary detailing sample identification, sample location, quality control (QC) samples and analytical parameters is presented in Table 1. Sample analysis was completed at TestAmerica Laboratories (TA), in Pittsburgh, Pennsylvania, in accordance with the methodologies presented in Table 2. A summary of the analytical results is presented in Table 3.

The QC criteria used to assess the data were established by the methods and with the following guidance documents:

i) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-99/008, October 1999; and

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Review", USEPA 540/R-94/013, February 1994.

These guidelines are collectively referred to as "Guidelines" in this memorandum.

Sample Quantitation

The laboratory reported detected concentrations of organic compounds and metals below the laboratory's practical quantitation limit (PQL)/report limit (RL) but above the laboratory's method detection limit (MDL). The laboratory flagged these sample concentrations with a "J". These concentrations should be qualified as estimated (J) values unless qualified otherwise in this memorandum.

Sample Preservation and Holding Times

Sample holding time periods and preservation requirements are summarized in the analytical methods. All sample extractions and/or analyses were performed within the specified holding times.

All samples were properly preserved and cooled to 4°C(±2°C) after collection.

Gas Chromatography/Mass Spectrometer (GC/MS) - Tuning and Mass Calibration (Instrument Performance Check) - Volatile Organic Compounds (VOCs)

To ensure adequate mass resolution, identification, and to some degree, sensitivity; the performance of each GC/MS instrument used for VOC analysis was checked at the beginning of each 12-hour period using bromofluorobenzene (BFB). The resulting spectra must meet the criteria cited in the "Guidelines" before initiating an analysis sequence.

Instrument performance check data were reviewed. These tuning compounds were analyzed at the required frequency throughout the VOC analyses. The results of all instrument performance checks were within the acceptance criteria, indicating acceptable instrument performance.

GC/MS Initial Calibration - VOCs

Initial calibration data are used to demonstrate that each instrument is capable of generating acceptable quantitative data. A five point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each over a specific concentration range.

Initial calibration criteria for organic analyses are evaluated against the following criteria:

i) must meet a minimum mean relative response factor (RRF) of 0.05; and

ii) the percent relative standard deviation (%RSD) values must not exceed 30.0 percent or a minimum coefficient of determination (R^2) of 0.99 if quadratic equation calibration curves are used.

Calibration standards were analyzed at the required frequency and the results met the above criteria for sensitivity and linearity.

GC/MS Continuing Calibration - VOCs

To ensure that each instrument was capable of producing acceptable quantitative data over the analysis period, continuing calibration standards must be analyzed every 12 hours. The following criteria are employed to evaluate the continuing calibration data:

i) must meet a minimum mean RRF of 0.05;

ii) the percent difference (%D) between the mean initial calibration RRF and the continuing calibration RRF must not exceed 25 percent; and

iii) the percent drift between the true value and the continuing calibration value must not exceed 25 percent.

Calibration standards were analyzed at the required frequency and the results met the above criteria for instrument sensitivity and linearity of response for all analytes with the exception of the sample data presented with qualifiers in Table 4.

Initial Calibration - Inorganic Analyses

Initial calibration of the instruments ensures that they are capable of producing satisfactory quantitative data at the beginning of a series of analyses. For trace inductively coupled plasma (ICP) analysis, a calibration blank and at least one standard must be analyzed at each wavelength to establish the analytical curve. The coefficient of variation for calibration curves must exceed 0.995.

Initial calibration is verified with an initial calibration verification (ICV) standard which must recover within 90 to 110 percent for metals by ICP.

A review of the laboratory data showed that all inorganic initial calibration curves and ICVs were analyzed at the appropriate frequency and were within the acceptance criteria.

Continuing Calibration - Inorganic Analyses

Continuing calibration verification (CCV) standards are analyzed at method specified frequency (one every ten (10) samples). The CCVs must meet the percent recovery control limits specified above for the ICVs.

A review of the laboratory data showed that CCVs were analyzed at the appropriate frequency and the data were within the acceptance criteria.

Method Blank/Laboratory Blank Samples

Method blank samples are prepared from a purified sample matrix and are processed concurrently with investigative samples to assess the presence and the magnitude of sample contamination introduced during sample analysis. Method blank samples are analyzed at a minimum frequency of one per analytical batch and target analytes should be non-detect.

Metals analyses include the analysis of initial calibration blanks (ICB) and continuing calibration blanks (CCB) to assess the presence and the magnitude of sample contamination introduced during sample analysis. The CCBs are analyzed at a minimum frequency of one every 10 samples and target analytes should be non-detect.

Method blanks and ICB/CCBs were analyzed at the recommended frequency and the results were non-detect for all analytes of interest.

Surrogate Compounds - Organic Analyses

Individual sample performance for organic analyses was monitored by assessing the results of surrogate compound percent recoveries. Surrogate percent recoveries are reviewed against the laboratory developed control limits provided in the analytical report.

All surrogate recoveries met the method criteria, demonstrating acceptable analytical efficiency for these analyses.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To assess the long term accuracy and precision of the analytical methods on various matrices, MS/MSD percent recoveries and relative percent differences (RPD) of the concentrations were determined. The organic MS/MSD percent recovery and RPD control limits are established by the laboratory. The inorganic control limits are defined by the methods and the "Guidelines", which require recoveries between 75 to 125 percent with RPDs less than 20 percent.

All MS/MSD recoveries and RPDs were acceptable indicating acceptable laboratory performance.

Laboratory Control Sample (LCS)

The LCS analysis serves as a monitor of the overall performance in all steps of the sample analysis and is analyzed with each sample batch. The LCS percent recoveries were evaluated against method and laboratory established control limits. Some LCS analyses were performed in duplicate to monitor laboratory precision.

The LCS percent recoveries were all within the laboratory control limits indicating acceptable analytical accuracy and precision (where applicable).

Internal Standard (IS) Summaries - Organic Analyses

To correct for variability in the GC/MS response and sensitivity, IS compounds are added to all samples. All results are calculated as a ratio of the compound and associated IS response. Overall instrument stability and performance for VOC analysis were monitored using IS peak area and Retention time (RT) data. The IS peak areas and RTs of the samples are required to meet the following criteria:

i) IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated continuing calibration standard IS area counts; and

ii) the RT of the IS must not vary by more than plus or minus 30 seconds from the associated continuing calibration standard.

A review of the VOC internal standard data showed that the IS area counts and RT data were within the acceptance criteria for all VOC samples.

ICP Interference Check Standard (ICS) Analyses - Inorganic Analyses

To verify that proper inter-element and background correction factors had been established by the laboratory for metals analyses, the ICP ICSs are analyzed. These samples contain high concentrations of aluminum, calcium, magnesium, and iron and are analyzed at the beginning and end of each sample analysis period. The ICSs are evaluated against recovery control limits of 80 to 120 percent and +/- the reporting limit (RL).

The ICS analysis results were evaluated for all samples and were within the control limits with the exception of lead which exceeded the +/- RL criteria with a high bias. No qualification of the data was necessary because all sample results for lead were non-detect.

Serial Dilution - Inorganic Analyses

The %D between a serial dilution of a sample for each matrix was monitored to determine physical or chemical interference. A minimum of one sample per 20 investigative samples is analyzed at a five-fold dilution. The serial dilution results must agree within 10 %D of the original results for samples with detected concentrations greater than 50 times the instrument detection limit.

The %D acceptance criteria were met.

Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound RT and mass spectra (if applicable) were evaluated according to identification criteria established by the methods. The organic compounds reported adhered to the specified identification criteria.

Target Compound Quantitation

The reported quantitation results and detection limits were checked to ensure results reported were accurate. No discrepancies were found between the raw data and the sample results reported by the laboratory.

Field Quality Assurance/Quality Control (QA/QC)

The field QA/QC consisted of one trip blank.

Trip Blanks
To monitor potential cross-contamination of VOC during aqueous sample transportation and storage, a trip blank was submitted to the laboratory for VOC analysis with each shipping cooler containing multiple samples.

All trip blank results were non-detect for the compounds of interest.

System Performance

System performance between various quality control checks was evaluated to monitor for changes that may have caused the degradation of data quality. No technical problems or chromatographic anomalies were observed which would require qualification of the data.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used with the qualifications noted herein.

TABLE 1
SAMPLE COLLECTION AND ANALYSIS SUMMARY
SITE INVESTIGATION-RESAMPLE
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
SEPTEMBER 2008

				Analysis/Parameters		
Sample ID	*Location ID*	*Collection Date (mm/dd/yy)*	*Collection Time (hr:min)*	*VOCs*	*Lead*	*Dissolved Lead*
WG-37191-091908-001	MW-11	09/19/08	8:30	X	X	X
WG-37191-091908-002	MW-10	09/19/08	9:45	X	X	X
TB-37191-091908	TRIP BLANK	09/19/08	-	X		

Note:
VOCs Volatile Organic Compounds.

TABLE 2

SUMMARY OF ANALYTICAL METHODS
SITE INVESTIGATION-RESAMPLE
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
SEPTEMBER 2008

Parameter	*Method* [1]
Groundwater	
TCL VOCs	SW-846 8260B
Total & Dissolved Lead	SW-846 6010

Notes:

[1] "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 (with all subsequent revisions).

TCL Target Compound List.

VOCs Volatile Organic Compounds.

TABLE 3

ANALYTICAL RESULTS SUMMARY
SITE INVESTIGATION-RESAMPLE
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
SEPTEMBER 2008

Location Name:	*MW-10*	*MW-11*	*TRIP BLANK*
Sample Name:	*WG-37191-091908-002*	*WG-37191-091908-001*	*TB-37191-091908*
Sample Date:	*9/19/2008*	*9/19/2008*	*9/19/2008*
Sample Type:	*(Orig.)*	*(Orig.)*	*(Orig.)*
Parameters	*Units*		
Metals			
Lead	µg/L	3.0 U	3.0 U	--
Lead (Dissolved)	µg/L	3.0 U	3.0 U	--
VOAs			
1,1,1-Trichloroethane	µg/L	5.0 U	250 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	250 U	5.0 U
1,1,2-Trichloroethane	µg/L	5.0 U	250 U	5.0 U
1,1-Dichloroethane	µg/L	5.0 U	250 U	5.0 U
1,1-Dichloroethene	µg/L	5.0 U	250 U	5.0 U
1,2,4-Trichlorobenzene	µg/L	5.0 U	250 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	5.0 U	250 U	5.0 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/L	5.0 UJ	250 UJ	5.0 U
1,2-Dichlorobenzene	µg/L	5.0 U	250 U	5.0 U
1,2-Dichloroethane	µg/L	5.0 U	250 U	5.0 U
1,2-Dichloropropane	µg/L	5.0 U	250 U	5.0 U
1,3-Dichlorobenzene	µg/L	5.0 U	250 U	5.0 U
1,4-Dichlorobenzene	µg/L	5.0 U	250 U	5.0 U
2-Butanone (Methyl Ethyl Ketone)	µg/L	5.0 U	250 U	5.0 U
2-Hexanone	µg/L	5.0 U	250 U	5.0 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/L	5.0 U	250 U	5.0 U
Acetone	µg/L	20 U	1000 U	20 U
Benzene	µg/L	5.0 U	250 U	5.0 U
Bromodichloromethane	µg/L	5.0 U	250 U	5.0 U
Bromoform	µg/L	5.0 U	250 U	5.0 U
Bromomethane (Methyl Bromide)	µg/L	5.0 U	250 U	5.0 U
Carbon disulfide	µg/L	5.0 U	250 U	5.0 U
Carbon tetrachloride	µg/L	5.0 U	250 U	5.0 U
Chlorobenzene	µg/L	5.0 U	250 U	5.0 U
Chloroethane	µg/L	5.0 U	250 U	5.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	250 U	5.0 U
Chloromethane (Methyl Chloride)	µg/L	5.0 U	250 U	5.0 U
cis-1,2-Dichloroethene	µg/L	5.0 U	3500	5.0 U
cis-1,3-Dichloropropene	µg/L	5.0 U	250 U	5.0 U
Cyclohexane	µg/L	3.6 J	250 U	5.0 U
Dibromochloromethane	µg/L	5.0 U	250 U	5.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	5.0 U	250 U	5.0 U
Ethylbenzene	µg/L	5.0 U	250 U	5.0 U
Isopropylbenzene	µg/L	5.0 U	250 U	5.0 U
Methyl acetate	µg/L	5.0 UJ	250 UJ	5.0 U
Methyl cyclohexane	µg/L	3.7 J	250 U	5.0 U
Methyl Tert Butyl Ether	µg/L	5.0 U	250 U	5.0 U
Methylene chloride	µg/L	5.0 U	250 U	5.0 U
Styrene	µg/L	5.0 U	250 U	5.0 U
Tetrachloroethene	µg/L	5.0 U	250 U	5.0 U
Toluene	µg/L	5.0 U	250 U	5.0 U
trans-1,2-Dichloroethene	µg/L	5.0 U	250 U	5.0 U
trans-1,3-Dichloropropene	µg/L	5.0 U	250 U	5.0 U
Trichloroethene	µg/L	5.0 U	1700	5.0 U
Trichlorofluoromethane (CFC-11)	µg/L	5.0 U	250 U	5.0 U
Trifluorotrichloroethane (Freon 113)	µg/L	5.0 U	250 U	5.0 U
Vinyl chloride	µg/L	5.0 U	250 U	5.0 U
Xylene (total)	µg/L	2.5 J	750 U	15 U

Notes:

-	Not analyzed.
J	Estimated
U	Not detected.
UJ	Not detected, estimated reporting limit.
VOAs	Volatile Organic Analytes.

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
SITE INVESTIGATION-RESAMPLE
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
SEPTEMBER 2008

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
Volatiles	09/23/08	1,2-Dibromoethane (Ethylene Dibromide)	27	WG-37191-091908-001	250 UJ	µg/L
				WG-37191-091908-002	5.0 UJ	µg/L
Volatiles	09/23/08	Methyl acetate	40	WG-37191-091908-001	250 UJ	µg/L
				WG-37191-091908-002	5.0 UJ	µg/L

Notes:
%D Percent Difference.
UJ Not detected, estimated reporting limit.

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MEMORANDUM

TO: Chris Barton

FROM: Susan Scrocchi/cs/4-NF SCS

REF. NO.: 037191

DATE: October 29, 2008

E-Mail and Hard Copy if Requested

RE: Analytical Results and QA/QC Review
Site Investigation-Soil
Former Buffalo China Site
Buffalo, New York
August 2008

The following details a quality assessment and validation of the analytical data resulting from the August 2008 collection of soil samples from the Former Buffalo China Site in Buffalo, New York. The sample summary detailing sample identification, sample location, quality control (QC) samples and analytical parameters is presented in Table 1. Sample analysis was completed at TestAmerica Laboratories (TA), in Pittsburgh, Pennsylvania, in accordance with the methodologies presented in Table 2. A summary of the analytical results is presented in Table 3.

The QC criteria used to assess the data were established by the methods and with the guidance document: "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Review", USEPA 540/R-94/013, February 1994.

These guidelines are collectively referred to as "Guidelines" in this memorandum.

Sample Quantitation

The laboratory reported detected concentrations of metals and cyanide below the laboratory's practical quantitation limit (PQL)/report limit (RL) but above the laboratory's method detection limit (MDL). The laboratory flagged these sample concentrations with a "B". These concentrations should be qualified as estimated (J) values unless qualified otherwise in this memorandum.

Sample Preservation and Holding Times

Sample holding time periods and preservation requirements are summarized in the analytical methods. All sample extractions and/or analyses were performed within the specified holding times.

All samples were properly preserved and cooled to 4°C(±2°C) after collection.

Initial Calibration - Inorganic Analyses

Initial calibration of the instruments ensures that they are capable of producing satisfactory quantitative data at the beginning of a series of analyses. For trace inductively coupled plasma (ICP) analysis, a calibration blank and at least one standard must be analyzed at each wavelength to establish the analytical curve. Mercury analysis by cold vapor atomic absorption spectroscopy (CVAA) and cyanide analysis by spectrophotometry require the analysis of a calibration blank and a minimum of five standards to establish the calibration curve. The coefficient of variation for calibration curves must exceed 0.995.

Initial calibration is verified with an initial calibration verification (ICV) standard which must recover within 90 to 110 percent for metals by ICP and 80 to 120 percent for mercury by CVAA and 85 to 115 percent for cyanide by spectrophotometry.

A review of the laboratory data showed that all inorganic initial calibration curves and ICVs were analyzed at the appropriate frequency and were within the acceptance criteria.

Continuing Calibration - Inorganic Analyses

Continuing calibration verification (CCV) standards are analyzed at method specified frequency (one every 10 samples). The CCVs must meet the percent recovery control limits specified above for the ICVs. Criteria for inorganic analyses are the same criteria as used for assessing the initial calibration data.

A review of the laboratory data showed that CCVs were analyzed at the appropriate frequency and the data were within the acceptance criteria.

Method Blank/Laboratory Blank Samples

Method blank samples are prepared from a purified sample matrix and are processed concurrently with investigative samples to assess the presence and the magnitude of sample contamination introduced during sample analysis. Method blank samples are analyzed at a minimum frequency of one per analytical batch and target analytes should be non-detect.

Metals analyses include the analysis of initial calibration blanks (ICB) and continuing calibration blanks (CCB) to assess the presence and the magnitude of sample contamination introduced during sample analysis. The CCBs are analyzed at a minimum frequency of one every 10 samples and target analytes should be non-detect.

Method blanks and ICB/CCBs were analyzed at the recommended frequency. Various metals and cyanide were observed at low concentrations. All associated sample results within five times the blank concentrations were qualified as non-detect (see Table 4).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To assess the long term accuracy and precision of the analytical methods on various matrices, MS/MSD percent recoveries and relative percent differences (RPD) of the concentrations were determined. The inorganic control limits are defined by the methods and the "Guidelines", which require recoveries between 75 to 125 percent with RPDs less than 20 percent.

All MS/MSD recoveries and RPDs were acceptable indicating acceptable laboratory performance.

Laboratory Control Sample (LCS)

The LCS analysis serves as a monitor of the overall performance in all steps of the sample analysis and is analyzed with each sample batch. The LCS percent recoveries were evaluated against method and laboratory established control limits.

The LCS percent recoveries were all within the laboratory control limits indicating acceptable analytical accuracy.

ICP Interference Check Standard (ICS) Analyses – Inorganic Analyses

To verify that proper inter-element and background correction factors had been established by the laboratory for metals analyses, the ICP ICSs are analyzed. These samples contain high concentrations of aluminum, calcium, magnesium, and iron and are analyzed at the beginning and end of each sample analysis period. The ICSs are evaluated against recovery control limits of 80 to 120 percent and +/- the reporting limit (RL).

The ICS analysis results were evaluated for all samples and were within the control limits with the exception of lead which exceeded the +/- RL criteria with a high bias. No qualification of the data was necessary because all sample results for lead were non-detect.

Serial Dilution – Inorganic Analyses

The %D between a serial dilution of a sample for each matrix was monitored to determine physical or chemical interference. A minimum of one sample per 20 investigative samples is analyzed at a five-fold dilution. The serial dilution results must agree within 10 %D of the original results for samples with detected concentrations greater than 50 times the instrument detection limit.

The %D acceptance criteria were met.

Field Quality Assurance/Quality Control (QA/QC)

The field QA/QC consisted of one field duplicate sample set.

Field Duplicates

Overall precision for the sampling event and laboratory procedures was monitored using the results of the field duplicate sample sets. The RPDs associated with these duplicate samples must be less than 100 percent for soil/sediment. If the reported concentration in either the investigative sample or its duplicate is less than five times the RL, the evaluation criteria is two times for soil/sediment.

All field duplicate results were acceptable indicating good field and analytical precision.

System Performance

System performance between various quality control checks was evaluated to monitor for changes that may have caused the degradation of data quality. No technical problems or chromatographic anomalies were observed which would require qualification of the data.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used with the qualifications noted herein.

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
SITE INVESTIGATION-SOIL
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
AUGUST 2008

						Analysis/Parameters			
Sample I.D.	*Location I.D.*	*Collection Date (mm/dd/yy)*	*Collection Time (hr:min)*	*Start Depth (ft bgs)*	*End Depth (ft bgs)*	*TAL Metals*	*Lead*	*Cyanide*	*Comments*
SS-37191-081308-CB-001	SS-17	8/13/2008	8:45	0	0.17	X		X	
SS-37191-081308-CB-002	SS-17	8/13/2008	8:50	0.17	0.33	X		X	
SS-37191-081308-CB-003	SS-18	8/13/2008	8:55	0	0.17	X		X	
SS-37191-081308-CB-004	SS-18	8/13/2008	9:00	0.17	0.33	X		X	
SS-37191-081308-CB-005	SS-19	8/13/2008	9:05	0	0.17		X		
SS-37191-081308-CB-006	SS-19	8/13/2008	9:10	0.17	0.33		X		
SS-37191-081308-CB-007	SS-20	8/13/2008	9:15	0	0.17	X		X	
SS-37191-081308-CB-008	SS-20	8/13/2008	9:20	0.17	0.33	X		X	
SS-37191-081308-CB-009	SS-21	8/13/2008	9:25	0	0.17		X		
SS-37191-081308-CB-010	SS-21	8/13/2008	9:30	0.17	0.33		X		
SS-37191-081308-CB-011	SS-22	8/13/2008	9:35	0	0.17		X		
SS-37191-081308-CB-012	SS-22	8/13/2008	9:40	0.17	0.33		X		
SS-37191-081308-CB-013	SS-23	8/13/2008	9:45	0	0.17		X		
SS-37191-081308-CB-014	SS-23	8/13/2008	9:50	0.17	0.33		X		
SS-37191-081308-CB-015	SS-24	8/13/2008	9:55	0	0.17	X		X	
SS-37191-081308-CB-016	SS-24	8/13/2008	10:00	0.17	0.33	X		X	
SS-37191-081308-CB-017	SS-25	8/13/2008	10:05	0	0.17	X		X	
SS-37191-081308-CB-018	SS-25	8/13/2008	10:10	0.17	0.33	X		X	
SS-37191-081308-CB-019	SS-25	8/13/2008	10:15	0.17	0.33	X		X	Field duplicate of SS-37191-081308-CB-018

TABLE 2

SUMMARY OF ANALYTICAL METHODS
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
AUGUST 2008

Parameter	*Method* [1]
TAL Metals	SW-846 6010/7471
Lead	SW-846 6010
Cyanide	SW-846 9012

Notes:

1 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," SW-846, 3rd Edition, September 1986 (with all subsequent revisions).

TAL Target Analyte List.

TABLE 3

ANALYTICAL RESULTS SUMMARY
SITE INVESTIGATION-SOIL
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
AUGUST 2008

Location ID:		*SS-17*	*SS-17*	*SS-18*	*SS-18*	*SS-19*	*SS-19*	*SS-20*
Sample Name:		*SS-37191-081308-CB-001*	*SS-37191-081308-CB-002*	*SS-37191-081308-CB-003*	*SS-37191-081308-CB-004*	*SS-37191-081308-CB-005*	*SS-37191-081308-CB-006*	*SS-37191-081308-CB-007*
Sample Date:		*8/13/2008*	*8/13/2008*	*8/13/2008*	*8/13/2008*	*8/13/2008*	*8/13/2008*	*8/13/2008*
Depth:		*0 - 0.17 ft*	*0.17 - 0.33 ft*	*0 - 0.17 ft*	*0.17 - 0.33 ft*	*0 - 0.17 ft*	*0.17 - 0.33 ft*	*0 - 0.17 ft*
	Units							
Metals								
Aluminum	mg/kg	10600	10200	8810	9080	--	--	6280
Antimony	mg/kg	0.68 J	1.0 J	0.63 J	0.75 J	--	--	0.81 J
Arsenic	mg/kg	11.8	11.4	11.4	11.7	--	--	11.0
Barium	mg/kg	115	112	85.0	82.8	--	--	89.3
Beryllium	mg/kg	0.67	0.63	0.65	0.66	--	--	0.54
Cadmium	mg/kg	1.1	1.1	0.84	0.85	--	--	1.3
Calcium	mg/kg	5130	4510	4930	4570	--	--	36200
Chromium Total	mg/kg	22.5	21.7	20.1	18.9	--	--	20.1
Cobalt	mg/kg	8.4	8.0	6.9	7.0	--	--	5.2 J
Copper	mg/kg	45.5	44.6	35.2	34.6	--	--	37.6
Iron	mg/kg	26700	25800	23600	23900	--	--	22800
Lead	mg/kg	251	244	122	122	356	335	163
Magnesium	mg/kg	3320	3130	3040	3030	--	--	6110
Manganese	mg/kg	433	393	394	395	--	--	385
Mercury	mg/kg	0.22	0.26	0.12	0.15	--	--	0.16
Nickel	mg/kg	24.8	23.9	21.5	21.5	--	--	18.2
Potassium	mg/kg	1420	1230	975	908	--	--	1020
Selenium	mg/kg	1.2	1.0	0.94	1.1	--	--	0.70
Silver	mg/kg	0.76 U	0.67 U	0.66 U	0.64 U	--	--	0.67 U
Sodium	mg/kg	757 U	673 U	41.9 J	203 J	--	--	668 U
Thallium	mg/kg	1.5 U	1.3 U	1.3 U	1.3 U	--	--	1.3 U
Vanadium	mg/kg	23.5	23.0	20.9	21.1	--	--	19.9
Zinc	mg/kg	313	306	222	216	--	--	277
Wet								
Cyanide (total)	mg/kg	0.76 U	0.67 U	0.66 U	0.64 U	--	--	0.67 U
Total Solids	%	66.1	74.3	75.2	77.9	63.7	66.4	74.9

TABLE 3

ANALYTICAL RESULTS SUMMARY
SITE INVESTIGATION-SOIL
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
AUGUST 2008

Location ID:		*SS-20*	*SS-21*	*SS-21*	*SS-22*	*SS-22*	*SS-23*	*SS-23*
Sample Name:		*SS-37191-081308-CB-008*	*SS-37191-081308-CB-009*	*SS-37191-081308-CB-010*	*SS-37191-081308-CB-011*	*SS-37191-081308-CB-012*	*SS-37191-081308-CB-013*	*SS-37191-081308-CB-014*
Sample Date:		*8/13/2008*	*8/13/2008*	*8/13/2008*	*8/13/2008*	*8/13/2008*	*8/13/2008*	*8/13/2008*
Depth:		*0.17 - 0.33 ft*	*0 - 0.17 ft*	*0.17 - 0.33 ft*	*0 - 0.17 ft*	*0.17 - 0.33 ft*	*0 - 0.17 ft*	*0.17 - 0.33 ft*
	Units							
Metals								
Aluminum	mg/kg	6160	--	--	--	--	--	--
Antimony	mg/kg	0.88 J	--	--	--	--	--	--
Arsenic	mg/kg	10.4	--	--	--	--	--	--
Barium	mg/kg	88.3	--	--	--	--	--	--
Beryllium	mg/kg	0.51 J	--	--	--	--	--	--
Cadmium	mg/kg	1.3	--	--	--	--	--	--
Calcium	mg/kg	51800	--	--	--	--	--	--
Chromium Total	mg/kg	19.8	--	--	--	--	--	--
Cobalt	mg/kg	5.1 J	--	--	--	--	--	--
Copper	mg/kg	35.7	--	--	--	--	--	--
Iron	mg/kg	21700	--	--	--	--	--	--
Lead	mg/kg	159	17.5	16.6	160	158	163	151
Magnesium	mg/kg	6630	--	--	--	--	--	--
Manganese	mg/kg	391	--	--	--	--	--	--
Mercury	mg/kg	0.17	--	--	--	--	--	--
Nickel	mg/kg	17.7	--	--	--	--	--	--
Potassium	mg/kg	919	--	--	--	--	--	--
Selenium	mg/kg	0.72	--	--	--	--	--	--
Silver	mg/kg	0.66 U	--	--	--	--	--	--
Sodium	mg/kg	660 U	--	--	--	--	--	--
Thallium	mg/kg	1.3 U	--	--	--	--	--	--
Vanadium	mg/kg	19.9	--	--	--	--	--	--
Zinc	mg/kg	263	--	--	--	--	--	--
Wet								
Cyanide (total)	mg/kg	0.66 U	--	--	--	--	--	--
Total Solids	%	75.8	76.5	81.7	70.3	73.6	78.1	82.9

TABLE 3

ANALYTICAL RESULTS SUMMARY
SITE INVESTIGATION-SOIL
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
AUGUST 2008

Location ID:		*SS-24*	*SS-24*	*SS-25*	*SS-25*	*SS-25*
Sample Name:		*SS-37191-081308-CB-015*	*SS-37191-081308-CB-016*	*SS-37191-081308-CB-017*	*SS-37191-081308-CB-018*	*SS-37191-081308-CB-019*
Sample Date:		*8/13/2008*	*8/13/2008*	*8/13/2008*	*8/13/2008*	*8/13/2008*
Depth:		*0 - 0.17 ft*	*0.17 - 0.33 ft*	*0 - 0.17 ft*	*0.17 - 0.33 ft*	*0.17 - 0.33 ft (Field Duplicate)*
	Units					
Metals						
Aluminum	mg/kg	6390	6240	8570	9590	7760
Antimony	mg/kg	0.75 J	0.77 J	0.88 J	1.4 J	0.58 J
Arsenic	mg/kg	7.6	7.7	10.5	12.4	9.8
Barium	mg/kg	58.6	54.5	111	124	99.5
Beryllium	mg/kg	0.45 J	0.44 J	0.58 J	0.66 J	0.52
Cadmium	mg/kg	0.70	0.81	1.1	1.2	0.95
Calcium	mg/kg	28400	43000	10600	14000	11100
Chromium Total	mg/kg	12.5	12.1	19.5	22.2	17.8
Cobalt	mg/kg	5.9 J	5.9 J	6.6 J	7.5 J	6.0
Copper	mg/kg	29.9	29.5	54.1	58.5	45.4
Iron	mg/kg	17800	17600	24600	26800	21100
Lead	mg/kg	116	123	283	309	242
Magnesium	mg/kg	10600	10800	4710	6050	4470
Manganese	mg/kg	356	348	354	473	349
Mercury	mg/kg	0.085	0.083	0.22	0.28	0.22
Nickel	mg/kg	17.0	16.8	20.1	22.2	17.8
Potassium	mg/kg	982	832	1510	1670	1210
Selenium	mg/kg	0.65 U	0.62 U	0.83	1.1	0.67
Silver	mg/kg	0.65 U	0.62 U	0.75 U	0.89 U	0.58 U
Sodium	mg/kg	646 U	37.3 J	29.2 J	40.8 J	18.1 J
Thallium	mg/kg	1.3 U	1.2 U	1.5 U	1.8 U	1.2 U
Vanadium	mg/kg	16.5	16.1	21.9	24.4	19.1
Zinc	mg/kg	222	217	276	305	224
Wet						
Cyanide (total)	mg/kg	0.65 U	0.62 U	0.75 U	0.89 U	0.58 U
Total Solids	%	77.4	81.3	66.4	56.5	86.0

Notes:

- Not analyzed.
J Estimated.
U Not detected.

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
SITE INVESTIGATION-SOIL
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
AUGUST 2008

Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*	*Units*
General Chemistry	08/21/08	Cyanide (total)	0.18	SS-37191-081308-CB-001	0.76 U	mg/kg
			0.16	SS-37191-081308-CB-002	0.67 U	mg/kg
			0.16	SS-37191-081308-CB-003	0.66 U	mg/kg
			0.15	SS-37191-081308-CB-004	0.64 U	mg/kg
			0.16	SS-37191-081308-CB-007	0.67 U	mg/kg
			0.16	SS-37191-081308-CB-008	0.66 U	mg/kg
			0.16	SS-37191-081308-CB-015	0.65 U	mg/kg
			0.15	SS-37191-081308-CB-016	0.62 U	mg/kg
			0.18	SS-37191-081308-CB-017	0.75 U	mg/kg
			0.21	SS-37191-081308-CB-018	0.89 U	mg/kg
			0.14	SS-37191-081308-CB-019	0.58 U	mg/kg
Metals	09/03/08	Thallium	0.56	SS-37191-081308-CB-001	1.5 U	mg/kg
			0.50	SS-37191-081308-CB-002	1.3 U	mg/kg
			0.49	SS-37191-081308-CB-003	1.3 U	mg/kg
			0.46	SS-37191-081308-CB-016	1.2 U	mg/kg
			0.43	SS-37191-081308-CB-019	1.2 U	mg/kg

Notes:
mg/kg Milligrams per Kilogram
U Non-detect at associated value

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MEMORANDUM

TO: Chris Barton

REF. NO.: 037191

FROM: Angela Bown/bjw/2-NF

DATE: June 23, 2008

CC: Susan Scrocchi

E-Mail and Hard Copy if Requested

RE: Analytical Results and QA/QC Review
Site Investigation
Former Buffalo China Site
Buffalo, New York
May 2008

The following details a quality assessment and validation of the analytical data resulting from the May 2008 collection of 36 soil samples including one field duplicate and 10 groundwater samples including 2 field duplicates and one trip blank from the Former Buffalo China Site in Buffalo, New York. The sample summary detailing sample identification, sample location, quality control (QC) samples and analytical parameters is presented in Table 1. Sample analysis was completed at TestAmerica Laboratories (TA), in Pittsburgh, Pennsylvania, in accordance with the methodologies presented in Table 2. A summary of the analytical results is presented in Table 3A and Table 3B.

The QC criteria used to assess the data were established by the methods and with the following guidance documents:

i) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-99/008, October 1999; and

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Review", USEPA 540/R-94/013, February 1994.

These guidelines are collectively referred to as "Guidelines" in this memorandum.

Sample Quantitation

The laboratory reported detected concentrations of organic compounds and metals below the laboratory's practical quantitation limit (PQL)/report limit (RL) but above the laboratory's method detection limit (MDL). The laboratory flagged these sample concentrations with a "J". These concentrations should be qualified as estimated (J) values unless qualified otherwise in this memorandum.

Sample Preservation and Holding Times

Sample holding time periods and preservation requirements are summarized in the analytical methods. All sample extractions and/or analyses were performed within the specified holding times.

All samples were properly preserved and cooled to 4°C(±2°C) after collection.

Gas Chromatography/Mass Spectrometer (GC/MS) – Tuning and Mass Calibration (Instrument Performance Check) – Volatile Organic Compounds (VOCs) and Semi-Volatile Organic Compounds (SVOCs)

To ensure adequate mass resolution, identification, and to some degree, sensitivity; the performance of each GC/MS instrument used for VOC and SVOC analyses was checked at the beginning of each 12-hour period using bromofluorobenzene (BFB) and decafluorotriphenylphosphine (DFTPP), respectively. The resulting spectra must meet the criteria cited in the "Guidelines" before initiating an analysis sequence.

Instrument performance check data were reviewed. These tuning compounds were analyzed at the required frequency throughout the VOC and SVOC analyses. The results of all instrument performance checks were within the acceptance criteria, indicating acceptable instrument performance.

GC/MS Initial Calibration – VOCs and SVOCs

Initial calibration data are used to demonstrate that each instrument is capable of generating acceptable quantitative data. A five point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each over a specific concentration range.

Initial calibration criteria for organic analyses are evaluated against the following criteria:

i) must meet a minimum mean relative response factor (RRF) of 0.05; and

ii) the percent relative standard deviation (%RSD) values must not exceed 30.0 percent or a minimum coefficient of determination (R^2) of 0.99 if quadratic equation calibration curves are used.

Calibration standards were analyzed at the required frequency and the results met the above criteria for sensitivity and linearity.

GC/MS Continuing Calibration – VOCs and SVOCs

To ensure that each instrument was capable of producing acceptable quantitative data over the analysis period, continuing calibration standards must be analyzed every 12 hours. The following criteria are employed to evaluate the continuing calibration data:

i) must meet a minimum mean RRF of 0.05;

ii) the percent difference (%D) between the mean initial calibration RRF and the continuing calibration RRF must not exceed 25 percent; and

iii) the percent drift between the true value and the continuing calibration value must not exceed 25 percent.

Calibration standards were analyzed at the required frequency and the results met the above criteria for instrument sensitivity and linearity of response for all analytes with the exception of the sample data presented with qualifiers in Table 4.

GC Initial Calibration – Pesticides, Herbicides, and Polychlorinated Biphenyls (PCBs)

To quantify compounds of interest, calibration of the GC over a specific concentration range must be performed. Initially, five-point calibration curves are analyzed for all the pesticides and herbicides of interest. PCB calibration curves are analyzed for Aroclors 1016 and1260 only. A single point calibration is performed for the remaining Aroclors of interest.

Linearity of the calibration curves are acceptable if percent %RSD values are less than or equal to 20 percent or if the coefficient of determination (R^2) is greater than 0.99. Retention time (RT) windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

Initial calibration standards were analyzed at the required frequencies. All RT and linearity criteria were met with the exception of certain compounds for herbicides. Table 5 presents the data that were qualified due to outlying initial calibration criteria.

GC Continuing Calibration – Pesticides, Herbicides and PCBs

To ensure that the calibration of the instrument is valid throughout the sample analysis period, continuing calibration standards are analyzed and evaluated on a regular basis. To evaluate the continued linearity of the calibration, %D values are calculated for each compound in all continuing standards and assessed against an acceptance criterion of 15 percent.

To ensure that compound RTs do not vary over the analysis period, all RTs must fall within the established RT windows.

Continuing calibration standards were analyzed at the required frequency, and all method criteria were met for analyte linearity.

Initial Calibration – Inorganic Analyses

Initial calibration of the instruments ensures that they are capable of producing satisfactory quantitative data at the beginning of a series of analyses. For trace inductively coupled plasma (ICP) analysis, a calibration blank and at least one standard must be analyzed at each wavelength to establish the analytical curve. Mercury analysis by cold vapor atomic absorption spectroscopy (CVAA) and cyanide analysis by spectrophotometry require the analysis of a calibration blank and a minimum of five standards to establish the calibration curve. The coefficient of variation for calibration curves must exceed 0.995.

Initial calibration is verified with an initial calibration verification (ICV) standard which must recover within 90 to 110 percent for metals by ICP and 80 to 120 percent for mercury by CVAA and 85 to 115 percent for cyanide by spectrophotometry.

A review of the laboratory data showed that all inorganic initial calibration curves and ICVs were analyzed at the appropriate frequency and were within the acceptance criteria.

Continuing Calibration – Inorganic Analyses

Continuing calibration verification (CCV) standards are analyzed at method specified frequency (one every 10 samples). The CCVs must meet the percent recovery control limits specified above for the ICVs. Criteria for inorganic analyses are the same criteria as used for assessing the initial calibration data.

A review of the laboratory data showed that CCVs were analyzed at the appropriate frequency and the data were within the acceptance criteria.

Method Blank/Laboratory Blank Samples

Method blank samples are prepared from a purified sample matrix and are processed concurrently with investigative samples to assess the presence and the magnitude of sample contamination introduced during sample analysis. Method blank samples are analyzed at a minimum frequency of one per analytical batch and target analytes should be non-detect.

Metals analyses include the analysis of initial calibration blanks (ICB) and continuing calibration blanks (CCB) to assess the presence and the magnitude of sample contamination introduced during sample analysis. The CCBs are analyzed at a minimum frequency of one every 10 samples and target analytes should be non-detect.

Method blanks and ICB/CCBs were analyzed at the recommended frequency and the results were non-detect for all analytes of interest with the exception of the sample data presented with qualifiers in Table 6. All associated positive sample results with similar concentrations were qualified as non-detect.

Surrogate Compounds – Organic Analyses

Individual sample performance for organic analyses was monitored by assessing the results of surrogate compound percent recoveries. Surrogate percent recoveries are reviewed against the laboratory developed control limits provided in the analytical report.

All surrogate recoveries met the method criteria, demonstrating acceptable analytical efficiency for these analyses.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To assess the long term accuracy and precision of the analytical methods on various matrices, MS/MSD percent recoveries and relative percent differences (RPD) of the concentrations were determined. The organic MS/MSD percent recovery and RPD control limits are established by the laboratory. The inorganic control limits are defined by the methods and the "Guidelines", which require recoveries between 75 to 125 percent with RPDs less than 20 percent.

All MS/MSD recoveries were acceptable with the exception of the sample data presented with qualifiers in Table 7.

Laboratory Control Sample (LCS)

The LCS analysis serves as a monitor of the overall performance in all steps of the sample analysis and is analyzed with each sample batch. The LCS percent recoveries were evaluated against method and laboratory established control limits. Some LCS analyses were performed in duplicate to monitor laboratory precision.

The LCS percent recoveries were all within the laboratory control limits indicating acceptable analytical accuracy and precision (where applicable).

Internal Standard (IS) Summaries – Organic Analyses

To correct for variability in the GC/MS response and sensitivity, IS compounds are added to all samples. All results are calculated as a ratio of the compound and associated IS response. Overall instrument stability and performance for VOC and SVOC analyses were monitored using IS peak area and RT data. The IS peak areas and RTs of the samples are required to meet the following criteria:

i) IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated continuing calibration standard IS area counts; and

ii) the RT of the IS must not vary by more than plus or minus 30 seconds from the associated continuing calibration standard.

A review of the VOC and SVOC internal standard data showed that the IS area counts and RT data were within the acceptance criteria for all VOC and SVOC samples.

ICP Interference Check Standard (ICS) Analyses – Inorganic Analyses

To verify that proper inter-element and background correction factors had been established by the laboratory for metals analyses, the ICP ICSs are analyzed. These samples contain high concentrations of aluminum, calcium, magnesium, and iron and are analyzed at the beginning and end of each sample analysis period. The ICSs are evaluated against recovery control limits of 80 to 120 percent and +/- the reporting limit (RL).

The ICS analysis results were evaluated for all samples and were within the control limits with the exception of lead and cadmium which exceeded the +/- RL criteria. Table 8 presents the data that were qualified due to outlying ICSs.

Serial Dilution – Inorganic Analyses

The %D between a serial dilution of a sample for each matrix was monitored to determine physical or chemical interference. A minimum of one sample per 20 investigative samples is analyzed at a five-fold dilution. The serial dilution results must agree within 10 %D of the original results for samples with detected concentrations greater than 50 times the instrument detection limit.

The %D acceptance criteria were met for all metals with the exception of the data presented with qualifiers in Table 9.

Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound RT and mass spectra (if applicable) were evaluated according to identification criteria established by the methods. The organic compounds reported adhered to the specified identification criteria.

Target Compound Quantitation

The reported quantitation results and detection limits were checked to ensure results reported were accurate. No discrepancies were found between the raw data and the sample results reported by the laboratory.

Field Quality Assurance/Quality Control (QA/QC)

The field QA/QC consisted of three (3) field duplicate sample sets and one trip blank.

Field Duplicates
Overall precision for the sampling event and laboratory procedures was monitored using the results of the field duplicate sample sets. The RPDs associated with these duplicate samples must be less than 50 percent for water and 100 percent for soil/sediment. If the reported concentration in either the investigative sample or its duplicate is less than five times the RL, the evaluation criteria is one times the RL value for water or two times for soil/sediment.

All field duplicate results were acceptable indicating good field and analytical precision.

Trip Blanks
To monitor potential cross-contamination of VOC during aqueous sample transportation and storage, a trip blank was submitted to the laboratory for VOC analysis with each shipping cooler containing multiple samples.

All trip blank results were non-detect for the compounds of interest.

Dual Column Analysis

Pesticide analyses were performed using dual column analyses. In general, the pesticide results showed good correlation between the two columns. Variability was observed between some of the results. The associated data were qualified as estimated to reflect the implied variability or were qualified as non-detects if the original result was less than the RL and the % difference between columns was greater than 50%. Table 10 presents the data that were qualified due to variability between columns.

System Performance

System performance between various quality control checks was evaluated to monitor for changes that may have caused the degradation of data quality. No technical problems or chromatographic anomalies were observed which would require qualification of the data.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used with the qualifications noted herein.

TABLE 1
SAMPLE COLLECTION AND ANALYSIS SUMMARY
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

						Analysis/Parameters												
Sample ID	*Location ID*	*Start Depth (ft bgs)*	*End Depth (ft bgs)*	*Collection Date (mm/dd/yy)*	*Collection Time (hr:min)*	*Total TAL Metals (less Al, Ca, Fe, Mg, K, & Na)*	*Dissolved TAL Metals (less Al, Ca, Fe, Mg, K, & Na)*	*Mercury*	*Dissolved Mercury*	*Cyanide*	*Lead*	*Dissolved Lead*	*TCL VOCs*	*TCL SVOCs*	*PCBs*	*TCL Pesticides*	*Herbicides*	*Comments*
SS-37191-050708-CMB-001	148MiltionSt	0	0.17	05/07/08	9:15						X							MS/MSD
SS-37191-050708-CMB-002	148MiltionSt	0.15	0.33	05/07/08	9:20						X							
SS-37191-050708-CMB-003	138HarrisonSt	0	0.17	05/07/08	9:45						X							
SS-37191-050708-CMB-004	138HarrisonSt	0.15	0.33	05/07/08	9:50						X							
SS-37191-050708-CMB-005	103HarrisonSt	0	0.17	05/07/08	10:05	X		X		X	X							
SS-37191-050708-CMB-006	103HarrisonSt	0.15	0.33	05/07/08	10:10	X		X		X	X							
SS-37191-050708-CMB-007	36LesterSt	0	0.17	05/07/08	10:45						X							MS/MSD
SS-37191-050708-CMB-008	36LesterSt	0	0.17	05/07/08	10:50						X							Field Duplicate of SS-37191-050708-CMB-007
SS-37191-050708-CMB-009	36LesterSt	0.15	0.33	05/07/08	10:55						X							
SS-37191-050708-CMB-010	22LesterSt	0	0.17	05/07/08	11:00						X							
SS-37191-050708-CMB-011	22LesterSt	0.15	0.33	05/07/08	11:05						X							
SS-37191-050708-CMB-012	20HayesPl	0	0.17	05/07/08	11:15						X							
SS-37191-050708-CMB-013	20HayesPl	0.15	0.33	05/07/08	11:20						X							
SS-37191-050708-CMB-014	34HayesPl-S	0	0.17	05/07/08	11:30						X							
SS-37191-050708-CMB-015	34HayesPl-S	0.15	0.33	05/07/08	11:35						X							
SS-37191-050708-CMB-016	34HayesPl-N	0	0.17	05/07/08	11:40						X							
SS-37191-050708-CMB-017	34HayesPl-N	0.15	0.33	05/07/08	11:45						X							
SS-37191-050708-CMB-018	51HayesPlSoilMound	0	0.17	05/07/08	11:55						X							
SS-37191-050708-CMB-019	51HayesPlSoilMound	0.15	0.33	05/07/08	12:00						X							
SS-37191-050708-CMB-020	NECrnrHarrsionStWare	0	0.17	05/07/08	12:05						X							
SS-37191-050708-CMB-021	NECrnrHarrsionStWare	0.15	0.33	05/07/08	12:10						X							
SS-37191-050708-CMB-022	WEndHarrisonStWare	0	0.17	05/07/08	12:15						X							
SS-37191-050708-CMB-023	WEndHarrisonStWare	0.15	0.33	05/07/08	12:20						X							
SS-37191-050808-CMB-001	55LesterSt-N	0	0.17	05/08/08	9:40						X							
SS-37191-050808-CMB-002	55LesterSt-N	0.15	0.33	05/08/08	9:45						X							
SS-37191-050808-CMB-003	55LesterSt-S	0	0.17	05/08/08	9:50						X							
SS-37191-050808-CMB-004	55LesterSt-S	0.15	0.33	05/08/08	9:55						X							
SS-37191-050808-CMB-005	58LesterSt	0	0.17	05/08/08	10:30						X							
SS-37191-050808-CMB-006	58LesterSt	0.15	0.33	05/08/08	10:35						X							
SS-37191-050808-CMB-007	127HarrisonStBack	0	0.17	05/08/08	11:30						X							
SS-37191-050808-CMB-008	127HarrisonStBack	0.15	0.33	05/08/08	11:35						X							
SS-37191-050808-CMB-009	127HarriosnStFront	0	0.17	05/08/08	11:40						X							
SS-37191-050808-CMB-010	127HarriosnStFront	0.15	0.33	05/08/08	11:45						X							
SB-37191-050808-JP-011	SB-20-08/MW-14	0	2	05/08/08	16:50	X		X		X	X		X	X	X	X	X	

TABLE 1
SAMPLE COLLECTION AND ANALYSIS SUMMARY
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

						Analysis/Parameters												
Sample ID	*Location ID*	*Start Depth (ft bgs)*	*End Depth (ft bgs)*	*Collection Date (mm/dd/yy)*	*Collection Time (hr:min)*	*Total TAL Metals (less Al, Ca, Fe, Mg, K, & Na)*	*Dissolved TAL Metals (less Al, Ca, Fe, Mg, K, & Na)*	*Mercury*	*Dissolved Mercury*	*Cyanide*	*Lead*	*Dissolved Lead*	*TCL VOCs*	*TCL SVOCs*	*PCBs*	*TCL Pesticides*	*Herbicides*	*Comments*
SB-37191-050908-JP-001	SB-18-08	0	2	05/09/08	9:45	X		X		X	X		X	X	X	X	X	
SB-37191-050908-JP-002	SB-19-08/MW-17	0	2	05/09/08	10:30	X		X		X	X		X	X	X	X	X	
WG-37191-052808-001	MW-9/BH-1	-	-	05/28/08	10:15	X	X	X	X	X			X	X	X	X	X	MS/MSD
WG-37191-052808-002	MW-6/BH-3	-	-	05/28/08	9:40						X	X	X					
WG-37191-052808-003	MW-4/BH-2	-	-	05/28/08	12:00	X	X	X	X	X			X	X	X	X	X	
WG-37191-052808-004	MW-4/BH-2	-	-	05/28/08	13:05	X	X	X	X	X			X	X	X	X	X	Field Duplicate of WG-37191-052808-003
WG-37191-052808-005	MW-8/BH-15	-	-	05/28/08	12:45						X	X	X					
WG-37191-052808-006	MW-12	-	-	05/28/08	14:45						X	X	X					
WG-37191-052808-007	MW-12	-	-	05/28/08	16:00						X	X	X					Field Duplicate of WG-37191-052808-006
WG-37191-052808-008	MW-5/BH-5	-	-	05/28/08	14:20						X	X	X					
WG-37191-052808-009	MW-17	-	-	05/28/08	15:45						X	X	X					
TB-37191-052808	Trip Blank	-	-	-	-								X					

Notes:

Al	Aluminum.
Ca	Calcium.
Fe	Iron.
ft bgs	Feet Below Ground Surface.
K	Potassium.
Mg	Magnesium.
MS	Matrix Spike.
MSD	Matrix Spike Duplicate.
Na	Sodium.
PCBs	Polychlorinated Biphenyls.
SVOCs	Semi-volatile Organic Compounds.
TAL	Target Analyte List.
TCL	Target Compound List.
VOCs	Volatile Organic Compounds.

TABLE 2

SUMMARY OF ANALYTICAL METHODS
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

Parameter	*Method* [1]
Soil	
TCL VOCs	SW-846 8260B
TCL SVOCs	SW-846 8270C
TCL Pesticides	SW-846 8081
Herbicides	SW-846 8151
Polychlorinated Biphenyls	SW-846 8082
TAL Metals	SW-846 6010/7000 Series
Cyanide	SW-846 9012
Groundwater	
TCL VOCs	SW-846 8260B
TCL SVOCs	SW-846 8270C
TCL Pesticides	SW-846 8081
Herbicides	SW-846 8151
Polychlorinated Biphenyls	SW-846 8082
TAL Metals (total and dissolved)	SW-846 6010/7000 Series
Cyanide	SW-846 9012

Notes:
1

SVOCs
TAL
TCL
VOCs

TABLE 3A
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	*103 Harrison*	*103 Harrison*	*127 Harrison Back*	*127 Harrison Back*	*127 Harrison Front*	*127 Harrison Front*
	Sample Name:	*SS-37191-050708-CMB-005*	*SS-37191-050708-CMB-006*	*SS-37191-050808-CMB-007*	*SS-37191-050808-CMB-008*	*SS-37191-050808-CMB-009*	*SS-37191-050808-CMB-010*
	Sample Date:	*5/7/2008*	*5/7/2008*	*5/8/2008*	*5/8/2008*	*5/8/2008*	*5/8/2008*
	Depth:	*0 - 0.17 ft*	*0.15 - 0.33 ft*	*0 - 0.17 ft*	*0.15 - 0.33 ft*	*0 - 0.17 ft*	*0.15 - 0.33 ft*
	Sample Type:	*(Orig.)*	*(Orig.)*	*(Orig.)*	*(Orig.)*	*(Orig.)*	*(Orig.)*
	Units						
Herbicides							
2,4,5-T	ug/kg	--	--	--	--	--	--
2,4,5-TP (Silvex)	ug/kg	--	--	--	--	--	--
2,4-DB	ug/kg	--	--	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	--	--	--	--	--	--
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	ug/kg	--	--	--	--	--	--
Dalapon	ug/kg	--	--	--	--	--	--
Dicamba	ug/kg	--	--	--	--	--	--
Dichlorprop	ug/kg	--	--	--	--	--	--
Dinoseb	ug/kg	--	--	--	--	--	--
Mecoprop (MCPP)	ug/kg	--	--	--	--	--	--
Metals							
Aluminum	mg/kg	10600	10200	--	--	--	--
Antimony	mg/kg	1.4 U	1.4 U	--	--	--	--
Arsenic	mg/kg	14.2	13.6	--	--	--	--
Barium	mg/kg	81.4	75.5	--	--	--	--
Beryllium	mg/kg	0.63	0.62	--	--	--	--
Cadmium	mg/kg	1.2 J	1.1 J	--	--	--	--
Calcium	mg/kg	3550	3590	--	--	--	--
Chromium Total	mg/kg	16.9 J	16.4 J	--	--	--	--
Cobalt	mg/kg	4.1 J	4.0 J	--	--	--	--
Copper	mg/kg	28.8 J	27.7 J	--	--	--	--
Iron	mg/kg	20800	19600	--	--	--	--
Lead	mg/kg	128	125	211 J	148 J	364 J	632 J
Magnesium	mg/kg	1940	1890	--	--	--	--
Manganese	mg/kg	219	211	--	--	--	--
Mercury	mg/kg	0.21	0.20	--	--	--	--
Nickel	mg/kg	13.5 J	12.8 J	--	--	--	--
Potassium	mg/kg	946	933	--	--	--	--
Selenium	mg/kg	1.2	1.5	--	--	--	--
Silver	mg/kg	0.29 J	0.34 J	--	--	--	--
Sodium	mg/kg	74.9 J	61.5 J	--	--	--	--
Thallium	mg/kg	1.4 U	1.4 U	--	--	--	--
Vanadium	mg/kg	26.0	25.1	--	--	--	--
Zinc	mg/kg	152 J	146 J	--	--	--	--
PCBs							
Aroclor-1016 (PCB-1016)	ug/kg	--	--	--	--	--	--
Aroclor-1221 (PCB-1221)	ug/kg	--	--	--	--	--	--
Aroclor-1232 (PCB-1232)	ug/kg	--	--	--	--	--	--
Aroclor-1242 (PCB-1242)	ug/kg	--	--	--	--	--	--
Aroclor-1248 (PCB-1248)	ug/kg	--	--	--	--	--	--
Aroclor-1254 (PCB-1254)	ug/kg	--	--	--	--	--	--
Aroclor-1260 (PCB-1260)	ug/kg	--	--	--	--	--	--

TABLE 3A
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	103 Harrison	103 Harrison	127 Harrison Back	127 Harrison Back	127 Harrison Front	127 Harrison Front
	Sample Name:	SS-37191-050708-CMB-005	SS-37191-050708-CMB-006	SS-37191-050808-CMB-007	SS-37191-050808-CMB-008	SS-37191-050808-CMB-009	SS-37191-050808-CMB-010
	Sample Date:	5/7/2008	5/7/2008	5/8/2008	5/8/2008	5/8/2008	5/8/2008
	Depth:	0 - 0.17 ft	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft
	Sample Type:	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)
	Units						
Pesticides							
4,4'-DDD	ug/kg	--	--	--	--	--	--
4,4'-DDE	ug/kg	--	--	--	--	--	--
4,4'-DDT	ug/kg	--	--	--	--	--	--
Aldrin	ug/kg	--	--	--	--	--	--
alpha-BHC	ug/kg	--	--	--	--	--	--
alpha-Chlordane	ug/kg	--	--	--	--	--	--
beta-BHC	ug/kg	--	--	--	--	--	--
delta-BHC	ug/kg	--	--	--	--	--	--
Dieldrin	ug/kg	--	--	--	--	--	--
Endosulfan I	ug/kg	--	--	--	--	--	--
Endosulfan II	ug/kg	--	--	--	--	--	--
Endosulfan sulfate	ug/kg	--	--	--	--	--	--
Endrin	ug/kg	--	--	--	--	--	--
Endrin aldehyde	ug/kg	--	--	--	--	--	--
Endrin ketone	ug/kg	--	--	--	--	--	--
gamma-BHC (Lindane)	ug/kg	--	--	--	--	--	--
gamma-Chlordane	ug/kg	--	--	--	--	--	--
Heptachlor	ug/kg	--	--	--	--	--	--
Heptachlor epoxide	ug/kg	--	--	--	--	--	--
Methoxychlor	ug/kg	--	--	--	--	--	--
Toxaphene	ug/kg	--	--	--	--	--	--
SVOAs							
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/kg	--	--	--	--	--	--
2,4,5-Trichlorophenol	ug/kg	--	--	--	--	--	--
2,4,6-Trichlorophenol	ug/kg	--	--	--	--	--	--
2,4-Dichlorophenol	ug/kg	--	--	--	--	--	--
2,4-Dimethylphenol	ug/kg	--	--	--	--	--	--
2,4-Dinitrophenol	ug/kg		--	--	--	--	--
2,4-Dinitrotoluene	ug/kg		--	--	--	--	--
2,6-Dinitrotoluene	ug/kg		--	--	--	--	--
2-Chloronaphthalene	ug/kg		--	--	--	--	--
2-Chlorophenol	ug/kg	--	--	--	--	--	--
2-Methylnaphthalene	ug/kg	--	--	--	--	--	--
2-Methylphenol	ug/kg	--	--	--	--	--	--
2-Nitroaniline	ug/kg	--	--	--	--	--	--
2-Nitrophenol	ug/kg	--	--	--	--	--	--
3,3'-Dichlorobenzidine	ug/kg	--	--	--	--	--	--
3-Nitroaniline	ug/kg	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	ug/kg	--	--	--	--	--	--
4-Bromophenyl phenyl ether	ug/kg	--	--	--	--	--	--
4-Chloro-3-methylphenol	ug/kg	--	--	--	--	--	--
4-Chloroaniline	ug/kg	--	--	--	--	--	--

TABLE 3A
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	103 Harrison	103 Harrison	127 Harrison Back	127 Harrison Back	127 Harrison Front	127 Harrison Front
	Sample Name:	SS-37191-050708-CMB-005	SS-37191-050708-CMB-006	SS-37191-050808-CMB-007	SS-37191-050808-CMB-008	SS-37191-050808-CMB-009	SS-37191-050808-CMB-010
	Sample Date:	5/7/2008	5/7/2008	5/8/2008	5/8/2008	5/8/2008	5/8/2008
	Depth:	0 - 0.17 ft	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft
	Sample Type:	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)
	Units						
4-Chlorophenyl phenyl ether	ug/kg	--	--	--	--	--	--
4-Methylphenol	ug/kg	--	--	--	--	--	--
SVOAs							
4-Nitroaniline	ug/kg	--	--	--	--	--	--
4-Nitrophenol	ug/kg	--	--	--	--	--	--
Acenaphthene	ug/kg	--	--	--	--	--	--
Acenaphthylene	ug/kg	--	--	--	--	--	--
Acetophenone	ug/kg	--	--	--	--	--	--
Anthracene	ug/kg	--	--	--	--	--	--
Atrazine	ug/kg	--	--	--	--	--	--
Benzaldehyde	ug/kg	--	--	--	--	--	--
Benzo(a)anthracene	ug/kg	--	--	--	--	--	--
Benzo(a)pyrene	ug/kg	--	--	--	--	--	--
Benzo(b)fluoranthene	ug/kg	--	--	--	--	--	--
Benzo(g,h,i)perylene	ug/kg	--	--	--	--	--	--
Benzo(k)fluoranthene	ug/kg	--	--	--	--	--	--
Biphenyl	ug/kg	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	ug/kg	--	--	--	--	--	--
bis(2-Chloroethyl)ether	ug/kg	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	ug/kg	--	--	--	--	--	--
Butyl benzylphthalate	ug/kg	--	--	--	--	--	--
Caprolactam	ug/kg	--	--	--	--	--	--
Carbazole	ug/kg	--	--	--	--	--	--
Chrysene	ug/kg	--	--	--	--	--	--
Dibenz(a,h)anthracene	ug/kg	--	--	--	--	--	--
Dibenzofuran	ug/kg	--	--	--	--	--	--
Diethyl phthalate	ug/kg	--	--	--	--	--	--
Dimethyl phthalate	ug/kg	--	--	--	--	--	--
Di-n-butylphthalate	ug/kg	--	--	--	--	--	--
Di-n-octyl phthalate	ug/kg	--	--	--	--	--	--
Fluoranthene	ug/kg	--	--	--	--	--	--
Fluorene	ug/kg	--	--	--	--	--	--
Hexachlorobenzene	ug/kg	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	--
Hexachlorocyclopentadiene	ug/kg	--	--	--	--	--	--
Hexachloroethane	ug/kg	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	ug/kg	--	--	--	--	--	--
Isophorone	ug/kg	--	--	--	--	--	--
Naphthalene	ug/kg	--	--	--	--	--	--
Nitrobenzene	ug/kg	--	--	--	--	--	--
N-Nitrosodi-n-propylamine	ug/kg	--	--	--	--	--	--
N-Nitrosodiphenylamine	ug/kg	--	--	--	--	--	--
Pentachlorophenol	ug/kg	--	--	--	--	--	--
Phenanthrene	ug/kg	--	--	--	--	--	--
Phenol	ug/kg	--	--	--	--	--	--

TABLE 3A
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	103 Harrison	103 Harrison	127 Harrison Back	127 Harrison Back	127 Harrison Front	127 Harrison Front
	Sample Name:	SS-37191-050708-CMB-005	SS-37191-050708-CMB-006	SS-37191-050808-CMB-007	SS-37191-050808-CMB-008	SS-37191-050808-CMB-009	SS-37191-050808-CMB-010
	Sample Date:	5/7/2008	5/7/2008	5/8/2008	5/8/2008	5/8/2008	5/8/2008
	Depth:	0 - 0.17 ft	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft
	Sample Type:	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)
	Units						
Pyrene	ug/kg	--	--	--	--	--	--
VOAs							
1,1,1-Trichloroethane	ug/kg	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	--	--	--	--	--	--
1,2-Dibromoethane (Ethylene Dibromide)	ug/kg	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--
2-Butanone (Methyl Ethyl Ketone)	ug/kg	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/kg	--	--	--	--	--	--
Acetone	ug/kg	--	--	--	--	--	--
Benzene	ug/kg	--	--	--	--	--	--
Bromodichloromethane	ug/kg	--	--	--	--	--	--
Bromoform	ug/kg	--	--	--	--	--	--
Bromomethane (Methyl Bromide)	ug/kg	--	--	--	--	--	--
Carbon disulfide	ug/kg	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	--
Chlorobenzene	ug/kg	--	--	--	--	--	--
Chloroethane	ug/kg	--	--	--	--	--	--
Chloroform (Trichloromethane)	ug/kg	--	--	--	--	--	--
Chloromethane (Methyl Chloride)	ug/kg	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--
Cyclohexane	ug/kg	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	--	--
Dichlorodifluoromethane (CFC-12)	ug/kg	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--
Isopropylbenzene	ug/kg	--	--	--	--	--	--
Methyl acetate	ug/kg	--	--	--	--	--	--
Methyl cyclohexane	ug/kg	--	--	--	--	--	--
Methyl Tert Butyl Ether	ug/kg	--	--	--	--	--	--
Methylene chloride	ug/kg	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--

TABLE 3A
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	*103 Harrison*	*103 Harrison*	*127 Harrison Back*	*127 Harrison Back*	*127 Harrison Front*	*127 Harrison Front*
	Sample Name:	*SS-37191-050708-CMB-005*	*SS-37191-050708-CMB-006*	*SS-37191-050808-CMB-007*	*SS-37191-050808-CMB-008*	*SS-37191-050808-CMB-009*	*SS-37191-050808-CMB-010*
	Sample Date:	*5/7/2008*	*5/7/2008*	*5/8/2008*	*5/8/2008*	*5/8/2008*	*5/8/2008*
	Depth:	*0 - 0.17 ft*	*0.15 - 0.33 ft*	*0 - 0.17 ft*	*0.15 - 0.33 ft*	*0 - 0.17 ft*	*0.15 - 0.33 ft*
	Sample Type:	*(Orig.)*	*(Orig.)*	*(Orig.)*	*(Orig.)*	*(Orig.)*	*(Orig.)*
	Units						
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/kg	--	--	--	--	--	--
VOAs							
Trifluorotrichloroethane (Freon 113)	ug/kg	--	--	--	--	--	--
Vinyl chloride	ug/kg	--	--	--	--	--	--
Xylene (total)	ug/kg	--	--	--	--	--	--
Wet							
Cyanide (total)	mg/kg	0.70 U	0.70 U	--	--	--	--
Total Solids	%	71.0	71.0	76.5	81.0	67.7	77.8

Notes:

J	Estimated.
PCBs	Polychlorinated Biphenyls.
SVOAs	Semi-Volatile Organic Analytes
U	Not detected.
VOAs	Volatile Organic Analytes

TABLE 3A
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	*138 Harrison*	*138 Harrison*	*148 Milton*	*148 Milton*	*20 Hayes*	*20 Hayes*
	Sample Name:	*SS-37191-050708-CMB-003*	*SS-37191-050708-CMB-004*	*SS-37191-050708-CMB-001*	*SS-37191-050708-CMB-002*	*SS-37191-050708-CMB-012*	*SS-37191-050708-CMB-013*
	Sample Date:	*5/7/2008*	*5/7/2008*	*5/7/2008*	*5/7/2008*	*5/7/2008*	*5/7/2008*
	Depth:	*0 - 0.17 ft*	*0.15 - 0.33 ft*	*0 - 0.17 ft*	*0.15 - 0.33 ft*	*0 - 0.17 ft*	*0.15 - 0.33 ft*
	Sample Type:	*(Orig.)*	*(Orig.)*	*(Orig.)*	*(Orig.)*	*(Orig.)*	*(Orig.)*
	Units						
Herbicides							
2,4,5-T	ug/kg	--	--	--	--	--	--
2,4,5-TP (Silvex)	ug/kg	--	--	--	--	--	--
2,4-DB	ug/kg	--	--	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	--	--	--	--	--	--
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	ug/kg	--	--	--	--	--	--
Dalapon	ug/kg	--	--	--	--	--	--
Dicamba	ug/kg	--	--	--	--	--	--
Dichlorprop	ug/kg	--	--	--	--	--	--
Dinoseb	ug/kg	--	--	--	--	--	--
Mecoprop (MCPP)	ug/kg	--	--	--	--	--	--
Metals							
Aluminum	mg/kg	--	--	--	--	--	--
Antimony	mg/kg	--	--	--	--	--	--
Arsenic	mg/kg	--	--	--	--	--	--
Barium	mg/kg	--	--	--	--	--	--
Beryllium	mg/kg	--	--	--	--	--	--
Cadmium	mg/kg	--	--	--	--	--	--
Calcium	mg/kg	--	--	--	--	--	--
Chromium Total	mg/kg	--	--	--	--	--	--
Cobalt	mg/kg	--	--	--	--	--	--
Copper	mg/kg	--	--	--	--	--	--
Iron	mg/kg	--	--	--	--	--	--
Lead	mg/kg	295	320	66.7 J	182	44.0	82.9 J
Magnesium	mg/kg	--	--	--	--	--	--
Manganese	mg/kg	--	--	--	--	--	--
Mercury	mg/kg	--	--	--	--	--	--
Nickel	mg/kg	--	--	--	--	--	--
Potassium	mg/kg	--	--	--	--	--	--
Selenium	mg/kg	--	--	--	--	--	--
Silver	mg/kg	--	--	--	--	--	--
Sodium	mg/kg	--	--	--	--	--	--
Thallium	mg/kg	--	--	--	--	--	--
Vanadium	mg/kg	--	--	--	--	--	--
Zinc	mg/kg	--	--	--	--	--	--
PCBs							
Aroclor-1016 (PCB-1016)	ug/kg	--	--	--	--	--	--
Aroclor-1221 (PCB-1221)	ug/kg	--	--	--	--	--	--
Aroclor-1232 (PCB-1232)	ug/kg	--	--	--	--	--	--
Aroclor-1242 (PCB-1242)	ug/kg	--	--	--	--	--	--
Aroclor-1248 (PCB-1248)	ug/kg	--	--	--	--	--	--
Aroclor-1254 (PCB-1254)	ug/kg	--	--	--	--	--	--
Aroclor-1260 (PCB-1260)	ug/kg	--	--	--	--	--	--

TABLE 3A
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	*138 Harrison*	*138 Harrison*	*148 Milton*	*148 Milton*	*20 Hayes*	*20 Hayes*
	Sample Name:	*SS-37191-050708-CMB-003*	*SS-37191-050708-CMB-004*	*SS-37191-050708-CMB-001*	*SS-37191-050708-CMB-002*	*SS-37191-050708-CMB-012*	*SS-37191-050708-CMB-013*
	Sample Date:	*5/7/2008*	*5/7/2008*	*5/7/2008*	*5/7/2008*	*5/7/2008*	*5/7/2008*
	Depth:	*0 - 0.17 ft*	*0.15 - 0.33 ft*	*0 - 0.17 ft*	*0.15 - 0.33 ft*	*0 - 0.17 ft*	*0.15 - 0.33 ft*
	Sample Type:	*(Orig.)*	*(Orig.)*	*(Orig.)*	*(Orig.)*	*(Orig.)*	*(Orig.)*
	Units						
Pesticides							
4,4'-DDD	ug/kg	--	--	--	--	--	--
4,4'-DDE	ug/kg	--	--	--	--	--	--
4,4'-DDT	ug/kg	--	--	--	--	--	--
Aldrin	ug/kg	--	--	--	--	--	--
alpha-BHC	ug/kg	--	--	--	--	--	--
alpha-Chlordane	ug/kg	--	--	--	--	--	--
beta-BHC	ug/kg	--	--	--	--	--	--
delta-BHC	ug/kg	--	--	--	--	--	--
Dieldrin	ug/kg	--	--	--	--	--	--
Endosulfan I	ug/kg	--	--	--	--	--	--
Endosulfan II	ug/kg	--	--	--	--	--	--
Endosulfan sulfate	ug/kg	--	--	--	--	--	--
Endrin	ug/kg	--	--	--	--	--	--
Endrin aldehyde	ug/kg	--	--	--	--	--	--
Endrin ketone	ug/kg	--	--	--	--	--	--
gamma-BHC (Lindane)	ug/kg	--	--	--	--	--	--
gamma-Chlordane	ug/kg	--	--	--	--	--	--
Heptachlor	ug/kg	--	--	--	--	--	--
Heptachlor epoxide	ug/kg	--	--	--	--	--	--
Methoxychlor	ug/kg	--	--	--	--	--	--
Toxaphene	ug/kg	--	--	--	--	--	--
SVOAs							
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/kg	--	--	--	--	--	--
2,4,5-Trichlorophenol	ug/kg	--	--	--	--	--	--
2,4,6-Trichlorophenol	ug/kg	--	--	--	--	--	--
2,4-Dichlorophenol	ug/kg	--	--	--	--	--	--
2,4-Dimethylphenol	ug/kg	--	--	--	--	--	--
2,4-Dinitrophenol	ug/kg	--	--	--	--	--	--
2,4-Dinitrotoluene	ug/kg	--	--	--	--	--	--
2,6-Dinitrotoluene	ug/kg	--	--	--	--	--	--
2-Chloronaphthalene	ug/kg	--	--	--	--	--	--
2-Chlorophenol	ug/kg	--	--	--	--	--	--
2-Methylnaphthalene	ug/kg	--	--	--	--	--	--
2-Methylphenol	ug/kg	--	--	--	--	--	--
2-Nitroaniline	ug/kg	--	--	--	--	--	--
2-Nitrophenol	ug/kg	--	--	--	--	--	--
3,3'-Dichlorobenzidine	ug/kg	--	--	--	--	--	--
3-Nitroaniline	ug/kg	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	ug/kg	--	--	--	--	--	--
4-Bromophenyl phenyl ether	ug/kg	--	--	--	--	--	--
4-Chloro-3-methylphenol	ug/kg	--	--	--	--	--	--
4-Chloroaniline	ug/kg	--	--	--	--	--	--

TABLE 3A
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	138 Harrison	138 Harrison	148 Milton	148 Milton	20 Hayes	20 Hayes
	Sample Name:	SS-37191-050708-CMB-003	SS-37191-050708-CMB-004	SS-37191-050708-CMB-001	SS-37191-050708-CMB-002	SS-37191-050708-CMB-012	SS-37191-050708-CMB-013
	Sample Date:	5/7/2008	5/7/2008	5/7/2008	5/7/2008	5/7/2008	5/7/2008
	Depth:	0 - 0.17 ft	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft
	Sample Type:	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)
	Units						
4-Chlorophenyl phenyl ether	ug/kg	--	--	--	--	--	--
4-Methylphenol	ug/kg	--	--	--	--	--	--
SVOAs							
4-Nitroaniline	ug/kg	--	--	--	--	--	--
4-Nitrophenol	ug/kg	--	--	--	--	--	--
Acenaphthene	ug/kg	--	--	--	--	--	--
Acenaphthylene	ug/kg	--	--	--	--	--	--
Acetophenone	ug/kg	--	--	--	--	--	--
Anthracene	ug/kg	--	--	--	--	--	--
Atrazine	ug/kg	--	--	--	--	--	--
Benzaldehyde	ug/kg	--	--	--	--	--	--
Benzo(a)anthracene	ug/kg	--	--	--	--	--	--
Benzo(a)pyrene	ug/kg	--	--	--	--	--	--
Benzo(b)fluoranthene	ug/kg	--	--	--	--	--	--
Benzo(g,h,i)perylene	ug/kg	--	--	--	--	--	--
Benzo(k)fluoranthene	ug/kg	--	--	--	--	--	--
Biphenyl	ug/kg	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	ug/kg	--	--	--	--	--	--
bis(2-Chloroethyl)ether	ug/kg	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	ug/kg	--	--	--	--	--	--
Butyl benzylphthalate	ug/kg	--	--	--	--	--	--
Caprolactam	ug/kg	--	--	--	--	--	--
Carbazole	ug/kg	--	--	--	--	--	--
Chrysene	ug/kg	--	--	--	--	--	--
Dibenz(a,h)anthracene	ug/kg	--	--	--	--	--	--
Dibenzofuran	ug/kg		--	--	--	--	--
Diethyl phthalate	ug/kg		--	--	--	--	--
Dimethyl phthalate	ug/kg		--	--	--	--	--
Di-n-butylphthalate	ug/kg		--	--	--	--	--
Di-n-octyl phthalate	ug/kg	--	--	--	--	--	--
Fluoranthene	ug/kg	--	--	--	--	--	--
Fluorene	ug/kg		--	--	--	--	--
Hexachlorobenzene	ug/kg		--	--	--	--	--
Hexachlorobutadiene	ug/kg		--	--	--	--	--
Hexachlorocyclopentadiene	ug/kg	--	--	--	--	--	--
Hexachloroethane	ug/kg	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	ug/kg	--	--	--	--	--	--
Isophorone	ug/kg	--	--	--	--	--	--
Naphthalene	ug/kg	--	--	--	--	--	--
Nitrobenzene	ug/kg	--	--	--	--	--	--
N-Nitrosodi-n-propylamine	ug/kg	--	--	--	--	--	--
N-Nitrosodiphenylamine	ug/kg	--	--	--	--	--	--
Pentachlorophenol	ug/kg	--	--	--	--	--	--
Phenanthrene	ug/kg	--	--	--	--	--	--
Phenol	ug/kg	--	--	--	--	--	--

TABLE 3A
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	138 Harrison	138 Harrison	148 Milton	148 Milton	20 Hayes	20 Hayes
	Sample Name:	SS-37191-050708-CMB-003	SS-37191-050708-CMB-004	SS-37191-050708-CMB-001	SS-37191-050708-CMB-002	SS-37191-050708-CMB-012	SS-37191-050708-CMB-013
	Sample Date:	5/7/2008	5/7/2008	5/7/2008	5/7/2008	5/7/2008	5/7/2008
	Depth:	0 - 0.17 ft	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft
	Sample Type:	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)
	Units						
Pyrene	ug/kg	--	--	--	--	--	--
VOAs							
1,1,1-Trichloroethane	ug/kg	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	--	--	--	--	--	--
1,2-Dibromoethane (Ethylene Dibromide)	ug/kg	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--
2-Butanone (Methyl Ethyl Ketone)	ug/kg	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/kg	--	--	--	--	--	--
Acetone	ug/kg	--	--	--	--	--	--
Benzene	ug/kg	--	--	--	--	--	--
Bromodichloromethane	ug/kg	--	--	--	--	--	--
Bromoform	ug/kg	--	--	--	--	--	--
Bromomethane (Methyl Bromide)	ug/kg	--	--	--	--	--	--
Carbon disulfide	ug/kg	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	--
Chlorobenzene	ug/kg	--	--	--	--	--	--
Chloroethane	ug/kg	--	--	--	--	--	--
Chloroform (Trichloromethane)	ug/kg	--	--	--	--	--	--
Chloromethane (Methyl Chloride)	ug/kg	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--
Cyclohexane	ug/kg	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	--	--
Dichlorodifluoromethane (CFC-12)	ug/kg	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--
Isopropylbenzene	ug/kg	--	--	--	--	--	--
Methyl acetate	ug/kg	--	--	--	--	--	--
Methyl cyclohexane	ug/kg	--	--	--	--	--	--
Methyl Tert Butyl Ether	ug/kg	--	--	--	--	--	--
Methylene chloride	ug/kg	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--

TABLE 3A
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	*138 Harrison*	*138 Harrison*	*148 Milton*	*148 Milton*	*20 Hayes*	*20 Hayes*
	Sample Name:	*SS-37191-050708-CMB-003*	*SS-37191-050708-CMB-004*	*SS-37191-050708-CMB-001*	*SS-37191-050708-CMB-002*	*SS-37191-050708-CMB-012*	*SS-37191-050708-CMB-013*
	Sample Date:	*5/7/2008*	*5/7/2008*	*5/7/2008*	*5/7/2008*	*5/7/2008*	*5/7/2008*
	Depth:	*0 - 0.17 ft*	*0.15 - 0.33 ft*	*0 - 0.17 ft*	*0.15 - 0.33 ft*	*0 - 0.17 ft*	*0.15 - 0.33 ft*
	Sample Type:	*(Orig.)*	*(Orig.)*	*(Orig.)*	*(Orig.)*	*(Orig.)*	*(Orig.)*
	Units						
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/kg	--	--	--	--	--	--
VOAs							
Trifluorotrichloroethane (Freon 113)	ug/kg	--	--	--	--	--	--
Vinyl chloride	ug/kg	--	--	--	--	--	--
Xylene (total)	ug/kg	--	--	--	--	--	--
Wet							
Cyanide (total)	mg/kg	--	--	--	--	--	--
Total Solids	%	80.5	80.0	92.2	86.7	90.0	90.6

Notes:

J	Estimated.
PCBs	Polychlorinated Biphenyls.
SVOAs	Semi-Volatile Organic Analytes
U	Not detected.
VOAs	Volatile Organic Analytes

TABLE 3A
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	22 Lester	22 Lester	34 Hayes North	34 Hayes North	34 Hayes South	34 Hayes South
	Sample Name:	SS-37191-050708-CMB-010	SS-37191-050708-CMB-011	SS-37191-050708-CMB-016	SS-37191-050708-CMB-017	SS-37191-050708-CMB-014	SS-37191-050708-CMB-015
	Sample Date:	5/7/2008	5/7/2008	5/7/2008	5/7/2008	5/7/2008	5/7/2008
	Depth:	0 - 0.17 ft	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft
	Sample Type:	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)
	Units						
Herbicides							
2,4,5-T	ug/kg	--	--	--	--	--	--
2,4,5-TP (Silvex)	ug/kg	--	--	--	--	--	--
2,4-DB	ug/kg	--	--	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	--	--	--	--	--	--
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	ug/kg	--	--	--	--	--	--
Dalapon	ug/kg	--	--	--	--	--	--
Dicamba	ug/kg	--	--	--	--	--	--
Dichlorprop	ug/kg	--	--	--	--	--	--
Dinoseb	ug/kg	--	--	--	--	--	--
Mecoprop (MCPP)	ug/kg	--	--	--	--	--	--
Metals							
Aluminum	mg/kg	--	--	--	--	--	--
Antimony	mg/kg	--	--	--	--	--	--
Arsenic	mg/kg	--	--	--	--	--	--
Barium	mg/kg	--	--	--	--	--	--
Beryllium	mg/kg	--	--	--	--	--	--
Cadmium	mg/kg	--	--	--	--	--	--
Calcium	mg/kg	--	--	--	--	--	--
Chromium Total	mg/kg	--	--	--	--	--	--
Cobalt	mg/kg	--	--	--	--	--	--
Copper	mg/kg	--	--	--	--	--	--
Iron	mg/kg	--	--	--	--	--	--
Lead	mg/kg	347	336	23.0	59.0 J	144	148
Magnesium	mg/kg	--	--	--	--	--	--
Manganese	mg/kg	--	--	--	--	--	--
Mercury	mg/kg	--	--	--	--	--	--
Nickel	mg/kg	--	--	--	--	--	--
Potassium	mg/kg	--	--	--	--	--	--
Selenium	mg/kg	--	--	--	--	--	--
Silver	mg/kg	--	--	--	--	--	--
Sodium	mg/kg	--	--	--	--	--	--
Thallium	mg/kg	--	--	--	--	--	--
Vanadium	mg/kg	--	--	--	--	--	--
Zinc	mg/kg	--	--	--	--	--	--
PCBs							
Aroclor-1016 (PCB-1016)	ug/kg	--	--	--	--	--	--
Aroclor-1221 (PCB-1221)	ug/kg	--	--	--	--	--	--
Aroclor-1232 (PCB-1232)	ug/kg	--	--	--	--	--	--
Aroclor-1242 (PCB-1242)	ug/kg	--	--	--	--	--	--
Aroclor-1248 (PCB-1248)	ug/kg	--	--	--	--	--	--
Aroclor-1254 (PCB-1254)	ug/kg	--	--	--	--	--	--
Aroclor-1260 (PCB-1260)	ug/kg	--	--	--	--	--	--

TABLE 3A
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	22 Lester	22 Lester	34 Hayes North	34 Hayes North	34 Hayes South	34 Hayes South
	Sample Name:	SS-37191-050708-CMB-010	SS-37191-050708-CMB-011	SS-37191-050708-CMB-016	SS-37191-050708-CMB-017	SS-37191-050708-CMB-014	SS-37191-050708-CMB-015
	Sample Date:	5/7/2008	5/7/2008	5/7/2008	5/7/2008	5/7/2008	5/7/2008
	Depth:	0 - 0.17 ft	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft
	Sample Type:	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)
	Units						
Pesticides							
4,4'-DDD	ug/kg	--	--	--	--	--	--
4,4'-DDE	ug/kg	--	--	--	--	--	--
4,4'-DDT	ug/kg	--	--	--	--	--	--
Aldrin	ug/kg	--	--	--	--	--	--
alpha-BHC	ug/kg	--	--	--	--	--	--
alpha-Chlordane	ug/kg	--	--	--	--	--	--
beta-BHC	ug/kg	--	--	--	--	--	--
delta-BHC	ug/kg	--	--	--	--	--	--
Dieldrin	ug/kg	--	--	--	--	--	--
Endosulfan I	ug/kg	--	--	--	--	--	--
Endosulfan II	ug/kg	--	--	--	--	--	--
Endosulfan sulfate	ug/kg	--	--	--	--	--	--
Endrin	ug/kg	--	--	--	--	--	--
Endrin aldehyde	ug/kg	--	--	--	--	--	--
Endrin ketone	ug/kg	--	--	--	--	--	--
gamma-BHC (Lindane)	ug/kg	--	--	--	--	--	--
gamma-Chlordane	ug/kg	--	--	--	--	--	--
Heptachlor	ug/kg	--	--	--	--	--	--
Heptachlor epoxide	ug/kg	--	--	--	--	--	--
Methoxychlor	ug/kg	--	--	--	--	--	--
Toxaphene	ug/kg	--	--	--	--	--	--
SVOAs							
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/kg	--	--	--	--	--	--
2,4,5-Trichlorophenol	ug/kg	--	--	--	--	--	--
2,4,6-Trichlorophenol	ug/kg	--	--	--	--	--	--
2,4-Dichlorophenol	ug/kg	--	--	--	--	--	--
2,4-Dimethylphenol	ug/kg	--	--	--	--	--	--
2,4-Dinitrophenol	ug/kg	--	--	--	--	--	--
2,4-Dinitrotoluene	ug/kg	--	--	--	--	--	--
2,6-Dinitrotoluene	ug/kg	--	--	--	--	--	--
2-Chloronaphthalene	ug/kg	--	--	--	--	--	--
2-Chlorophenol	ug/kg	--	--	--	--	--	--
2-Methylnaphthalene	ug/kg	--	--	--	--	--	--
2-Methylphenol	ug/kg	--	--	--	--	--	--
2-Nitroaniline	ug/kg	--	--	--	--	--	--
2-Nitrophenol	ug/kg	--	--	--	--	--	--
3,3'-Dichlorobenzidine	ug/kg	--	--	--	--	--	--
3-Nitroaniline	ug/kg	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	ug/kg	--	--	--	--	--	--
4-Bromophenyl phenyl ether	ug/kg	--	--	--	--	--	--
4-Chloro-3-methylphenol	ug/kg	--	--	--	--	--	--
4-Chloroaniline	ug/kg	--	--	--	--	--	--

TABLE 3A
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	22 Lester	22 Lester	34 Hayes North	34 Hayes North	34 Hayes South	34 Hayes South
	Sample Name:	SS-37191-050708-CMB-010	SS-37191-050708-CMB-011	SS-37191-050708-CMB-016	SS-37191-050708-CMB-017	SS-37191-050708-CMB-014	SS-37191-050708-CMB-015
	Sample Date:	5/7/2008	5/7/2008	5/7/2008	5/7/2008	5/7/2008	5/7/2008
	Depth:	0 - 0.17 ft	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft
	Sample Type:	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)
	Units						
4-Chlorophenyl phenyl ether	ug/kg	--	--	--	--	--	--
4-Methylphenol	ug/kg	--	--	--	--	--	--
SVOAs							
4-Nitroaniline	ug/kg	--	--	--	--	--	--
4-Nitrophenol	ug/kg	--	--	--	--	--	--
Acenaphthene	ug/kg	--	--	--	--	--	--
Acenaphthylene	ug/kg	--	--	--	--	--	--
Acetophenone	ug/kg	--	--	--	--	--	--
Anthracene	ug/kg	--	--	--	--	--	--
Atrazine	ug/kg	--	--	--	--	--	--
Benzaldehyde	ug/kg	--	--	--	--	--	--
Benzo(a)anthracene	ug/kg	--	--	--	--	--	--
Benzo(a)pyrene	ug/kg	--	--	--	--	--	--
Benzo(b)fluoranthene	ug/kg	--	--	--	--	--	--
Benzo(g,h,i)perylene	ug/kg	--	--	--	--	--	--
Benzo(k)fluoranthene	ug/kg	--	--	--	--	--	--
Biphenyl	ug/kg	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	ug/kg	--	--	--	--	--	--
bis(2-Chloroethyl)ether	ug/kg	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	ug/kg	--	--	--	--	--	--
Butyl benzylphthalate	ug/kg	--	--	--	--	--	--
Caprolactam	ug/kg	--	--	--	--	--	--
Carbazole	ug/kg	--	--	--	--	--	--
Chrysene	ug/kg	--	--	--	--	--	--
Dibenz(a,h)anthracene	ug/kg	--	--	--	--	--	--
Dibenzofuran	ug/kg	--	--	--	--	--	--
Diethyl phthalate	ug/kg	--	--	--	--	--	--
Dimethyl phthalate	ug/kg	--	--	--	--	--	--
Di-n-butylphthalate	ug/kg	--	--	--	--	--	--
Di-n-octyl phthalate	ug/kg	--	--	--	--	--	--
Fluoranthene	ug/kg	--	--	--	--	--	--
Fluorene	ug/kg	--	--	--	--	--	--
Hexachlorobenzene	ug/kg	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	--
Hexachlorocyclopentadiene	ug/kg	--	--	--	--	--	--
Hexachloroethane	ug/kg	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	ug/kg	--	--	--	--	--	--
Isophorone	ug/kg	--	--	--	--	--	--
Naphthalene	ug/kg	--	--	--	--	--	--
Nitrobenzene	ug/kg	--	--	--	--	--	--
N-Nitrosodi-n-propylamine	ug/kg	--	--	--	--	--	--
N-Nitrosodiphenylamine	ug/kg	--	--	--	--	--	--
Pentachlorophenol	ug/kg	--	--	--	--	--	--
Phenanthrene	ug/kg	--	--	--	--	--	--
Phenol	ug/kg	--	--	--	--	--	--

TABLE 3A
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	22 Lester	22 Lester	34 Hayes North	34 Hayes North	34 Hayes South	34 Hayes South
	Sample Name:	SS-37191-050708-CMB-010	SS-37191-050708-CMB-011	SS-37191-050708-CMB-016	SS-37191-050708-CMB-017	SS-37191-050708-CMB-014	SS-37191-050708-CMB-015
	Sample Date:	5/7/2008	5/7/2008	5/7/2008	5/7/2008	5/7/2008	5/7/2008
	Depth:	0 - 0.17 ft	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft
	Sample Type:	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)
	Units						
Pyrene	ug/kg	--	--	--	--	--	--
VOAs							
1,1,1-Trichloroethane	ug/kg	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	--	--	--	--	--	--
1,2-Dibromoethane (Ethylene Dibromide)	ug/kg	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--
2-Butanone (Methyl Ethyl Ketone)	ug/kg	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/kg	--	--	--	--	--	--
Acetone	ug/kg	--	--	--	--	--	--
Benzene	ug/kg	--	--	--	--	--	--
Bromodichloromethane	ug/kg	--	--	--	--	--	--
Bromoform	ug/kg	--	--	--	--	--	--
Bromomethane (Methyl Bromide)	ug/kg	--	--	--	--	--	--
Carbon disulfide	ug/kg	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	--
Chlorobenzene	ug/kg	--	--	--	--	--	--
Chloroethane	ug/kg	--	--	--	--	--	--
Chloroform (Trichloromethane)	ug/kg	--	--	--	--	--	--
Chloromethane (Methyl Chloride)	ug/kg	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--
Cyclohexane	ug/kg	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	--	--
Dichlorodifluoromethane (CFC-12)	ug/kg	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--
Isopropylbenzene	ug/kg	--	--	--	--	--	--
Methyl acetate	ug/kg	--	--	--	--	--	--
Methyl cyclohexane	ug/kg	--	--	--	--	--	--
Methyl Tert Butyl Ether	ug/kg	--	--	--	--	--	--
Methylene chloride	ug/kg	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--

TABLE 3A
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	22 Lester	22 Lester	34 Hayes North	34 Hayes North	34 Hayes South	34 Hayes South
	Sample Name:	SS-37191-050708-CMB-010	SS-37191-050708-CMB-011	SS-37191-050708-CMB-016	SS-37191-050708-CMB-017	SS-37191-050708-CMB-014	SS-37191-050708-CMB-015
	Sample Date:	5/7/2008	5/7/2008	5/7/2008	5/7/2008	5/7/2008	5/7/2008
	Depth:	0 - 0.17 ft	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft
	Sample Type:	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)
	Units						
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/kg	--	--	--	--	--	--
VOAs							
Trifluorotrichloroethane (Freon 113)	ug/kg	--	--	--	--	--	--
Vinyl chloride	ug/kg	--	--	--	--	--	--
Xylene (total)	ug/kg	--	--	--	--	--	--
Wet							
Cyanide (total)	mg/kg	--	--	--	--	--	--
Total Solids	%	80.5	81.4	91.7	87.4	87.5	86.8

Notes:

J	Estimated.
PCBs	Polychlorinated Biphenyls.
SVOAs	Semi-Volatile Organic Analytes
U	Not detected.
VOAs	Volatile Organic Analytes

TABLE 3A
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	36 Lester	36 Lester	36 Lester	55 Lester North	55 Lester North	55 Lester South
	Sample Name:	SS-37191-050708-CMB-007	SS-37191-050708-CMB-008	SS-37191-050708-CMB-009	SS-37191-050808-CMB-001	SS-37191-050808-CMB-002	SS-37191-050808-CMB-003
	Sample Date:	5/7/2008	5/7/2008	5/7/2008	5/8/2008	5/8/2008	5/8/2008
	Depth:	0 - 0.17 ft	0 - 0.17 ft	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft	0 - 0.17 ft
	Sample Type:	(Orig.)	Duplicate	(Orig.)	(Orig.)	(Orig.)	(Orig.)
	Units						
Herbicides							
2,4,5-T	ug/kg	--	--	--	--	--	--
2,4,5-TP (Silvex)	ug/kg	--	--	--	--	--	--
2,4-DB	ug/kg	--	--	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	--	--	--	--	--	--
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	ug/kg	--	--	--	--	--	--
Dalapon	ug/kg	--	--	--	--	--	--
Dicamba	ug/kg	--	--	--	--	--	--
Dichlorprop	ug/kg	--	--	--	--	--	--
Dinoseb	ug/kg	--	--	--	--	--	--
Mecoprop (MCPP)	ug/kg	--	--	--	--	--	--
Metals							
Aluminum	mg/kg	--	--	--	--	--	--
Antimony	mg/kg	--	--	--	--	--	--
Arsenic	mg/kg	--	--	--	--	--	--
Barium	mg/kg	--	--	--	--	--	--
Beryllium	mg/kg	--	--	--	--	--	--
Cadmium	mg/kg	--	--	--	--	--	--
Calcium	mg/kg	--	--	--	--	--	--
Chromium Total	mg/kg	--	--	--	--	--	--
Cobalt	mg/kg	--	--	--	--	--	--
Copper	mg/kg	--	--	--	--	--	--
Iron	mg/kg	--	--	--	--	--	--
Lead	mg/kg	74.3	64.8	52.2	66.9 J	30.6 J	46.3 J
Magnesium	mg/kg	--	--	--	--	--	--
Manganese	mg/kg	--	--	--	--	--	--
Mercury	mg/kg	--	--	--	--	--	--
Nickel	mg/kg	--	--	--	--	--	--
Potassium	mg/kg	--	--	--	--	--	--
Selenium	mg/kg	--	--	--	--	--	--
Silver	mg/kg	--	--	--	--	--	--
Sodium	mg/kg	--	--	--	--	--	--
Thallium	mg/kg	--	--	--	--	--	--
Vanadium	mg/kg	--	--	--	--	--	--
Zinc	mg/kg	--	--	--	--	--	--
PCBs							
Aroclor-1016 (PCB-1016)	ug/kg	--	--	--	--	--	--
Aroclor-1221 (PCB-1221)	ug/kg	--	--	--	--	--	--
Aroclor-1232 (PCB-1232)	ug/kg	--	--	--	--	--	--
Aroclor-1242 (PCB-1242)	ug/kg	--	--	--	--	--	--
Aroclor-1248 (PCB-1248)	ug/kg	--	--	--	--	--	--
Aroclor-1254 (PCB-1254)	ug/kg	--	--	--	--	--	--
Aroclor-1260 (PCB-1260)	ug/kg	--	--	--	--	--	--

TABLE 3A
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	36 Lester	36 Lester	36 Lester	55 Lester North	55 Lester North	55 Lester South
	Sample Name:	SS-37191-050708-CMB-007	SS-37191-050708-CMB-008	SS-37191-050708-CMB-009	SS-37191-050808-CMB-001	SS-37191-050808-CMB-002	SS-37191-050808-CMB-003
	Sample Date:	5/7/2008	5/7/2008	5/7/2008	5/8/2008	5/8/2008	5/8/2008
	Depth:	0 - 0.17 ft	0 - 0.17 ft	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft	0 - 0.17 ft
	Sample Type:	(Orig.)	Duplicate	(Orig.)	(Orig.)	(Orig.)	(Orig.)
	Units						
Pesticides							
4,4'-DDD	ug/kg	--	--	--	--	--	--
4,4'-DDE	ug/kg	--	--	--	--	--	--
4,4'-DDT	ug/kg	--	--	--	--	--	--
Aldrin	ug/kg	--	--	--	--	--	--
alpha-BHC	ug/kg	--	--	--	--	--	--
alpha-Chlordane	ug/kg	--	--	--	--	--	--
beta-BHC	ug/kg	--	--	--	--	--	--
delta-BHC	ug/kg	--	--	--	--	--	--
Dieldrin	ug/kg	--	--	--	--	--	--
Endosulfan I	ug/kg	--	--	--	--	--	--
Endosulfan II	ug/kg	--	--	--	--	--	--
Endosulfan sulfate	ug/kg	--	--	--	--	--	--
Endrin	ug/kg	--	--	--	--	--	--
Endrin aldehyde	ug/kg	--	--	--	--	--	--
Endrin ketone	ug/kg	--	--	--	--	--	--
gamma-BHC (Lindane)	ug/kg	--	--	--	--	--	--
gamma-Chlordane	ug/kg	--	--	--	--	--	--
Heptachlor	ug/kg	--	--	--	--	--	--
Heptachlor epoxide	ug/kg	--	--	--	--	--	--
Methoxychlor	ug/kg	--	--	--	--	--	--
Toxaphene	ug/kg	--		--	--	--	--
SVOAs							
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/kg	--		--	--	--	--
2,4,5-Trichlorophenol	ug/kg	--		--	--	--	--
2,4,6-Trichlorophenol	ug/kg	-		--	--	--	--
2,4-Dichlorophenol	ug/kg	-		--	--	--	--
2,4-Dimethylphenol	ug/kg	--		--	--	--	--
2,4-Dinitrophenol	ug/kg	--		--	--	--	--
2,4-Dinitrotoluene	ug/kg	-		--	--	--	--
2,6-Dinitrotoluene	ug/kg			--	--	--	--
2-Chloronaphthalene	ug/kg			--	--	--	--
2-Chlorophenol	ug/kg	--	--	--	--	--	--
2-Methylnaphthalene	ug/kg	--	--	--	--	--	--
2-Methylphenol	ug/kg	--	--	--	--	--	--
2-Nitroaniline	ug/kg	--	--	--	--	--	--
2-Nitrophenol	ug/kg	--	--	--	--	--	--
3,3'-Dichlorobenzidine	ug/kg	--	--	--	--	--	--
3-Nitroaniline	ug/kg	--	--	--	--	--	--
4,6-Dinitro-2-methylphenol	ug/kg	--	--	--	--	--	--
4-Bromophenyl phenyl ether	ug/kg	--	--	--	--	--	--
4-Chloro-3-methylphenol	ug/kg	--	--	--	--	--	--
4-Chloroaniline	ug/kg	--	--	--	--	--	--

TABLE 3A
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	36 Lester	36 Lester	36 Lester	55 Lester North	55 Lester North	55 Lester South
	Sample Name:	SS-37191-050708-CMB-007	SS-37191-050708-CMB-008	SS-37191-050708-CMB-009	SS-37191-050808-CMB-001	SS-37191-050808-CMB-002	SS-37191-050808-CMB-003
	Sample Date:	5/7/2008	5/7/2008	5/7/2008	5/8/2008	5/8/2008	5/8/2008
	Depth:	0 - 0.17 ft	0 - 0.17 ft	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft	0 - 0.17 ft
	Sample Type:	(Orig.)	Duplicate	(Orig.)	(Orig.)	(Orig.)	(Orig.)
	Units						
4-Chlorophenyl phenyl ether	ug/kg	--	--	--	--	--	--
4-Methylphenol	ug/kg	--	--	--	--	--	--
SVOAs							
4-Nitroaniline	ug/kg	--	--	--	--	--	--
4-Nitrophenol	ug/kg	--	--	--	--	--	--
Acenaphthene	ug/kg	--	--	--	--	--	--
Acenaphthylene	ug/kg	--	--	--	--	--	--
Acetophenone	ug/kg	--	--	--	--	--	--
Anthracene	ug/kg	--	--	--	--	--	--
Atrazine	ug/kg	--	--	--	--	--	--
Benzaldehyde	ug/kg	--	--	--	--	--	--
Benzo(a)anthracene	ug/kg	--	--	--	--	--	--
Benzo(a)pyrene	ug/kg	--	--	--	--	--	--
Benzo(b)fluoranthene	ug/kg	--	--	--	--	--	--
Benzo(g,h,i)perylene	ug/kg	--	--	--	--	--	--
Benzo(k)fluoranthene	ug/kg	--	--	--	--	--	--
Biphenyl	ug/kg	--	--	--	--	--	--
bis(2-Chloroethoxy)methane	ug/kg	--	--	--	--	--	--
bis(2-Chloroethyl)ether	ug/kg	--	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	ug/kg	--	--	--	--	--	--
Butyl benzylphthalate	ug/kg	--	--	--	--	--	--
Caprolactam	ug/kg	--	--	--	--	--	--
Carbazole	ug/kg	--	--	--	--	--	--
Chrysene	ug/kg	--	--	--	--	--	--
Dibenz(a,h)anthracene	ug/kg	--	--	--	--	--	--
Dibenzofuran	ug/kg	--	--	--	--	--	--
Diethyl phthalate	ug/kg	--	--	--	--	--	--
Dimethyl phthalate	ug/kg	--	--	--	--	--	--
Di-n-butylphthalate	ug/kg	--	--	--	--	--	--
Di-n-octyl phthalate	ug/kg	--	--	--	--	--	--
Fluoranthene	ug/kg	--	--	--	--	--	--
Fluorene	ug/kg	--	--	--	--	--	--
Hexachlorobenzene	ug/kg	--	--	--	--	--	--
Hexachlorobutadiene	ug/kg	--	--	--	--	--	--
Hexachlorocyclopentadiene	ug/kg	--	--	--	--	--	--
Hexachloroethane	ug/kg	--	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	ug/kg	--	--	--	--	--	--
Isophorone	ug/kg	--	--	--	--	--	--
Naphthalene	ug/kg	--	--	--	--	--	--
Nitrobenzene	ug/kg	--	--	--	--	--	--
N-Nitrosodi-n-propylamine	ug/kg	--	--	--	--	--	--
N-Nitrosodiphenylamine	ug/kg	--	--	--	--	--	--
Pentachlorophenol	ug/kg	--	--	--	--	--	--
Phenanthrene	ug/kg	--	--	--	--	--	--
Phenol	ug/kg	--	--	--	--	--	--

TABLE 3A
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	36 Lester	36 Lester	36 Lester	55 Lester North	55 Lester North	55 Lester South
	Sample Name:	SS-37191-050708-CMB-007	SS-37191-050708-CMB-008	SS-37191-050708-CMB-009	SS-37191-050808-CMB-001	SS-37191-050808-CMB-002	SS-37191-050808-CMB-003
	Sample Date:	5/7/2008	5/7/2008	5/7/2008	5/8/2008	5/8/2008	5/8/2008
	Depth:	0 - 0.17 ft	0 - 0.17 ft	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft	0 - 0.17 ft
	Sample Type:	(Orig.)	Duplicate	(Orig.)	(Orig.)	(Orig.)	(Orig.)
	Units						
Pyrene	ug/kg	--	--	--	--	--	--
VOAs							
1,1,1-Trichloroethane	ug/kg	--	--	--	--	--	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	--	--	--
1,1,2-Trichloroethane	ug/kg	--	--	--	--	--	--
1,1-Dichloroethane	ug/kg	--	--	--	--	--	--
1,1-Dichloroethene	ug/kg	--	--	--	--	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	--	--	--
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	--	--	--	--	--	--
1,2-Dibromoethane (Ethylene Dibromide)	ug/kg	--	--	--	--	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	--	--	--
1,2-Dichloroethane	ug/kg	--	--	--	--	--	--
1,2-Dichloropropane	ug/kg	--	--	--	--	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	--	--	--
1,4-Dichlorobenzene	ug/kg	--	--	--	--	--	--
2-Butanone (Methyl Ethyl Ketone)	ug/kg	--	--	--	--	--	--
2-Hexanone	ug/kg	--	--	--	--	--	--
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/kg	--	--	--	--	--	--
Acetone	ug/kg	--	--	--	--	--	--
Benzene	ug/kg	--	--	--	--	--	--
Bromodichloromethane	ug/kg	--	--	--	--	--	--
Bromoform	ug/kg	--	--	--	--	--	--
Bromomethane (Methyl Bromide)	ug/kg	--	--	--	--	--	--
Carbon disulfide	ug/kg	--	--	--	--	--	--
Carbon tetrachloride	ug/kg	--	--	--	--	--	--
Chlorobenzene	ug/kg	--	--	--	--	--	--
Chloroethane	ug/kg	--	--	--	--	--	--
Chloroform (Trichloromethane)	ug/kg	--	--	--	--	--	--
Chloromethane (Methyl Chloride)	ug/kg	--	--	--	--	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--
Cyclohexane	ug/kg	--	--	--	--	--	--
Dibromochloromethane	ug/kg	--	--	--	--	--	--
Dichlorodifluoromethane (CFC-12)	ug/kg	--	--	--	--	--	--
Ethylbenzene	ug/kg	--	--	--	--	--	--
Isopropylbenzene	ug/kg	--	--	--	--	--	--
Methyl acetate	ug/kg	--	--	--	--	--	--
Methyl cyclohexane	ug/kg	--	--	--	--	--	--
Methyl Tert Butyl Ether	ug/kg	--	--	--	--	--	--
Methylene chloride	ug/kg	--	--	--	--	--	--
Styrene	ug/kg	--	--	--	--	--	--
Tetrachloroethene	ug/kg	--	--	--	--	--	--
Toluene	ug/kg	--	--	--	--	--	--

TABLE 3A
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	*36 Lester*	*36 Lester*	*36 Lester*	*55 Lester North*	*55 Lester North*	*55 Lester South*
	Sample Name:	*SS-37191-050708-CMB-007*	*SS-37191-050708-CMB-008*	*SS-37191-050708-CMB-009*	*SS-37191-050808-CMB-001*	*SS-37191-050808-CMB-002*	*SS-37191-050808-CMB-003*
	Sample Date:	*5/7/2008*	*5/7/2008*	*5/7/2008*	*5/8/2008*	*5/8/2008*	*5/8/2008*
	Depth:	*0 - 0.17 ft*	*0 - 0.17 ft*	*0.15 - 0.33 ft*	*0 - 0.17 ft*	*0.15 - 0.33 ft*	*0 - 0.17 ft*
	Sample Type:	*(Orig.)*	*Duplicate*	*(Orig.)*	*(Orig.)*	*(Orig.)*	*(Orig.)*
	Units						
trans-1,2-Dichloroethene	ug/kg	--	--	--	--	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	--	--	--
Trichloroethene	ug/kg	--	--	--	--	--	--
Trichlorofluoromethane (CFC-11)	ug/kg	--	--	--	--	--	--
VOAs							
Trifluorotrichloroethane (Freon 113)	ug/kg	--	--	--	--	--	--
Vinyl chloride	ug/kg	--	--	--	--	--	--
Xylene (total)	ug/kg	--	--	--	--	--	--
Wet							
Cyanide (total)	mg/kg	--	--	--	--	--	--
Total Solids	%	92.9	93.6	93.6	88.3	85.4	78.5

Notes:

J	Estimated.
PCBs	Polychlorinated Biphenyls.
SVOAs	Semi-Volatile Organic Analytes
U	Not detected.
VOAs	Volatile Organic Analytes

TABLE 3A
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	55 Lester South	58 Lester	58 Lester	MW-14	MW-17	NE Harrison St WH
	Sample Name:	SS-37191-050808-CMB-004	SS-37191-050808-CMB-005	SS-37191-050808-CMB-006	SB-37191-050808-JP-011	SB-37191-050908-JP-002	SS-37191-050708-CMB-020
	Sample Date:	5/8/2008	5/8/2008	5/8/2008	5/8/2008	5/9/2008	5/7/2008
	Depth:	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft	0 - 2 ft	0 - 2 ft	0 - 0.17 ft
	Sample Type:	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)
	Units						
Herbicides							
2,4,5-T	ug/kg	--	--	--	24 U	23 U	--
2,4,5-TP (Silvex)	ug/kg	--	--	--	24 U	23 U	--
2,4-DB	ug/kg	--	--	--	98 U	92 U	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	--	--	--	98 U	92 U	--
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	ug/kg	--	--	--	9800 U	9200 U	--
Dalapon	ug/kg	--	--	--	110 U	100 U	--
Dicamba	ug/kg	--	--	--	49 U	46 U	--
Dichlorprop	ug/kg	--	--	--	98 U	92 U	--
Dinoseb	ug/kg	--	--	--	15 U	14 U	--
Mecoprop (MCPP)	ug/kg	--	--	--	9800 U	9200 U	--
Metals							
Aluminum	mg/kg	--	--	--	8680	18700	--
Antimony	mg/kg	--	--	--	1.2 U	1.2 U	--
Arsenic	mg/kg	--	--	--	5.1	5.2	--
Barium	mg/kg	--	--	--	47.0	200	--
Beryllium	mg/kg	--	--	--	0.49 U	2.9	--
Cadmium	mg/kg	--	--	--	0.54 J	1.4 J	--
Calcium	mg/kg	--	--	--	2200	110000	--
Chromium Total	mg/kg	--	--	--	11.9	63.9	--
Cobalt	mg/kg	--	--	--	3.8 J	2.6 J	--
Copper	mg/kg	--	--	--	11.9	35.3	--
Iron	mg/kg	--	--	--	15300	27300	--
Lead	mg/kg	92.1 J	348 J	385 J	48.4 J	87.3 J	15.2
Magnesium	mg/kg	--	--	--	1950	15300	--
Manganese	mg/kg	--	--	--	135 J	3240 J	--
Mercury	mg/kg	--	--	--	0.16	0.035 J	--
Nickel	mg/kg	--	--	--	11.4	12.8	--
Potassium	mg/kg	--	--	--	892	1350	--
Selenium	mg/kg	--	--	--	0.49 J	1.2	--
Silver	mg/kg	--	--	--	0.61 U	0.88	--
Sodium	mg/kg	--	--	--	41.7 J	527 J	--
Thallium	mg/kg	--	--	--	1.2 U	2.3 U	--
Vanadium	mg/kg	--	--	--	19.3	24.3	--
Zinc	mg/kg	--	--	--	71.7	169	--
PCBs							
Aroclor-1016 (PCB-1016)	ug/kg	--	--	--	20 U	19 U	--
Aroclor-1221 (PCB-1221)	ug/kg	--	--	--	20 U	19 U	--
Aroclor-1232 (PCB-1232)	ug/kg	--	--	--	20 U	19 U	--
Aroclor-1242 (PCB-1242)	ug/kg	--	--	--	20 U	19 U	--
Aroclor-1248 (PCB-1248)	ug/kg	--	--	--	20 U	19 U	--
Aroclor-1254 (PCB-1254)	ug/kg	--	--	--	20 U	19 U	--
Aroclor-1260 (PCB-1260)	ug/kg	--	--	--	11 J	14 J	--

TABLE 3A
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	55 Lester South	58 Lester	58 Lester	MW-14	MW-17	NE Harrison St WH
	Sample Name:	SS-37191-050808-CMB-004	SS-37191-050808-CMB-005	SS-37191-050808-CMB-006	SB-37191-050808-JP-011	SB-37191-050908-JP-002	SS-37191-050708-CMB-020
	Sample Date:	5/8/2008	5/8/2008	5/8/2008	5/8/2008	5/9/2008	5/7/2008
	Depth:	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft	0 - 2 ft	0 - 2 ft	0 - 0.17 ft
	Sample Type:	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)
	Units						
Pesticides							
4,4'-DDD	ug/kg	--	--	--	2.1 U	1.5 J	--
4,4'-DDE	ug/kg	--	--	--	4.6	2.0 U	--
4,4'-DDT	ug/kg	--	--	--	3.5	2.0 U	--
Aldrin	ug/kg	--	--	--	2.1 U	2.0 U	--
alpha-BHC	ug/kg	--	--	--	2.1 U	2.0 U	--
alpha-Chlordane	ug/kg	--	--	--	2.1 U	2.0 U	--
beta-BHC	ug/kg	--	--	--	2.1 U	2.0 U	--
delta-BHC	ug/kg	--	--	--	2.1 U	2.0 U	--
Dieldrin	ug/kg	--	--	--	2.1 U	2.0 U	--
Endosulfan I	ug/kg	--	--	--	2.1 U	2.0 U	--
Endosulfan II	ug/kg	--	--	--	2.1 U	2.0 U	--
Endosulfan sulfate	ug/kg	--	--	--	2.1 U	2.0 U	--
Endrin	ug/kg	--	--	--	2.1 U	2.0 U	--
Endrin aldehyde	ug/kg	--	--	--	2.1 U	2.0 U	--
Endrin ketone	ug/kg	--	--	--	0.91 J	2.0 U	--
gamma-BHC (Lindane)	ug/kg	--	--	--	2.1 U	17 J	--
gamma-Chlordane	ug/kg	--	--	--	2.1 U	2.0 U	--
Heptachlor	ug/kg	--	--	--	2.1 U	1.6 J	--
Heptachlor epoxide	ug/kg	--	--	--	2.1 U	2.0 U	--
Methoxychlor	ug/kg	--	--	--	4.0 U	3.8 U	--
Toxaphene	ug/kg	--	--	--	81 U	77 U	--
SVOAs							
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/kg	--	--	--	82 U	77 U	--
2,4,5-Trichlorophenol	ug/kg	--	--	--	400 U	380 U	--
2,4,6-Trichlorophenol	ug/kg	--	--	--	400 U	380 U	--
2,4-Dichlorophenol	ug/kg	--	--	--	82 U	77 U	--
2,4-Dimethylphenol	ug/kg	--	--	--	400 U	380 U	--
2,4-Dinitrophenol	ug/kg	--	--	--	2000 U	1900 U	--
2,4-Dinitrotoluene	ug/kg	--	--	--	400 U	380 U	--
2,6-Dinitrotoluene	ug/kg	--	--	--	400 U	380 U	--
2-Chloronaphthalene	ug/kg	--	--	--	82 U	77 U	--
2-Chlorophenol	ug/kg	--	--	--	400 U	380 U	--
2-Methylnaphthalene	ug/kg	--	--	--	22 J	170	--
2-Methylphenol	ug/kg	--	--	--	400 U	380 U	--
2-Nitroaniline	ug/kg	--	--	--	2000 U	1900 U	--
2-Nitrophenol	ug/kg	--	--	--	400 U	380 U	--
3,3'-Dichlorobenzidine	ug/kg	--	--	--	400 U	380 U	--
3-Nitroaniline	ug/kg	--	--	--	2000 U	1900 U	--
4,6-Dinitro-2-methylphenol	ug/kg	--	--	--	1900 U	1800 U	--
4-Bromophenyl phenyl ether	ug/kg	--	--	--	400 U	380 U	--
4-Chloro-3-methylphenol	ug/kg	--	--	--	400 U	380 U	--
4-Chloroaniline	ug/kg	--	--	--	400 U	380 U	--

TABLE 3A
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	55 Lester South	58 Lester	58 Lester	MW-14	MW-17	NE Harrison St WH
	Sample Name:	SS-37191-050808-CMB-004	SS-37191-050808-CMB-005	SS-37191-050808-CMB-006	SB-37191-050808-JP-011	SB-37191-050908-JP-002	SS-37191-050708-CMB-020
	Sample Date:	5/8/2008	5/8/2008	5/8/2008	5/8/2008	5/9/2008	5/7/2008
	Depth:	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft	0 - 2 ft	0 - 2 ft	0 - 0.17 ft
	Sample Type:	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)
	Units						
4-Chlorophenyl phenyl ether	ug/kg	--	--	--	400 U	380 U	--
4-Methylphenol	ug/kg	--	--	--	400 U	380 U	--
SVOAs							
4-Nitroaniline	ug/kg	--	--	--	2000 U	1900 U	--
4-Nitrophenol	ug/kg	--	--	--	2000 U	1900 U	--
Acenaphthene	ug/kg	--	--	--	82 U	110	--
Acenaphthylene	ug/kg	--	--	--	47 J	960	--
Acetophenone	ug/kg	--	--	--	400 U	380 U	--
Anthracene	ug/kg	--	--	--	62 J	1400	--
Atrazine	ug/kg	--	--	--	400 U	380 U	--
Benzaldehyde	ug/kg	--	--	--	400 U	380 U	--
Benzo(a)anthracene	ug/kg	--	--	--	260	3700	--
Benzo(a)pyrene	ug/kg	--	--	--	260	2800	--
Benzo(b)fluoranthene	ug/kg	--	--	--	510	5000	--
Benzo(g,h,i)perylene	ug/kg	--	--	--	150	2100	--
Benzo(k)fluoranthene	ug/kg	--	--	--	82 U	77 U	--
Biphenyl	ug/kg	--	--	--	400 U	57 J	--
bis(2-Chloroethoxy)methane	ug/kg	--	--	--	400 U	380 U	--
bis(2-Chloroethyl)ether	ug/kg	--	--	--	82 U	77 U	--
bis(2-Ethylhexyl)phthalate	ug/kg	--	--	--	400 U	720	--
Butyl benzylphthalate	ug/kg	--	--	--	400 U	380 U	--
Caprolactam	ug/kg	--	--	--	85 J	380 U	--
Carbazole	ug/kg	--	--	--	31 J	400	--
Chrysene	ug/kg	--	--	--	310	2900	--
Dibenz(a,h)anthracene	ug/kg	--	--	--	40 J	660	--
Dibenzofuran	ug/kg	--	--	--	400 U	370 J	--
Diethyl phthalate	ug/kg	--	--	--	400 U	380 U	--
Dimethyl phthalate	ug/kg	--	--	--	400 U	380 U	--
Di-n-butylphthalate	ug/kg	--	--	--	400 U	380 U	--
Di-n-octyl phthalate	ug/kg	--	--	--	400 U	380 U	--
Fluoranthene	ug/kg	--	--	--	520	7100	--
Fluorene	ug/kg	--	--	--	82 U	360	--
Hexachlorobenzene	ug/kg	--	--	--	82 U	77 U	--
Hexachlorobutadiene	ug/kg	--	--	--	82 U	77 U	--
Hexachlorocyclopentadiene	ug/kg	--	--	--	400 U	380 U	--
Hexachloroethane	ug/kg	--	--	--	400 U	380 U	--
Indeno(1,2,3-cd)pyrene	ug/kg	--	--	--	140	2100	--
Isophorone	ug/kg	--	--	--	400 U	380 U	--
Naphthalene	ug/kg	--	--	--	23 J	150	--
Nitrobenzene	ug/kg	--	--	--	82 U	77 U	--
N-Nitrosodi-n-propylamine	ug/kg	--	--	--	82 U	77 U	--
N-Nitrosodiphenylamine	ug/kg	--	--	--	400 U	380 U	--
Pentachlorophenol	ug/kg	--	--	--	400 U	380 U	--
Phenanthrene	ug/kg	--	--	--	220	4400	--
Phenol	ug/kg	--	--	--	82 U	77 U	--

TABLE 3A
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	55 Lester South	58 Lester	58 Lester	MW-14	MW-17	NE Harrison St WH
	Sample Name:	SS-37191-050808-CMB-004	SS-37191-050808-CMB-005	SS-37191-050808-CMB-006	SB-37191-050808-JP-011	SB-37191-050908-JP-002	SS-37191-050708-CMB-020
	Sample Date:	5/8/2008	5/8/2008	5/8/2008	5/8/2008	5/9/2008	5/7/2008
	Depth:	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft	0 - 2 ft	0 - 2 ft	0 - 0.17 ft
	Sample Type:	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)
	Units						
Pyrene	ug/kg	--	--	--	370	5100	--
VOAs							
1,1,1-Trichloroethane	ug/kg	--	--	--	6.1 U	5.8 U	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	6.1 U	5.8 U	--
1,1,2-Trichloroethane	ug/kg	--	--	--	6.1 U	5.8 U	--
1,1-Dichloroethane	ug/kg	--	--	--	6.1 U	5.8 U	--
1,1-Dichloroethene	ug/kg	--	--	--	6.1 U	5.8 U	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	6.1 U	5.8 U	--
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	--	--	--	6.1 U	5.8 U	--
1,2-Dibromoethane (Ethylene Dibromide)	ug/kg	--	--	--	6.1 U	5.8 U	--
1,2-Dichlorobenzene	ug/kg	--	--	--	6.1 U	5.8 U	--
1,2-Dichloroethane	ug/kg	--	--	--	6.1 U	5.8 U	--
1,2-Dichloropropane	ug/kg	--	--	--	6.1 U	5.8 U	--
1,3-Dichlorobenzene	ug/kg	--	--	--	6.1 U	5.8 U	--
1,4-Dichlorobenzene	ug/kg	--	--	--	6.1 U	5.8 U	--
2-Butanone (Methyl Ethyl Ketone)	ug/kg	--	--	--	6.1 U	5.8 U	--
2-Hexanone	ug/kg	--	--	--	6.1 U	5.8 U	--
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/kg	--	--	--	6.1 U	5.8 U	--
Acetone	ug/kg	--	--	--	24 UJ	23 UJ	--
Benzene	ug/kg	--	--	--	6.1 U	5.8 U	--
Bromodichloromethane	ug/kg	--	--	--	6.1 U	5.8 U	--
Bromoform	ug/kg	--	--	--	6.1 U	5.8 U	--
Bromomethane (Methyl Bromide)	ug/kg	--	--	--	6.1 UJ	5.8 UJ	--
Carbon disulfide	ug/kg	--	--	--	6.1 U	5.8 U	--
Carbon tetrachloride	ug/kg	--	--	--	6.1 U	5.8 U	--
Chlorobenzene	ug/kg	--	--	--	6.1 U	5.8 U	--
Chloroethane	ug/kg	--	--	--	6.1 UJ	5.8 UJ	--
Chloroform (Trichloromethane)	ug/kg	--	--	--	6.1 U	5.8 U	--
Chloromethane (Methyl Chloride)	ug/kg	--	--	--	6.1 U	5.8 U	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	6.1 U	5.8 U	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	6.1 U	5.8 U	--
Cyclohexane	ug/kg	--	--	--	6.1 U	5.8 U	--
Dibromochloromethane	ug/kg	--	--	--	6.1 U	5.8 U	--
Dichlorodifluoromethane (CFC-12)	ug/kg	--	--	--	6.1 U	5.8 U	--
Ethylbenzene	ug/kg	--	--	--	6.1 U	5.8 U	--
Isopropylbenzene	ug/kg	--	--	--	6.1 U	5.8 U	--
Methyl acetate	ug/kg	--	--	--	6.1 U	5.8 U	--
Methyl cyclohexane	ug/kg	--	--	--	6.1 U	5.8 U	--
Methyl Tert Butyl Ether	ug/kg	--	--	--	6.1 U	5.8 U	--
Methylene chloride	ug/kg	--	--	--	31	9.7	--
Styrene	ug/kg	--	--	--	6.1 U	5.8 U	--
Tetrachloroethene	ug/kg	--	--	--	6.1 U	5.8 U	--
Toluene	ug/kg	--	--	--	6.1 U	5.8 U	--

TABLE 3A
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	55 Lester South	58 Lester	58 Lester	MW-14	MW-17	NE Harrison St WH
	Sample Name:	SS-37191-050808-CMB-004	SS-37191-050808-CMB-005	SS-37191-050808-CMB-006	SB-37191-050808-JP-011	SB-37191-050908-JP-002	SS-37191-050708-CMB-020
	Sample Date:	5/8/2008	5/8/2008	5/8/2008	5/8/2008	5/9/2008	5/7/2008
	Depth:	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft	0 - 2 ft	0 - 2 ft	0 - 0.17 ft
	Sample Type:	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)
	Units						
trans-1,2-Dichloroethene	ug/kg	--	--	--	6.1 U	5.8 U	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	6.1 U	5.8 U	--
Trichloroethene	ug/kg	--	--	--	6.1 U	5.8 U	--
Trichlorofluoromethane (CFC-11)	ug/kg	--	--	--	6.1 U	5.8 U	--
VOAs							
Trifluorotrichloroethane (Freon 113)	ug/kg	--	--	--	6.1 U	5.8 U	--
Vinyl chloride	ug/kg	--	--	--	6.1 U	5.8 U	--
Xylene (total)	ug/kg	--	--	--	18 U	17 U	--
Wet							
Cyanide (total)	mg/kg	--	--	--	0.61 U	3.3	--
Total Solids	%	85.1	69.1	72.2	81.8	86.9	87.1

Notes:

J	Estimated.
PCBs	Polychlorinated Biphenyls.
SVOAs	Semi-Volatile Organic Analytes
U	Not detected.
VOAs	Volatile Organic Analytes

TABLE 3A
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	*NE Harrison St WH*	*S Harrison St WH*	*S Harrison St WH*	*SB-18-08*	*Soil Mound*	*Soil Mound*
	Sample Name:	*SS-37191-050708-CMB-021*	*SS-37191-050708-CMB-022*	*SS-37191-050708-CMB-023*	*SB-37191-050908-JP-001*	*SS-37191-050708-CMB-018*	*SS-37191-050708-CMB-019*
	Sample Date:	*5/7/2008*	*5/7/2008*	*5/7/2008*	*5/9/2008*	*5/7/2008*	*5/7/2008*
	Depth:	*0.15 - 0.33 ft*	*0 - 0.17 ft*	*0.15 - 0.33 ft*	*0 - 2 ft*	*0 - 0.17 ft*	*0.15 - 0.33 ft*
	Sample Type:	*(Orig.)*	*(Orig.)*	*(Orig.)*	*(Orig.)*	*(Orig.)*	*(Orig.)*
	Units						
Herbicides							
2,4,5-T	ug/kg	--	--	--	24 U	--	--
2,4,5-TP (Silvex)	ug/kg	--	--	--	24 U	--	--
2,4-DB	ug/kg	--	--	--	97 U	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/kg	--	--	--	97 U	--	--
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	ug/kg	--	--	--	9700 U	--	--
Dalapon	ug/kg	--	--	--	110 U	--	--
Dicamba	ug/kg	--	--	--	49 U	--	--
Dichlorprop	ug/kg	--	--	--	97 U	--	--
Dinoseb	ug/kg	--	--	--	15 U	--	--
Mecoprop (MCPP)	ug/kg	--	--	--	9700 U	--	--
Metals							
Aluminum	mg/kg	--	--	--	8000	--	--
Antimony	mg/kg	--	--	--	1.2 U	--	--
Arsenic	mg/kg	--	--	--	5.9	--	--
Barium	mg/kg	--	--	--	161	--	--
Beryllium	mg/kg	--	--	--	1.1	--	--
Cadmium	mg/kg	--	--	--	1.1 J	--	--
Calcium	mg/kg	--	--	--	45000	--	--
Chromium Total	mg/kg	--	--	--	23.5	--	--
Cobalt	mg/kg	--	--	--	2.3 J	--	--
Copper	mg/kg	--	--	--	18.8	--	--
Iron	mg/kg	--	--	--	14200	--	--
Lead	mg/kg	33.7	738 J	742 J	104 J	30.8	2090 J
Magnesium	mg/kg	--	--	--	5200	--	--
Manganese	mg/kg	--	--	--	795 J	--	--
Mercury	mg/kg	--	--	--	0.18	--	--
Nickel	mg/kg	--	--	--	8.4	--	--
Potassium	mg/kg	--	--	--	679	--	--
Selenium	mg/kg	--	--	--	0.51 J	--	--
Silver	mg/kg	--	--	--	0.26 J	--	--
Sodium	mg/kg	--	--	--	296 J	--	--
Thallium	mg/kg	--	--	--	1.2 U	--	--
Vanadium	mg/kg	--	--	--	18.4	--	--
Zinc	mg/kg	--	--	--	166	--	--
PCBs							
Aroclor-1016 (PCB-1016)	ug/kg	--	--	--	20 U	--	--
Aroclor-1221 (PCB-1221)	ug/kg	--	--	--	20 U	--	--
Aroclor-1232 (PCB-1232)	ug/kg	--	--	--	20 U	--	--
Aroclor-1242 (PCB-1242)	ug/kg	--	--	--	20 U	--	--
Aroclor-1248 (PCB-1248)	ug/kg	--	--	--	20 U	--	--
Aroclor-1254 (PCB-1254)	ug/kg	--	--	--	20 U	--	--
Aroclor-1260 (PCB-1260)	ug/kg	--	--	--	20 U	--	--

TABLE 3A
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	NE Harrison St WH	S Harrison St WH	S Harrison St WH	SB-18-08	Soil Mound	Soil Mound
	Sample Name:	SS-37191-050708-CMB-021	SS-37191-050708-CMB-022	SS-37191-050708-CMB-023	SB-37191-050908-JP-001	SS-37191-050708-CMB-018	SS-37191-050708-CMB-019
	Sample Date:	5/7/2008	5/7/2008	5/7/2008	5/9/2008	5/7/2008	5/7/2008
	Depth:	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft	0 - 2 ft	0 - 0.17 ft	0.15 - 0.33 ft
	Sample Type:	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)
	Units						
Pesticides							
4,4'-DDD	ug/kg	--	--	--	2.1 U	--	--
4,4'-DDE	ug/kg	--	--	--	3.9	--	--
4,4'-DDT	ug/kg	--	--	--	6.8	--	--
Aldrin	ug/kg	--	--	--	2.1 U	--	--
alpha-BHC	ug/kg	--	--	--	2.1 U	--	--
alpha-Chlordane	ug/kg	--	--	--	2.1 U	--	--
beta-BHC	ug/kg	--	--	--	2.1 U	--	--
delta-BHC	ug/kg	--	--	--	2.1 U	--	--
Dieldrin	ug/kg	--	--	--	2.1 U	--	--
Endosulfan I	ug/kg	--	--	--	2.1 U	--	--
Endosulfan II	ug/kg	--	--	--	2.1 U	--	--
Endosulfan sulfate	ug/kg	--	--	--	2.1 U	--	--
Endrin	ug/kg	--	--	--	2.1 U	--	--
Endrin aldehyde	ug/kg	--	--	--	2.1 U	--	--
Endrin ketone	ug/kg	--	--	--	2.1 U	--	--
gamma-BHC (Lindane)	ug/kg	--	--	--	2.1 U	--	--
gamma-Chlordane	ug/kg	--	--	--	2.1 U	--	--
Heptachlor	ug/kg	--	--	--	2.1 U	--	--
Heptachlor epoxide	ug/kg	--	--	--	2.1 U	--	--
Methoxychlor	ug/kg	--	--	--	4.0 U	--	--
Toxaphene	ug/kg	--	--	--	82 U	--	--
SVOAs							
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/kg	--	--	--	160 U	--	--
2,4,5-Trichlorophenol	ug/kg	--	--	--	790 U	--	--
2,4,6-Trichlorophenol	ug/kg	--	--	--	790 U	--	--
2,4-Dichlorophenol	ug/kg	--	--	--	160 U	--	--
2,4-Dimethylphenol	ug/kg	--	--	--	790 U	--	--
2,4-Dinitrophenol	ug/kg	--	--	--	4000 U	--	--
2,4-Dinitrotoluene	ug/kg	--	--	--	790 U	--	--
2,6-Dinitrotoluene	ug/kg	--	--	--	790 U	--	--
2-Chloronaphthalene	ug/kg	--	--	--	160 U	--	--
2-Chlorophenol	ug/kg	--	--	--	790 U	--	--
2-Methylnaphthalene	ug/kg	--	--	--	160 U	--	--
2-Methylphenol	ug/kg	--	--	--	790 U	--	--
2-Nitroaniline	ug/kg	--	--	--	4000 U	--	--
2-Nitrophenol	ug/kg	--	--	--	790 U	--	--
3,3'-Dichlorobenzidine	ug/kg	--	--	--	790 U	--	--
3-Nitroaniline	ug/kg	--	--	--	4000 U	--	--
4,6-Dinitro-2-methylphenol	ug/kg	--	--	--	3800 U	--	--
4-Bromophenyl phenyl ether	ug/kg	--	--	--	790 U	--	--
4-Chloro-3-methylphenol	ug/kg	--	--	--	790 U	--	--
4-Chloroaniline	ug/kg	--	--	--	790 U	--	--

TABLE 3A
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	NE Harrison St WH	S Harrison St WH	S Harrison St WH	SB-18-08	Soil Mound	Soil Mound
	Sample Name:	SS-37191-050708-CMB-021	SS-37191-050708-CMB-022	SS-37191-050708-CMB-023	SB-37191-050908-JP-001	SS-37191-050708-CMB-018	SS-37191-050708-CMB-019
	Sample Date:	5/7/2008	5/7/2008	5/7/2008	5/9/2008	5/7/2008	5/7/2008
	Depth:	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft	0 - 2 ft	0 - 0.17 ft	0.15 - 0.33 ft
	Sample Type:	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)
	Units						
4-Chlorophenyl phenyl ether	ug/kg	--	--	--	790 U	--	--
4-Methylphenol	ug/kg	--	--	--	790 U	--	--
SVOAs							
4-Nitroaniline	ug/kg	--	--	--	4000 U	--	--
4-Nitrophenol	ug/kg	--	--	--	4000 U	--	--
Acenaphthene	ug/kg	--	--	--	160 U	--	--
Acenaphthylene	ug/kg	--	--	--	59 J	--	--
Acetophenone	ug/kg	--	--	--	790 U	--	--
Anthracene	ug/kg	--	--	--	65 J	--	--
Atrazine	ug/kg	--	--	--	790 U	--	--
Benzaldehyde	ug/kg	--	--	--	790 U	--	--
Benzo(a)anthracene	ug/kg	--	--	--	230	--	--
Benzo(a)pyrene	ug/kg	--	--	--	210	--	--
Benzo(b)fluoranthene	ug/kg	--	--	--	350	--	--
Benzo(g,h,i)perylene	ug/kg	--	--	--	140 J	--	--
Benzo(k)fluoranthene	ug/kg	--	--	--	160 U	--	--
Biphenyl	ug/kg	--	--	--	790 U	--	--
bis(2-Chloroethoxy)methane	ug/kg	--	--	--	790 U	--	--
bis(2-Chloroethyl)ether	ug/kg	--	--	--	160 U	--	--
bis(2-Ethylhexyl)phthalate	ug/kg	--	--	--	200 J	--	--
Butyl benzylphthalate	ug/kg	--	--	--	790 U	--	--
Caprolactam	ug/kg	--	--	--	790 U	--	--
Carbazole	ug/kg	--	--	--	59 J	--	--
Chrysene	ug/kg	--	--	--	210	--	--
Dibenz(a,h)anthracene	ug/kg	--	--	--	160 U	--	--
Dibenzofuran	ug/kg	--	--	--	790 U	--	--
Diethyl phthalate	ug/kg	--	--	--	790 U	--	--
Dimethyl phthalate	ug/kg	--	--	--	790 U	--	--
Di-n-butylphthalate	ug/kg	--	--	--	790 U	--	--
Di-n-octyl phthalate	ug/kg	--	--	--	790 U	--	--
Fluoranthene	ug/kg	--	--	--	420	--	--
Fluorene	ug/kg	--	--	--	160 U	--	--
Hexachlorobenzene	ug/kg	--	--	--	160 U	--	--
Hexachlorobutadiene	ug/kg	--	--	--	160 U	--	--
Hexachlorocyclopentadiene	ug/kg	--	--	--	790 U	--	--
Hexachloroethane	ug/kg	--	--	--	790 U	--	--
Indeno(1,2,3-cd)pyrene	ug/kg	--	--	--	130 J	--	--
Isophorone	ug/kg	--	--	--	790 U	--	--
Naphthalene	ug/kg	--	--	--	160 U	--	--
Nitrobenzene	ug/kg	--	--	--	160 U	--	--
N-Nitrosodi-n-propylamine	ug/kg	--	--	--	160 U	--	--
N-Nitrosodiphenylamine	ug/kg	--	--	--	790 U	--	--
Pentachlorophenol	ug/kg	--	--	--	790 U	--	--
Phenanthrene	ug/kg	--	--	--	230	--	--
Phenol	ug/kg	--	--	--	160 U	--	--

TABLE 3A
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	NE Harrison St WH	S Harrison St WH	S Harrison St WH	SB-18-08	Soil Mound	Soil Mound
	Sample Name:	SS-37191-050708-CMB-021	SS-37191-050708-CMB-022	SS-37191-050708-CMB-023	SB-37191-050908-JP-001	SS-37191-050708-CMB-018	SS-37191-050708-CMB-019
	Sample Date:	5/7/2008	5/7/2008	5/7/2008	5/9/2008	5/7/2008	5/7/2008
	Depth:	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft	0 - 2 ft	0 - 0.17 ft	0.15 - 0.33 ft
	Sample Type:	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)
	Units						
Pyrene	ug/kg	--	--	--	340	--	--
VOAs							
1,1,1-Trichloroethane	ug/kg	--	--	--	6.1 U	--	--
1,1,2,2-Tetrachloroethane	ug/kg	--	--	--	6.1 U	--	--
1,1,2-Trichloroethane	ug/kg	--	--	--	6.1 U	--	--
1,1-Dichloroethane	ug/kg	--	--	--	6.1 U	--	--
1,1-Dichloroethene	ug/kg	--	--	--	6.1 U	--	--
1,2,4-Trichlorobenzene	ug/kg	--	--	--	6.1 U	--	--
1,2-Dibromo-3-chloropropane (DBCP)	ug/kg	--	--	--	6.1 U	--	--
1,2-Dibromoethane (Ethylene Dibromide)	ug/kg	--	--	--	6.1 U	--	--
1,2-Dichlorobenzene	ug/kg	--	--	--	6.1 U	--	--
1,2-Dichloroethane	ug/kg	--	--	--	6.1 U	--	--
1,2-Dichloropropane	ug/kg	--	--	--	6.1 U	--	--
1,3-Dichlorobenzene	ug/kg	--	--	--	6.1 U	--	--
1,4-Dichlorobenzene	ug/kg	--	--	--	6.1 U	--	--
2-Butanone (Methyl Ethyl Ketone)	ug/kg	--	--	--	6.1 U	--	--
2-Hexanone	ug/kg	--	--	--	6.1 U	--	--
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/kg	--	--	--	24 UJ	--	--
Acetone	ug/kg	--	--	--	6.1 U	--	--
Benzene	ug/kg	--	--	--	6.1 U	--	--
Bromodichloromethane	ug/kg	--	--	--	6.1 U	--	--
Bromoform	ug/kg	--	--	--	6.1 UJ	--	--
Bromomethane (Methyl Bromide)	ug/kg	--	--	--	6.1 U	--	--
Carbon disulfide	ug/kg	--	--	--	6.1 U	--	--
Carbon tetrachloride	ug/kg	--	--	--	6.1 U	--	--
Chlorobenzene	ug/kg	--	--	--	6.1 UJ	--	--
Chloroethane	ug/kg	--	--	--	6.1 U	--	--
Chloroform (Trichloromethane)	ug/kg	--	--	--	6.1 U	--	--
Chloromethane (Methyl Chloride)	ug/kg	--	--	--	6.1 U	--	--
cis-1,2-Dichloroethene	ug/kg	--	--	--	6.1 U	--	--
cis-1,3-Dichloropropene	ug/kg	--	--	--	6.1 U	--	--
Cyclohexane	ug/kg	--	--	--	6.1 U	--	--
Dibromochloromethane	ug/kg	--	--	--	6.1 U	--	--
Dichlorodifluoromethane (CFC-12)	ug/kg	--	--	--	6.1 U	--	--
Ethylbenzene	ug/kg	--	--	--	6.1 U	--	--
Isopropylbenzene	ug/kg	--	--	--	6.1 U	--	--
Methyl acetate	ug/kg	--	--	--	6.1 U	--	--
Methyl cyclohexane	ug/kg	--	--	--	6.1 U	--	--
Methyl Tert Butyl Ether	ug/kg	--	--	--	11	--	--
Methylene chloride	ug/kg	--	--	--	6.1 U	--	--
Styrene	ug/kg	--	--	--	6.1 U	--	--
Tetrachloroethene	ug/kg	--	--	--	6.1 U	--	--
Toluene	ug/kg	--	--	--			

TABLE 3A
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	NE Harrison St WH	S Harrison St WH	S Harrison St WH	SB-18-08	Soil Mound	Soil Mound
	Sample Name:	SS-37191-050708-CMB-021	SS-37191-050708-CMB-022	SS-37191-050708-CMB-023	SB-37191-050908-JP-001	SS-37191-050708-CMB-018	SS-37191-050708-CMB-019
	Sample Date:	5/7/2008	5/7/2008	5/7/2008	5/9/2008	5/7/2008	5/7/2008
	Depth:	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft	0 - 2 ft	0 - 0.17 ft	0.15 - 0.33 ft
	Sample Type:	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)	(Orig.)
	Units						
trans-1,2-Dichloroethene	ug/kg	--	--	--	6.1 U	--	--
trans-1,3-Dichloropropene	ug/kg	--	--	--	6.1 U	--	--
Trichloroethene	ug/kg	--	--	--	6.1 U	--	--
Trichlorofluoromethane (CFC-11)	ug/kg	--	--	--	6.1 U	--	--
VOAs							
Trifluorotrichloroethane (Freon 113)	ug/kg	--	--	--	6.1 U	--	--
Vinyl chloride	ug/kg	--	--	--	6.1 U	--	--
Xylene (total)	ug/kg	--	--	--	18 U	--	--
Wet							
Cyanide (total)	mg/kg	--	--	--	0.95	--	--
Total Solids	%	87.2	92.3	91.1	82.1	83.7	84.1

Notes:

J	Estimated.
PCBs	Polychlorinated Biphenyls.
SVOAs	Semi-Volatile Organic Analytes
U	Not detected.
VOAs	Volatile Organic Analytes

TABLE 3B
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	MW-4	MW-4	MW-5	MW-6	MW-8	MW-9
	Sample Name:	WG-37191-052808-003	WG-37191-052808-004	WG-37191-052808-008	WG-37191-052808-002	WG-37191-052808-005	WG-37191-052808-001
	Sample Date:	5/28/2008	5/28/2008	5/28/2008	5/28/2008	5/28/2008	5/28/2008
	Sample Type:	(Orig.)	Duplicate	(Orig.)	(Orig.)	(Orig.)	(Orig.)
	Units						
Fparam							
Conductivity	mS/cm	54.4	--	1.7	31.2	0.887	1.47
Dissolved Oxygen	mg/L	4.32	--	2.7	4.5	0.54	0.17
Oxidation reduction potential	millivolts	8	--	195	22	45	56
pH	pH units	6.48	--	6.57	6.43	6.96	6.34
Temperature, Field	Deg C	--	--	14	--	14	13.2
Turbidity	ntu	218	--	61.3	1.4	0	8.2
Herbicides							
2,4,5-T	ug/L	0.95 U	0.95 U	--	--	--	0.94 U
2,4,5-TP (Silvex)	ug/L	0.95 U	0.95 U	--	--	--	0.94 U
2,4-DB	ug/L	3.8 U	3.8 U	--	--	--	3.8 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	3.8 U	3.8 U	--	--	--	3.8 U
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	ug/L	380 UJ	380 UJ	--	--	--	380 UJ
Dalapon	ug/L	4.8 U	4.8 U	--	--	--	4.7 U
Dicamba	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
Dichlorprop	ug/L	3.8 U	3.8 U	--	--	--	3.8 U
Dinoseb	ug/L	0.86 U	0.86 U	--	--	--	0.85 U
Mecoprop (MCPP)	ug/L	380 UJ	380 UJ	--	--	--	380 UJ
Metals							
Aluminum	ug/L	116 J	102 J	--	--	--	200 U
Aluminum (Dissolved)	ug/L	200 U	200 U	--	--	--	200 U
Antimony	ug/L	10.0 U	10.0 U	--	--	--	10.0 U
Antimony (Dissolved)	ug/L	10.0 U	10.0 U	--	--	--	10.0 U
Arsenic	ug/L	10.0 U	10.0 U	--	--	--	10.0 U
Arsenic (Dissolved)	ug/L	10.0 U	10.0 U	--	--	--	10.0 U
Barium	ug/L	39.5 J	38.2 J	--	--	--	29.1 J
Barium (Dissolved)	ug/L	34.5 J	33.4 J	--	--	--	28.3 J
Beryllium	ug/L	4.0 U	4.0 U	--	--	--	4.0 U
Beryllium (Dissolved)	ug/L	4.0 U	4.0 U	--	--	--	4.0 U
Cadmium	ug/L	5.0 U	5.0 U	--	--	--	5.0 U
Cadmium (Dissolved)	ug/L	5.0 U	5.0 U	--	--	--	5.0 U
Calcium	ug/L	136000	140000	--	--	--	217000
Calcium (Dissolved)	ug/L	134000	133000	--	--	--	224000
Chromium Total	ug/L	5.0 U	5.0 U	--	--	--	5.0 U
Chromium Total (Dissolved)	ug/L	5.0 U	5.0 U	--	--	--	5.0 U
Cobalt	ug/L	1.1 J	0.93 J	--	--	--	3.4 J
Cobalt (Dissolved)	ug/L	1.2 J	0.87 J	--	--	--	3.2 J
Copper	ug/L	25.0 U	25.0 U	--	--	--	25.0 U
Copper (Dissolved)	ug/L	25.0 U	25.0 U	--	--	--	25.0 U
Iron	ug/L	653 J	504 J	--	--	--	1620 J

TABLE 3B
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	MW-4	MW-4	MW-5	MW-6	MW-8	MW-9
	Sample Name:	WG-37191-052808-003	WG-37191-052808-004	WG-37191-052808-008	WG-37191-052808-002	WG-37191-052808-005	WG-37191-052808-001
	Sample Date:	5/28/2008	5/28/2008	5/28/2008	5/28/2008	5/28/2008	5/28/2008
	Sample Type:	(Orig.)	Duplicate	(Orig.)	(Orig.)	(Orig.)	(Orig.)
	Units						
Metals							
Iron (Dissolved)	ug/L	218	207	--	--	--	620
Lead	ug/L	2.7 J	2.8 J	3.2	3.0 U	3.0 U	3.0 U
Lead (Dissolved)	ug/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Magnesium	ug/L	37400	38100	--	--	--	36400
Magnesium (Dissolved)	ug/L	36700	36600	--	--	--	38000
Manganese	ug/L	858	864	--	--	--	317
Manganese (Dissolved)	ug/L	799	786	--	--	--	296
Mercury	ug/L	0.20 U	0.20 U	--	--	--	0.20 U
Mercury (Dissolved)	ug/L	0.20 U	0.20 U	--	--	--	0.20 U
Nickel	ug/L	2.2 J	2.0 J	--	--	--	5.4 J
Nickel (Dissolved)	ug/L	2.1 J	1.9 J	--	--	--	5.6 J
Potassium	ug/L	675 J	711 J	--	--	--	7090
Potassium (Dissolved)	ug/L	689 J	687 J	--	--	--	7150
Selenium	ug/L	5.0 U	5.0 U	--	--	--	5.0 U
Selenium (Dissolved)	ug/L	5.0 U	5.0 U	--	--	--	5.0 U
Silver	ug/L	5.0 U	5.0 U	--	--	--	5.0 U
Silver (Dissolved)	ug/L	5.0 U	5.0 U	--	--	--	5.0 U
Sodium	ug/L	133000	145000	--	--	--	32700
Sodium (Dissolved)	ug/L	138000	144000	--	--	--	34300
Thallium	ug/L	10.0 U	10.0 U	--	--	--	3.7 J
Thallium (Dissolved)	ug/L	10.0 U	10.0 U	--	--	--	10.0 U
Vanadium	ug/L	1.3 J	50.0 U	--	--	--	1.1 J
Vanadium (Dissolved)	ug/L	1.6 J	2.2 J	--	--	--	2.6 J
Zinc	ug/L	20.0 U	20.0 U	--	--	--	20.0 U
Zinc (Dissolved)	ug/L	20.0 U	20.0 U	--	--	--	20.0 U
PCBs							
Aroclor-1016 (PCB-1016)	ug/L	0.38 U	0.38 U	--	--	--	0.38 U
Aroclor-1221 (PCB-1221)	ug/L	0.38 U	0.38 U	--	--	--	0.38 U
Aroclor-1232 (PCB-1232)	ug/L	0.38 U	0.38 U	--	--	--	0.38 U
Aroclor-1242 (PCB-1242)	ug/L	0.38 U	0.38 U	--	--	--	0.38 U
Aroclor-1248 (PCB-1248)	ug/L	0.38 U	0.38 U	--	--	--	0.38 U
Aroclor-1254 (PCB-1254)	ug/L	0.38 U	0.38 U	--	--	--	0.38 U
Aroclor-1260 (PCB-1260)	ug/L	0.38 U	0.38 U	--	--	--	0.38 U
Pesticides							
4,4'-DDD	ug/L	0.047 U	0.048 U	--	--	--	0.047 U
4,4'-DDE	ug/L	0.047 U	0.048 U	--	--	--	0.047 U
4,4'-DDT	ug/L	0.047 U	0.048 U	--	--	--	0.047 U
Aldrin	ug/L	0.047 U	0.048 U	--	--	--	0.047 U
alpha-BHC	ug/L	0.047 U	0.048 U	--	--	--	0.047 U

TABLE 3B
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	MW-4	MW-4	MW-5	MW-6	MW-8	MW-9
	Sample Name:	WG-37191-052808-003	WG-37191-052808-004	WG-37191-052808-008	WG-37191-052808-002	WG-37191-052808-005	WG-37191-052808-001
	Sample Date:	5/28/2008	5/28/2008	5/28/2008	5/28/2008	5/28/2008	5/28/2008
	Sample Type:	(Orig.)	Duplicate	(Orig.)	(Orig.)	(Orig.)	(Orig.)
	Units						
Pesticides							
alpha-Chlordane	ug/L	0.047 U	0.048 U	--	--	--	0.047 U
beta-BHC	ug/L	0.047 U	0.048 U	--	--	--	0.047 U
delta-BHC	ug/L	0.047 U	0.048 U	--	--	--	0.047 U
Dieldrin	ug/L	0.047 U	0.048 U	--	--	--	0.047 U
Endosulfan I	ug/L	0.047 U	0.048 U	--	--	--	0.047 U
Endosulfan II	ug/L	0.047 U	0.048 U	--	--	--	0.047 U
Endosulfan sulfate	ug/L	0.047 U	0.048 U	--	--	--	0.047 U
Endrin	ug/L	0.047 U	0.048 U	--	--	--	0.047 U
Endrin aldehyde	ug/L	0.047 U	0.048 U	--	--	--	0.047 U
Endrin ketone	ug/L	0.047 U	0.048 U	--	--	--	0.047 U
gamma-BHC (Lindane)	ug/L	0.047 U	0.048 U	--	--	--	0.047 U
gamma-Chlordane	ug/L	0.047 U	0.048 U	--	--	--	0.047 U
Heptachlor	ug/L	0.047 U	0.048 U	--	--	--	0.047 U
Heptachlor epoxide	ug/L	0.047 U	0.048 U	--	--	--	0.047 U
Methoxychlor	ug/L	0.094 U	0.095 U	--	--	--	0.094 U
Toxaphene	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
SVOAs							
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
2,4,5-Trichlorophenol	ug/L	9.4 U	9.5 U	--	--	--	9.5 U
2,4,6-Trichlorophenol	ug/L	9.4 U	9.5 U	--	--	--	9.5 U
2,4-Dichlorophenol	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
2,4-Dimethylphenol	ug/L	9.4 U	9.5 U	--	--	--	9.5 U
2,4-Dinitrophenol	ug/L	47 U	48 U	--	--	--	48 U
2,4-Dinitrotoluene	ug/L	9.4 U	9.5 U	--	--	--	9.5 U
2,6-Dinitrotoluene	ug/L	9.4 U	9.5 U	--	--	--	9.5 U
2-Chloronaphthalene	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
2-Chlorophenol	ug/L	9.4 U	9.5 U	--	--	--	9.5 U
2-Methylnaphthalene	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
2-Methylphenol	ug/L	9.4 U	9.5 U	--	--	--	9.5 U
2-Nitroaniline	ug/L	47 U	48 U	--	--	--	48 U
2-Nitrophenol	ug/L	9.4 U	9.5 U	--	--	--	9.5 U
3,3'-Dichlorobenzidine	ug/L	9.4 U	9.5 U	--	--	--	9.5 U
3-Nitroaniline	ug/L	47 U	48 U	--	--	--	48 U
4,6-Dinitro-2-methylphenol	ug/L	47 U	48 U	--	--	--	48 U
4-Bromophenyl phenyl ether	ug/L	9.4 U	9.5 U	--	--	--	9.5 U
4-Chloro-3-methylphenol	ug/L	9.4 U	9.5 U	--	--	--	9.5 U
4-Chloroaniline	ug/L	9.4 U	9.5 U	--	--	--	9.5 U
4-Chlorophenyl phenyl ether	ug/L	9.4 U	9.5 U	--	--	--	9.5 U
4-Methylphenol	ug/L	9.4 U	9.5 U	--	--	--	9.5 U
4-Nitroaniline	ug/L	47 U	48 U	--	--	--	48 U

TABLE 3B
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	*MW-4*	*MW-4*	*MW-5*	*MW-6*	*MW-8*	*MW-9*
	Sample Name:	*WG-37191-052808-003*	*WG-37191-052808-004*	*WG-37191-052808-008*	*WG-37191-052808-002*	*WG-37191-052808-005*	*WG-37191-052808-001*
	Sample Date:	*5/28/2008*	*5/28/2008*	*5/28/2008*	*5/28/2008*	*5/28/2008*	*5/28/2008*
	Sample Type:	*(Orig.)*	*Duplicate*	*(Orig.)*	*(Orig.)*	*(Orig.)*	*(Orig.)*
	Units						
SVOAs							
4-Nitrophenol	ug/L	47 U	48 U	--	--	--	48 U
Acenaphthene	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
Acenaphthylene	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
Acetophenone	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
Anthracene	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
Atrazine	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
Benzaldehyde	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
Benzo(a)anthracene	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
Benzo(a)pyrene	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
Benzo(b)fluoranthene	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
Benzo(g,h,i)perylene	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
Benzo(k)fluoranthene	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
Biphenyl	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
bis(2-Chloroethoxy)methane	ug/L	9.4 U	9.5 U	--	--	--	9.5 U
bis(2-Chloroethyl)ether	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
bis(2-Ethylhexyl)phthalate	ug/L	9.4 U	9.5 U	--	--	--	9.5 U
Butyl benzylphthalate	ug/L	9.4 U	9.5 U	--	--	--	9.5 U
Caprolactam	ug/L	5.6 U	5.7 U	--	--	--	5.7 U
Carbazole	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
Chrysene	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
Dibenz(a,h)anthracene	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
Dibenzofuran	ug/L	9.4 U	9.5 U	--	--	--	9.5 U
Diethyl phthalate	ug/L	9.4 U	9.5 U	--	--	--	9.5 U
Dimethyl phthalate	ug/L	9.4 U	9.5 U	--	--	--	9.5 U
Di-n-butylphthalate	ug/L	9.4 U	9.5 U	--	--	--	9.5 U
Di-n-octyl phthalate	ug/L	9.4 U	9.5 U	--	--	--	9.5 U
Fluoranthene	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
Fluorene	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
Hexachlorobenzene	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
Hexachlorobutadiene	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
Hexachlorocyclopentadiene	ug/L	9.4 U	9.5 U	--	--	--	9.5 U
Hexachloroethane	ug/L	9.4 U	9.5 U	--	--	--	9.5 U
Indeno(1,2,3-cd)pyrene	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
Isophorone	ug/L	9.4 U	9.5 U	--	--	--	9.5 U
Naphthalene	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
Nitrobenzene	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
N-Nitrosodi-n-propylamine	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
N-Nitrosodiphenylamine	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
Pentachlorophenol	ug/L	9.4 U	9.5 U	--	--	--	9.5 U
Phenanthrene	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
Phenol	ug/L	1.9 U	1.9 U	--	--	--	1.9 U
Pyrene	ug/L	1.9 U	1.9 U	--	--	--	1.9 U

TABLE 3B
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	*MW-4*	*MW-4*	*MW-5*	*MW-6*	*MW-8*	*MW-9*
	Sample Name:	*WG-37191-052808-003*	*WG-37191-052808-004*	*WG-37191-052808-008*	*WG-37191-052808-002*	*WG-37191-052808-005*	*WG-37191-052808-001*
	Sample Date:	*5/28/2008*	*5/28/2008*	*5/28/2008*	*5/28/2008*	*5/28/2008*	*5/28/2008*
	Sample Type:	*(Orig.)*	*Duplicate*	*(Orig.)*	*(Orig.)*	*(Orig.)*	*(Orig.)*
	Units						
VOAs							
1,1,1-Trichloroethane	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
1,1-Dichloroethane	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
1,1-Dichloroethene	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	ug/L	71 U	71 U	12000 U	15 J	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
1,2-Dichlorobenzene	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
1,2-Dichloroethane	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
1,2-Dichloropropane	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
1,3-Dichlorobenzene	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
1,4-Dichlorobenzene	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
2-Butanone (Methyl Ethyl Ketone)	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
2-Hexanone	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
Acetone	ug/L	290 U	290 U	50000 U	240 U	20 U	20 U
Benzene	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
Bromodichloromethane	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
Bromoform	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
Bromomethane (Methyl Bromide)	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 UJ
Carbon disulfide	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
Chlorobenzene	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
Chloroethane	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 UJ
Chloroform (Trichloromethane)	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
Chloromethane (Methyl Chloride)	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	1200	1300	150000	1600	5.0 U	5.0 U
cis-1,3-Dichloropropene	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
Cyclohexane	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
Ethylbenzene	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
Methyl acetate	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
Methyl cyclohexane	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
Methyl Tert Butyl Ether	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
Methylene chloride	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
Styrene	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
Tetrachloroethene	ug/L	71 U	71 U	12000 U	13 J	5.0 U	5.0 U
Toluene	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U

TABLE 3B
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	*MW-4*	*MW-4*	*MW-5*	*MW-6*	*MW-8*	*MW-9*
	Sample Name:	*WG-37191-052808-003*	*WG-37191-052808-004*	*WG-37191-052808-008*	*WG-37191-052808-002*	*WG-37191-052808-005*	*WG-37191-052808-001*
	Sample Date:	*5/28/2008*	*5/28/2008*	*5/28/2008*	*5/28/2008*	*5/28/2008*	*5/28/2008*
	Sample Type:	*(Orig.)*	*Duplicate*	*(Orig.)*	*(Orig.)*	*(Orig.)*	*(Orig.)*
	Units						
VOAs							
trans-1,2-Dichloroethene	ug/L	27 J	29 J	12000 U	11 J	5.0 U	5.0 U
trans-1,3-Dichloropropene	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
Trichloroethene	ug/L	2200	2200	310000	630	5.0 U	5.0 U
Trichlorofluoromethane (CFC-11)	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	71 U	71 U	12000 U	59 U	5.0 U	5.0 U
Vinyl chloride	ug/L	17 J	71 U	12000 U	24 J	5.0 U	5.0 U
Xylene (total)	ug/L	210 U	210 U	38000 U	180 U	15 U	15 U
Wet							
Cyanide (total)	ug/L	3.4 J	2.9 J	--	--	--	2.6 J

Notes:

J	Estimated.
PCBs	Polychlorinated Biphenyls.
SVOAs	Semi-Volatile Organic Analytes
U	Not detected.
UJ	Not detected, estimated reporting limit.
VOAs	Volatile Organic Analytes

TABLE 3B
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	*MW-12*	*MW-12*	*MW-17*	*TRIP BLANK*
	Sample Name:	*WG-37191-052808-006*	*WG-37191-052808-007*	*WG-37191-052808-009*	*TB-37191-052808*
	Sample Date:	*5/28/2008*	*5/28/2008*	*5/28/2008*	*5/28/2008*
	Sample Type:	*(Orig.)*	*Duplicate*	*(Orig.)*	*(Orig.)*
	Units				
Fparam					
Conductivity	mS/cm	99.9 >	--	1.84	--
Dissolved Oxygen	mg/L	3.24	--	3.22	--
Oxidation reduction potential	millivolts	94	--	229	--
pH	pH units	6.43	--	6.7	--
Temperature, Field	Deg C	--	--	13	--
Turbidity	ntu	221	--	1.8	--
Herbicides					
2,4,5-T	ug/L	--	--	--	--
2,4,5-TP (Silvex)	ug/L	--	--	--	--
2,4-DB	ug/L	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	--	--	--	--
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	ug/L	--	--	--	--
Dalapon	ug/L	--	--	--	--
Dicamba	ug/L	--	--	--	--
Dichlorprop	ug/L	--	--	--	--
Dinoseb	ug/L	--	--	--	--
Mecoprop (MCPP)	ug/L	--	--	--	--
Metals					
Aluminum	ug/L	--	--	--	--
Aluminum (Dissolved)	ug/L	--	--	--	--
Antimony	ug/L	--	--	--	--
Antimony (Dissolved)	ug/L	--	--	--	--
Arsenic	ug/L	--	--	--	--
Arsenic (Dissolved)	ug/L	--	--	--	--
Barium	ug/L	--	--	--	--
Barium (Dissolved)	ug/L	--	--	--	--
Beryllium	ug/L	--	--	--	--
Beryllium (Dissolved)	ug/L	--	--	--	--
Cadmium	ug/L	--	--	--	--
Cadmium (Dissolved)	ug/L	--	--	--	--
Calcium	ug/L	--	--	--	--
Calcium (Dissolved)	ug/L	--	--	--	--
Chromium Total	ug/L	--	--	--	--
Chromium Total (Dissolved)	ug/L	--	--	--	--
Cobalt	ug/L	--	--	--	--
Cobalt (Dissolved)	ug/L	--	--	--	--
Copper	ug/L	--	--	--	--
Copper (Dissolved)	ug/L	--	--	--	--
Iron	ug/L	--	--	--	--

TABLE 3B
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	*MW-12*	*MW-12*	*MW-17*	*TRIP BLANK*
	Sample Name:	*WG-37191-052808-006*	*WG-37191-052808-007*	*WG-37191-052808-009*	*TB-37191-052808*
	Sample Date:	*5/28/2008*	*5/28/2008*	*5/28/2008*	*5/28/2008*
	Sample Type:	*(Orig.)*	*Duplicate*	*(Orig.)*	*(Orig.)*
	Units				
Metals					
Iron (Dissolved)	ug/L	--	--	--	--
Lead	ug/L	3.0 U	3.0 U	3.0 U	--
Lead (Dissolved)	ug/L	3.0 U	3.0 U	3.0 U	--
Magnesium	ug/L	--	--	--	--
Magnesium (Dissolved)	ug/L	--	--	--	--
Manganese	ug/L	--	--	--	--
Manganese (Dissolved)	ug/L	--	--	--	--
Mercury	ug/L	--	--	--	--
Mercury (Dissolved)	ug/L	--	--	--	--
Nickel	ug/L	--	--	--	--
Nickel (Dissolved)	ug/L	--	--	--	--
Potassium	ug/L	--	--	--	--
Potassium (Dissolved)	ug/L	--	--	--	--
Selenium	ug/L	--	--	--	--
Selenium (Dissolved)	ug/L	--	--	--	--
Silver	ug/L	--	--	--	--
Silver (Dissolved)	ug/L	--	--	--	--
Sodium	ug/L	--	--	--	--
Sodium (Dissolved)	ug/L	--	--	--	--
Thallium	ug/L	--	--	--	--
Thallium (Dissolved)	ug/L	--	--	--	--
Vanadium	ug/L	--	--	--	--
Vanadium (Dissolved)	ug/L	--	--	--	--
Zinc	ug/L	--	--	--	--
Zinc (Dissolved)	ug/L	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	ug/L	--	--	--	--
Aroclor-1221 (PCB-1221)	ug/L	--	--	--	--
Aroclor-1232 (PCB-1232)	ug/L	--	--	--	--
Aroclor-1242 (PCB-1242)	ug/L	--	--	--	--
Aroclor-1248 (PCB-1248)	ug/L	--	--	--	--
Aroclor-1254 (PCB-1254)	ug/L	--	--	--	--
Aroclor-1260 (PCB-1260)	ug/L	--	--	--	--
Pesticides					
4,4'-DDD	ug/L	--	--	--	--
4,4'-DDE	ug/L	--	--	--	--
4,4'-DDT	ug/L	--	--	--	--
Aldrin	ug/L	--	--	--	--
alpha-BHC	ug/L	--	--	--	--

TABLE 3B
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	*MW-12*	*MW-12*	*MW-17*	*TRIP BLANK*
	Sample Name:	*WG-37191-052808-006*	*WG-37191-052808-007*	*WG-37191-052808-009*	*TB-37191-052808*
	Sample Date:	*5/28/2008*	*5/28/2008*	*5/28/2008*	*5/28/2008*
	Sample Type:	*(Orig.)*	*Duplicate*	*(Orig.)*	*(Orig.)*
	Units				
Pesticides					
alpha-Chlordane	ug/L	--	--	--	--
beta-BHC	ug/L	--	--	--	--
delta-BHC	ug/L	--	--	--	--
Dieldrin	ug/L	--	--	--	--
Endosulfan I	ug/L	--	--	--	--
Endosulfan II	ug/L	--	--	--	--
Endosulfan sulfate	ug/L	--	--	--	--
Endrin	ug/L	--	--	--	--
Endrin aldehyde	ug/L	--	--	--	--
Endrin ketone	ug/L	--	--	--	--
gamma-BHC (Lindane)	ug/L	--	--	--	--
gamma-Chlordane	ug/L	--	--	--	--
Heptachlor	ug/L	--	--	--	--
Heptachlor epoxide	ug/L	--	--	--	--
Methoxychlor	ug/L	--	--	--	--
Toxaphene	ug/L	--	--	--	--
SVOAs					
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/L	--	--	--	--
2,4,5-Trichlorophenol	ug/L	--	--	--	--
2,4,6-Trichlorophenol	ug/L	--	--	--	--
2,4-Dichlorophenol	ug/L	--	--	--	--
2,4-Dimethylphenol	ug/L	--	--	--	--
2,4-Dinitrophenol	ug/L	--	--	--	--
2,4-Dinitrotoluene	ug/L	--	--	--	--
2,6-Dinitrotoluene	ug/L	--	--	--	--
2-Chloronaphthalene	ug/L	--	--	--	--
2-Chlorophenol	ug/L	--	--	--	--
2-Methylnaphthalene	ug/L	--	--	--	--
2-Methylphenol	ug/L	--	--	--	--
2-Nitroaniline	ug/L	--	--	--	--
2-Nitrophenol	ug/L	--	--	--	--
3,3'-Dichlorobenzidine	ug/L	--	--	--	--
3-Nitroaniline	ug/L	--	--	--	--
4,6-Dinitro-2-methylphenol	ug/L	--	--	--	--
4-Bromophenyl phenyl ether	ug/L	--	--	--	--
4-Chloro-3-methylphenol	ug/L	--	--	--	--
4-Chloroaniline	ug/L	--	--	--	--
4-Chlorophenyl phenyl ether	ug/L	--	--	--	--
4-Methylphenol	ug/L	--	--	--	--
4-Nitroaniline	ug/L	--	--	--	--

TABLE 3B
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	*MW-12*	*MW-12*	*MW-17*	*TRIP BLANK*
	Sample Name:	*WG-37191-052808-006*	*WG-37191-052808-007*	*WG-37191-052808-009*	*TB-37191-052808*
	Sample Date:	*5/28/2008*	*5/28/2008*	*5/28/2008*	*5/28/2008*
	Sample Type:	*(Orig.)*	*Duplicate*	*(Orig.)*	*(Orig.)*
	Units				
SVOAs					
4-Nitrophenol	ug/L	--	--	--	--
Acenaphthene	ug/L	--	--	--	--
Acenaphthylene	ug/L	--	--	--	--
Acetophenone	ug/L	--	--	--	--
Anthracene	ug/L	--	--	--	--
Atrazine	ug/L	--	--	--	--
Benzaldehyde	ug/L	--	--	--	--
Benzo(a)anthracene	ug/L	--	--	--	--
Benzo(a)pyrene	ug/L	--	--	--	--
Benzo(b)fluoranthene	ug/L	--	--	--	--
Benzo(g,h,i)perylene	ug/L	--	--	--	--
Benzo(k)fluoranthene	ug/L	--	--	--	--
Biphenyl	ug/L	--	--	--	--
bis(2-Chloroethoxy)methane	ug/L	--	--	--	--
bis(2-Chloroethyl)ether	ug/L	--	--	--	--
bis(2-Ethylhexyl)phthalate	ug/L	--	--	--	--
Butyl benzylphthalate	ug/L	--	--	--	--
Caprolactam	ug/L	--	--	--	--
Carbazole	ug/L	--	--	--	--
Chrysene	ug/L	--	--	--	--
Dibenz(a,h)anthracene	ug/L	--	--	--	--
Dibenzofuran	ug/L	--	--	--	--
Diethyl phthalate	ug/L	--	--	--	--
Dimethyl phthalate	ug/L	--	--	--	--
Di-n-butylphthalate	ug/L	--	--	--	--
Di-n-octyl phthalate	ug/L	--	--	--	--
Fluoranthene	ug/L	--	--	--	--
Fluorene	ug/L	--	--	--	--
Hexachlorobenzene	ug/L	--	--	--	--
Hexachlorobutadiene	ug/L	--	--	--	--
Hexachlorocyclopentadiene	ug/L	--	--	--	--
Hexachloroethane	ug/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	ug/L	--	--	--	--
Isophorone	ug/L	--	--	--	--
Naphthalene	ug/L	--	--	--	--
Nitrobenzene	ug/L	--	--	--	--
N-Nitrosodi-n-propylamine	ug/L	--	--	--	--
N-Nitrosodiphenylamine	ug/L	--	--	--	--
Pentachlorophenol	ug/L	--	--	--	--
Phenanthrene	ug/L	--	--	--	--
Phenol	ug/L	--	--	--	--
Pyrene	ug/L	--	--	--	--

TABLE 3B
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID:	*MW-12*	*MW-12*	*MW-17*	*TRIP BLANK*
	Sample Name:	*WG-37191-052808-006*	*WG-37191-052808-007*	*WG-37191-052808-009*	*TB-37191-052808*
	Sample Date:	*5/28/2008*	*5/28/2008*	*5/28/2008*	*5/28/2008*
	Sample Type:	*(Orig.)*	*Duplicate*	*(Orig.)*	*(Orig.)*
	Units				
VOAs					
1,1,1-Trichloroethane	ug/L	2500 U	2500 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	ug/L	2500 U	2500 U	5.0 U	5.0 U
1,1,2-Trichloroethane	ug/L	2500 U	2500 U	5.0 U	5.0 U
1,1-Dichloroethane	ug/L	2500 U	2500 U	5.0 U	5.0 U
1,1-Dichloroethene	ug/L	2500 U	2500 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	ug/L	2500 U	2500 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2500 U	2500 U	5.0 U	5.0 U
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	2500 U	2500 U	5.0 U	5.0 U
1,2-Dichlorobenzene	ug/L	2500 U	2500 U	5.0 U	5.0 U
1,2-Dichloroethane	ug/L	2500 U	2500 U	5.0 U	5.0 U
1,2-Dichloropropane	ug/L	2500 U	2500 U	5.0 U	5.0 U
1,3-Dichlorobenzene	ug/L	2500 U	2500 U	5.0 U	5.0 U
1,4-Dichlorobenzene	ug/L	2500 U	2500 U	5.0 U	5.0 U
2-Butanone (Methyl Ethyl Ketone)	ug/L	2500 U	2500 U	5.0 U	5.0 U
2-Hexanone	ug/L	2500 U	2500 U	5.0 U	5.0 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	2500 U	2500 U	5.0 U	5.0 U
Acetone	ug/L	10000 U	10000 U	21 U	15 J
Benzene	ug/L	2500 U	2500 U	5.0 U	5.0 U
Bromodichloromethane	ug/L	2500 U	2500 U	5.0 U	0.77 J
Bromoform	ug/L	2500 U	2500 U	5.0 U	5.0 U
Bromomethane (Methyl Bromide)	ug/L	2500 U	2500 U	5.0 U	5.0 U
Carbon disulfide	ug/L	2500 U	2500 U	5.0 U	5.0 U
Carbon tetrachloride	ug/L	2500 U	2500 U	5.0 U	5.0 U
Chlorobenzene	ug/L	2500 U	2500 U	5.0 U	5.0 U
Chloroethane	ug/L	2500 U	2500 U	5.0 U	5.0 U
Chloroform (Trichloromethane)	ug/L	2500 U	2500 U	5.0 U	5.0 U
Chloromethane (Methyl Chloride)	ug/L	2500 U	2500 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	15000	16000	1.8 J	5.0 U
cis-1,3-Dichloropropene	ug/L	2500 U	2500 U	5.0 U	5.0 U
Cyclohexane	ug/L	2500 U	2500 U	5.0 U	5.0 U
Dibromochloromethane	ug/L	2500 U	2500 U	5.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	2500 U	2500 U	5.0 U	5.0 U
Ethylbenzene	ug/L	2500 U	2500 U	5.0 U	5.0 U
Isopropylbenzene	ug/L	2500 U	2500 U	5.0 U	5.0 U
Methyl acetate	ug/L	2500 U	2500 U	5.0 U	5.0 U
Methyl cyclohexane	ug/L	2500 U	2500 U	5.0 U	5.0 U
Methyl Tert Butyl Ether	ug/L	2500 U	2500 U	5.0 U	5.0 U
Methylene chloride	ug/L	2500 U	2500 U	5.0 U	5.0 U
Styrene	ug/L	2500 U	2500 U	5.0 U	5.0 U
Tetrachloroethene	ug/L	640 J	710 J	5.0 U	5.0 U
Toluene	ug/L	2500 U	2500 U	5.0 U	5.0 U

TABLE 3B
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

	Location ID	MW-12	MW-12	MW-17	TRIP BLANK
	Sample Name	WG-37191-052808-006	WG-37191-052808-007	WG-37191-052808-009	TB-37191-052808
	Sample Date	5/28/2008	5/28/2008	5/28/2008	5/28/2008
	Sample Type	(Orig.)	Duplicate	(Orig.)	(Orig.)
	Units				
VOAs					
trans-1,2-Dichloroethene	ug/L	2500 U	2500 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	ug/L	2500 U	2500 U	5.0 U	5.0 U
Trichloroethene	ug/L	81000	88000	5.1	5.0 U
Trichlorofluoromethane (CFC-11)	ug/L	2500 U	2500 U	5.0 U	5.0 U
Trifluorotrichloroethane (Freon 113)	ug/L	2500 U	2500 U	5.0 U	5.0 U
Vinyl chloride	ug/L	760 J	910 J	5.0 U	5.0 U
Xylene (total)	ug/L	7500 U	7500 U	15 U	15 U
Wet					
Cyanide (total)	ug/L	--	--	--	--

Notes:

J	Estimated.
PCBs	Polychlorinated Biphenyls.
SVOAs	Semi-Volatile Organic Analytes
U	Not detected.
UJ	Not detected, estimated reporting limit.
VOAs	Volatile Organic Analytes

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
Volatiles	05/19/08	Bromomethane	37	SB-37191-050808-JP-011	6.1 UJ	µg/Kg
				SB-37191-050908-JP-001	6.1 UJ	µg/Kg
				SB-37191-050908-JP-002	5.8 UJ	µg/Kg
Volatiles	05/19/08	Chloroethane	34	SB-37191-050808-JP-011	6.1 UJ	µg/Kg
				SB-37191-050908-JP-001	6.1 UJ	µg/Kg
				SB-37191-050908-JP-002	5.8 UJ	µg/Kg
Volatiles	05/19/08	Acetone	37	SB-37191-050808-JP-011	6.1 UJ	µg/Kg
				SB-37191-050908-JP-001	6.1 UJ	µg/Kg
				SB-37191-050908-JP-002	5.8 UJ	µg/Kg
Volatiles	06/04/08	Bromomethane	37.5	WG-37191-052808-001	5.0 UJ	µg/L
Volatiles	06/04/08	Chloroethane	51	WG-37191-052808-001	5.0 UJ	µg/L

Notes:
%D Percent Difference.
UJ Not detected, estimated reporting limit.

TABLE 5

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING INITIAL CALIBRATION RESULTS
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

Parameter	*Compound*	*Calibration Date*	*R*	*%RSD*	*Associated Sample ID*	*Qualified Sample Results*	*Units*
Herbicides	2-Methyl-4-chlorophenoxyacetic acid (MCPA)	05/28/08	0.993	-	WG-37191-052808-001	380 UJ	µg/L
					WG-37191-052808-003	380 UJ	µg/L
					WG-37191-052808-004	380 UJ	µg/L
Herbicides	Mecoprop (MCPP)	05/28/08	-	33.4	WG-37191-052808-001	380 UJ	µg/L
					WG-37191-052808-003	380 UJ	µg/L
					WG-37191-052808-004	380 UJ	µg/L

Notes:
R Correlation Coefficient.
%RSD Percent Relative Standard Deviation.
UJ Not detected, estimated reporting limit.

TABLE 6

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE LABORATORY BLANKS
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*	*Units*
General Chemistry	05/15/08	Cyanide	0.15	SS-37191-050708-CMB-005	0.7 U	mg/Kg
				SS-37191-050708-CMB-006	0.7 U	mg/Kg
Metals	05/29/08	Antimony	0.13	SS-37191-050708-CMB-005	1.4 U	mg/Kg
				SS-37191-050708-CMB-006	1.4 U	mg/Kg
Metals	05/29/08	Thallium	0.44	SS-37191-050708-CMB-005	1.4 U	mg/Kg
				SS-37191-050708-CMB-006	1.4 U	mg/Kg
Metals	05/29/08	Antimony	0.2	SB-37191-050808-JP-011	1.2 U	mg/Kg
				SB-37191-050908-JP-001	1.2 U	mg/Kg
				SB-37191-050908-JP-002	1.2 U	mg/Kg
Metals	05/29/08	Beryllium	0.09	SB-37191-050808-JP-011	0.49 U	mg/Kg
Metals	05/29/08	Silver	0.04	SB-37191-050808-JP-011	0.61 U	mg/Kg
Volatiles	06/04/08	Acetone	13	WG-37191-052808-001	20 U	µg/L
Volatiles	06/04/08	Methylene chloride	1.3	WG-37191-052808-001	5.0 U	µg/L
Volatiles	06/0[illegible]8	Acetone	19	WG-37191-052808-002	240 U	µg/L
				WG-37191-052808-003	290 U	µg/L
				WG-37191-052808-004	290 U	µg/L
				WG-37191-052808-005	20 U	µg/L
				WG-37191-052808-006	10000 U	µg/L
				WG-37191-052808-007	10000 U	µg/L
				WG-37191-052808-008	50000 U	µg/L
				WG-37191-052808-009	21 U	µg/L
Metals	6/6/2008	Aluminum	15.8	WG-37191-052808-001	200 U	µg/L

TABLE 6

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE LABORATORY BLANKS
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*	*Units*
Metals	6/6/2008	Aluminum (Dissolved)	16	WG-37191-052808-001	200 U	µg/L
				WG-37191-052808-003	200 U	µg/L
				WG-37191-052808-004	200 U	µg/L
Metals	6/6/2008	Copper	0.8	WG-37191-052808-001	25.0 U	µg/L
				WG-37191-052808-003	25.0 U	µg/L
				WG-37191-052808-004	25.0 U	µg/L
Metals	6/6/2008	Copper (Dissolved)	0.8	WG-37191-052808-001	25.0 U	µg/L
Metals	6/6/2008	Thallium (Dissolved)	6.2	WG-37191-052808-001	10.0 U	µg/L
Metals	6/6/2008	Zinc	4.5	WG-37191-052808-001	20.0 U	µg/L
				WG-37191-052808-003	20.0 U	µg/L
				WG-37191-052808-004	20.0 U	µg/L
Metals	6/6/2008	Zinc (Dissolved)	1.8	WG-37191-052808-001	20.0 U	µg/L
				WG-37191-052808-003	20.0 U	µg/L
				WG-37191-052808-004	20.0 U	µg/L

Notes:
U Not Detected.

TABLE 7

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

Parameter	*Associated Sample ID*	*Analyte*	*MS Recovery (percent)*	*MSD Recovery (percent)*	*RPD*	*Control Limits*		*Qualified Sample Result*	*Units*
						Recovery (percent)	*RPD (percent)*		
Metals	SS-37191-050708-CMB-005	Chromium	2.2	7.3	3.5	75-125	0-20	16.9 J	mg/Kg
	SS-37191-050708-CMB-006							16.4 J	mg/Kg
Metals	SS-37191-050708-CMB-005	Copper	104	50	23	75-125	0-20	28.8 J	mg/Kg
	SS-37191-050708-CMB-006							27.7 J	mg/Kg
Metals	SS-37191-050708-CMB-005	Zinc	83	22	19	75-125	0-20	152 J	mg/Kg
	SS-37191-050708-CMB-006							146 J	mg/Kg
Metals	SS-37191-050808-CMB-001	Lead	55	132	45	75-125	0-20	66.9 J	mg/Kg
	SS-37191-050808-CMB-002							30.6 J	mg/Kg
	SS-37191-050808-CMB-003							46.3 J	mg/Kg
	SS-37191-050808-CMB-004							92.1 J	mg/Kg
	SS-37191-050808-CMB-005							348 J	mg/Kg
	SS-37191-050808-CMB-006							385 J	mg/Kg
	SS-37191-050808-CMB-007							211 J	mg/Kg
	SS-37191-050808-CMB-008							148 J	mg/Kg
	SS-37191-050808-CMB-009							364 J	mg/Kg
	SS-37191-050808-CMB-010							632 J	mg/Kg
	SB-37191-050808-JP-011							48.4 J	mg/Kg
	SB-37191-050908-JP-001							104 J	mg/Kg
	SB-37191-050908-JP-002							87.3 J	mg/Kg
Metals	SB-37191-050808-JP-011	Manganese	239	469	40	75-125	0-20	135 J	mg/Kg
	SB-37191-050908-JP-001							795 J	mg/Kg
	SB-37191-050908-JP-002							3240 J	mg/Kg
Metals	WG-37191-052808-001	Iron	56	66	4.2	75-125	0-20	1620 J	µg/L
	WG-37191-052808-003							653 J	µg/L
	WG-37191-052808-004							504 J	µg/L

Notes:

J Estimated.
MS Matrix Spike.
MSD Matrix Spike Duplicate.
RPD Relative Percent Difference.

TABLE 8

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING ICSA/ICSAB RESULTS
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

Parameter	*Analyte*	*ICSA Result ug/L*	*Reporting Limit (+/- RL) ug/L*	*Sample ID*	*Qualified Sample Result*	*Units*
Metals	Cadmium	6	5	SS-37191-050708-CMB-005	1.2 J	mg/Kg
				SS-37191-050708-CMB-006	1.1 J	mg/Kg
				SB-37191-050808-JP-011	0.54 J	mg/Kg
				SB-37191-050908-JP-001	1.1 J	mg/Kg
				SB-37191-050908-JP-002	1.4 J	mg/Kg
Metals	Lead	-5	3	SS-37191-050708-CMB-013	82.9 J	mg/Kg
				SS-37191-050708-CMB-017	59 J	mg/Kg
				SS-37191-050708-CMB-019	2090 J	mg/Kg
				SS-37191-050708-CMB-022	738 J	mg/Kg
				SS-37191-050708-CMB-023	742 J	mg/Kg
				SS-37191-050808-CMB-001	66.9 J	mg/Kg
				SS-37191-050808-CMB-002	30.6 J	mg/Kg
				SS-37191-050808-CMB-003	46.3 J	mg/Kg
				SS-37191-050808-CMB-004	92.1 J	mg/Kg
				SS-37191-050808-CMB-005	348 J	mg/Kg
				SS-37191-050808-CMB-006	385 J	mg/Kg
				SS-37191-050808-CMB-007	211 J	mg/Kg
				SS-37191-050808-CMB-008	148 J	mg/Kg
				SS-37191-050808-CMB-009	364 J	mg/Kg
				SS-37191-050808-CMB-010	632 J	mg/Kg
				SB-37191-050808-JP-011	48.4 J	mg/Kg
				SB-37191-050908-JP-001	104 J	mg/Kg
				SB-37191-050908-JP-002	87.3 J	mg/Kg

Notes:
ICSA Interference Check Standard A.
J Estimated.
RL Reporting Limit.

TABLE 9

QUALIFIED SAMPLES RESULTS DUE TO OUTLYING SERIAL DILUTIONS
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

Sample ID	*Analyte*	*%D*	*Control Limits*	*Associated Samples*	*Qualified Sample Results*	*Units*
SS-37191-050708-CMB-001	Nickel	11.5	0-10	SS-37191-050708-CMB-005	13.5 J	mg/Kg
				SS-37191-050708-CMB-006	12.8 J	mg/Kg
SB-37191-050808-JP-011	Cobalt	12.9	0-10	SB-37191-050808-JP-011	3.8 J	mg/Kg
				SB-37191-050908-JP-001	2.3 J	mg/Kg
				SB-37191-050908-JP-002	2.6 J	mg/Kg

Notes:
%D Percent Difference.
J Estimated.

TABLE 10

QUALIFIED SAMPLE RESULTS DUE TO DIFFERENCES IN DUAL COLUMN RESULTS
SITE INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
MAY 2008

Parameter	*Compound*	*Associated Sample ID*	*%D*	*Qualified Sample Results*	*Units*
Pesticides	gamma-BHC	SB-37191-050808-JP-011	83	2.1 U	µg/Kg
	4,4'-DDD		55	2.1 U	µg/Kg
	gamma-Chlordane		140	2.1 U	µg/Kg
Pesticides	gamma-BHC	SB-37191-050908-JP-001	75	2.1 U	µg/Kg
	Endrin ketone		77	2.1 U	µg/Kg
	4,4'-DDD		370	2.1 U	µg/Kg
	alpha-Chlordane		84	2.1 U	µg/Kg
	gamma-Chlordane		64	2.1 U	µg/Kg
Pesticides	delta-BHC	SB-37191-050908-JP-002	165	2.0 U	µg/Kg
	gamma-BHC		53	17 J	µg/Kg
	Endrin ketone		73	2.0 U	µg/Kg
	4,4'-DDT		76	2.0 U	µg/Kg

Notes:

%D	Percent Difference.
BHC	Benzene Hexachloride.
DDD	Dichlorodiphenyl Dichloroethane.
DDT	Dichlorodiphenyl Trichloroethane.
J	Estimated.
U	Not Detected.

CONESTOGA-ROVERS
& ASSOCIATES

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MEMORANDUM

TO: Chris Barton

REF. NO.: 037191

FROM: Susan Scrocchi/jbh/1 SCS

DATE: February 12, 2008

E-Mail and Hard Copy if Requested

RE: **Analytical Results and QA/QC Review**
Groundwater and Soil Investigation
Former Buffalo China Site
Buffalo, New York
July - August 2007

The following details a quality assessment and validation of the analytical data resulting from the July and August 2007 collection of groundwater and soil samples from the Former Buffalo China Site in Buffalo, New York. The sample summary detailing sample identification, sample location, quality control (QC) samples, and analytical parameters is presented in Table 1. Sample analysis was completed at TestAmerica Laboratories (TA), in Pittsburgh, Pennsylvania, in accordance with the methodologies presented in Table 2. Summaries of the analytical results are presented in Tables 3A and 3B.

The QC criteria used to assess the data were established by the methods and with the following guidance documents:

i) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-99/008, October 1999; and

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Review", USEPA 540/R-94/013, February 1994.

These guidelines are collectively referred to as "Guidelines" in this memorandum.

Sample Quantitation

The laboratory reported detected concentrations of organic compounds and metals below the laboratory's practical quantitation limit (PQL)/report limit (RL) but above the laboratory's method detection limit (MDL). The laboratory flagged these sample concentrations with a "J". These concentrations should be qualified as estimated (J) values unless qualified otherwise in this memorandum.

Sample Preservation and Holding Times

Sample holding time periods and preservation requirements are summarized in the analytical methods. All sample extractions and/or analyses were performed within the specified holding times.

All samples were properly preserved and cooled to 4°C(±2°C) after collection.

Gas Chromatography/Mass Spectrometer (GC/MS) - Tuning and Mass Calibration (Instrument Performance Check) - Volatile Organic Compounds (VOCs) and Semi-Volatile Organic Compounds (SVOCs)

To ensure adequate mass resolution, identification, and to some degree, sensitivity; the performance of each GC/MS instrument used for VOC and SVOC analyses was checked at the beginning of each 12-hour period using bromofluorobenzene (BFB) and decafluorotriphenylphosphine (DFTPP), respectively. The resulting spectra must meet the criteria cited in the "Guidelines" before initiating an analysis sequence.

Instrument performance check data were reviewed. These tuning compounds were analyzed at the required frequency throughout the VOC and SVOC analyses. The results of all instrument performance checks were within the acceptance criteria, indicating acceptable instrument performance.

GC/MS Initial Calibration - VOCs and SVOCs

Initial calibration data are used to demonstrate that each instrument is capable of generating acceptable quantitative data. A five point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each over a specific concentration range.

Initial calibration criteria for organic analyses are evaluated against the following criteria:

i) must meet a minimum mean relative response factor (RRF) of 0.05; and

ii) the percent relative standard deviation (%RSD) values must not exceed 30.0 percent or a minimum coefficient of determination (R^2) of 0.99 if quadratic equation calibration curves are used.

Calibration standards were analyzed at the required frequency and the results met the above criteria for sensitivity. Some SVOC compounds exhibited a high standard deviation, therefore not meeting the linearity criteria. All associated results were qualified as estimated (see Table 4).

GC/MS Continuing Calibration - VOCs and SVOCs

To ensure that each instrument was capable of producing acceptable quantitative data over the analysis period, continuing calibration standards must be analyzed every 12 hours. The following criteria are employed to evaluate the continuing calibration data:

i) must meet a minimum mean RRF of 0.05;

ii) the percent difference (%D) between the mean initial calibration RRF and the continuing calibration RRF must not exceed 25 percent; and

iii) the percent drift between the true value and the continuing calibration value must not exceed 25 percent.

Calibration standards were analyzed at the required frequency and the results met the above criteria for instrument sensitivity and linearity of response for most analytes. Some VOCs and SVOCs exhibited

variability between the initial and continuing response factors. All associated results were qualified as estimated (see Table 5).

GC Initial Calibration - Pesticides, Herbicides, and Polychlorinated Biphenyls (PCBs)

To quantify compounds of interest, calibration of the GC over a specific concentration range must be performed. Initially, five-point calibration curves are analyzed for all the pesticides and herbicides of interest. PCB calibration curves are analyzed for Aroclors 1016 and1260 only. A single point calibration is performed for the remaining Aroclors of interest.

Linearity of the calibration curves are acceptable if percent %RSD values are less than or equal to 20 percent or if the coefficient of determination (R^2) is greater than 0.99. Retention time (RT) windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

Initial calibration standards were analyzed at the required frequencies. All RT and linearity criteria were satisfied.

GC Continuing Calibration - Pesticides, Herbicides and PCBs

To ensure that the calibration of the instrument is valid throughout the sample analysis period, continuing calibration standards are analyzed and evaluated on a regular basis. To evaluate the continued linearity of the calibration, %D values are calculated for each compound in all continuing standards and assessed against an acceptance criterion of 15 percent.

To ensure that compound RTs do not vary over the analysis period, all RTs must fall within the established RT windows.

Continuing calibration standards were analyzed at the required frequency, and all method criteria were met for analyte linearity with the exception of some pesticides and herbicides exhibiting a %D greater than 15. All associated sample results were qualified as estimated (see Table 5).

Initial Calibration - Inorganic Analyses

Initial calibration of the instruments ensures that they are capable of producing satisfactory quantitative data at the beginning of a series of analyses. For trace inductively coupled plasma (ICP) analysis, a calibration blank and at least one standard must be analyzed at each wavelength to establish the analytical curve. Mercury analysis by cold vapor atomic absorption spectroscopy (CVAA) requires the analysis of a calibration blank and a minimum of five standards to establish the calibration curve. The coefficient of variation for calibration curves must exceed 0.995.

Initial calibration is verified with an initial calibration verification (ICV) standard which must recover within 90 to 110 percent for metals by ICP and 80 to 120 percent for mercury by CVAA.

A review of the laboratory data showed that all inorganic initial calibration curves and ICVs were analyzed at the appropriate frequency and were within the acceptance criteria.

Continuing Calibration - Inorganic Analyses

Continuing calibration verification (CCV) standards are analyzed at method specified frequency (one every 10 samples). The CCVs must meet the percent recovery control limits specified above for the ICVs. Criteria for inorganic analyses are the same criteria as used for assessing the initial calibration data.

A review of the laboratory data showed that CCVs were analyzed at the appropriate frequency and the data were within the acceptance criteria.

Method Blank Samples

Method blank samples are prepared from a purified sample matrix and are processed concurrently with investigative samples to assess the presence and the magnitude of sample contamination introduced during sample analysis. Method blank samples are analyzed at a minimum frequency of one per analytical batch and target analytes should be non-detect.

Method blanks were analyzed at the recommended frequency and the results were non-detect for all analytes of interest with the exception of methylene chloride and various metals present at low level concentrations. All associated positive sample results with similar concentrations were qualified as non-detect (see Table 6).

Laboratory Blank Samples - Inorganic Analyses

Metals analyses include the analysis of initial calibration blanks (ICB) and continuing calibration blanks (CCB) to assess the presence and the magnitude of sample contamination introduced during sample analysis. The CCBs are analyzed at a minimum frequency of one every 10 samples and target analytes should be non-detect.

All ICBs and CCBs were non-detect with the exception of beryllium present on September 7, 2007. All associated positive sample results with similar concentrations were qualified as non-detect (see Table 6).

Surrogate Compounds - Organic Analyses

Individual sample performance for organic analyses was monitored by assessing the results of surrogate compound percent recoveries. Surrogate percent recoveries are reviewed against the laboratory developed control limits provided in the analytical report.

All surrogate recoveries met the method criteria, demonstrating acceptable analytical efficiency for these analyses with the exception of high SVOC surrogates for sample GW-37191-082107-RN-007. All associated positive sample results were qualified as estimated (see Table 7) and all non-detect results would not have been impacted by the implied high bias.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)Analyses

To assess the long term accuracy and precision of the analytical methods on various matrices, MS/MSD percent recoveries and relative percent differences (RPD) of the concentrations were determined. The organic MS/MSD percent recovery and RPD control limits are established by the laboratory. The inorganic

control limits are defined by the methods and the "Guidelines", which require recoveries between 75 to 125 percent with RPDs less than 20 percent.

All MS/MSD recoveries were acceptable with the following exceptions:

i) high aluminum and cyanide recoveries were observed. All associated positive results were qualified as estimated and all non-detect results would not have been impacted by the implied high bias;

ii) due to matrix interference, the 4,4'-dichlorodiphenyltrichloroethane (DDT) recoveries could not be calculated. The associated sample result was qualified as estimated; and

iii) high variability was observed between trichloroethene recoveries. The associated sample result was qualified as estimated.

A summary of the qualified dated is presented in Table 8.

Laboratory Control Sample (LCS)

The LCS analysis serves as a monitor of the overall performance in all steps of the sample analysis and are analyzed with each sample batch. The LCS percent recoveries were evaluated against method and laboratory established control limits. Some LCS analyses were performed in duplicate to monitor laboratory precision.

The LCS percent recoveries were all within the laboratory control limits indicating acceptable analytical accuracy and precision (where applicable).

Internal Standard (IS) Summaries - Organic Analyses

To correct for variability in the GC/MS response and sensitivity, IS compounds are added to all samples. All results are calculated as a ratio of the compound and associated IS response. Overall instrument stability and performance for VOC and SVOC analyses were monitored using IS peak area and RT data. The IS peak areas and RTs of the samples are required to meet the following criteria:

i) IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated continuing calibration standard IS area counts; and

ii) the RT of the IS must not vary by more than plus or minus 30 seconds from the associated continuing calibration standard.

A review of the VOC and SVOC internal standard data showed that the IS area counts and RT data were within the acceptance criteria for all VOC and SVOC samples.

ICP ICS Analysis - Inorganic Analyses

To verify that proper inter-element and background correction factors had been established by the laboratory for metals analyses, the ICP ICS are analyzed. The ICSs are evaluated against recovery control limits of 80 to 120 percent.

The ICS analysis results were evaluated for all samples and were within the control limits.

Serial Dilution - Inorganic Analyses

The %D between a serial dilution of a sample for each matrix was monitored to determine physical or chemical interference. A minimum of one sample per 20 investigative samples is analyzed at a five-fold dilution. The serial dilution results must agree within 10 %D of the original results for samples with detected concentrations greater than 50 times the instrument detection limit.

The %D acceptance criteria was met for all metals.

Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound RT and mass spectra (if applicable) were evaluated according to identification criteria established by the methods. The organic compounds reported adhered to the specified identification criteria.

Target Compound Quantitation

The reported quantitation results and detection limits were checked to ensure results reported were accurate. No discrepancies were found between the raw data and the sample results reported by the laboratory.

Field Quality Assurance/Quality Control (QA/QC)

The field QA/QC consisted of five field duplicate sample sets and a trip blank.

Overall precision for the sampling event and laboratory procedures was monitored using the results of the field duplicate sample sets. The RPDs associated with these duplicate samples must be less than 50 percent for water and 100 percent for soil/sediment. If the reported concentration in either the investigative sample or its duplicate is less than five times the RL, the evaluation criteria is one times the RL value for water or two times for soil/sediment.

Most field duplicate results were acceptable indicating good field and analytical precision. Some variability was observed between VOC and metals concentrations. The samples and the associated field duplicate were qualified as estimated to reflect the implied variability (see Table 9).

To monitor potential cross-contamination of VOC during aqueous sample transportation and storage, a trip blank was submitted to the laboratory for VOC analysis with each shipping cooler containing multiple samples.

All trip blank results were non-detect for the compounds of interest.

Dual Column Analysis

Pesticide analyses were performed using dual column analyses. In general, the pesticide results showed good correlation between the two columns. Variability was observed between some of the results (see Table 10). The associated data were qualified as estimated to reflect the implied variability.

System Performance

System performance between various quality control checks was evaluated to monitor for changes that may have caused the degradation of data quality. No technical problems or chromatographic anomalies were observed which would require qualification of the data.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used with the qualifications noted herein.

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
GROUNDWATER AND SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

						Analysis/Parameters									
Sample I.D.	*Location I.D.*	*Collection Date (mm/dd/yy)*	*Collection Time (hr:min)*	*Start Depth (ft bgs)*	*End Depth (ft bgs)*	*TCL VOCs*	*TCL SVOCs*	*Lead*	*TAL Metals + Cn*	*Pesticides*	*Herbicides*	*PCBs*	*Dissolved Metals*	*Diss. Lead*	*Comments*
SO-37191-072507-RN-SB-1	SB-1-07	07/25/07	10:11	2	4	X	X		X	X	X	X			
SO-37191-072507-RN-SB-05	SB-5-07	07/25/07	12:44	4	8	X	X		X	X	X	X			
SO-37191-072507-RN-SB-10	SB-10-07	07/25/07	13:24	3	8	X	X	X							
SO-37191-072507-RN-SB-9	SB-9-07	07/25/07	13:50	3	6	X	X	X							
SO-37191-072507-RN-SB-7	SB-7-07	07/25/07	14:21	3	6	X	X	X							
SO-37191-072507-RN-SB-8	SB-8-07	07/25/07	14:55	3.5	8	X	X		X	X	X	X			
SO-37191-072607-RN-SB-11	SB-11-07	07/26/07	8:53	2	6	X	X	X							
SO-37191-072607-RN-SB-15	SB-15-07	07/26/07	9:33	4	8	X	X	X							
SO-37191-072607-RN-SB-12	SB-12-07	07/26/07	10:11	3.5	6	X	X		X	X	X	X			
SO-37191-072607-RN-SB-13	SB-13-07	07/26/07	11:00	6	8	X	X	X							
SO-37191-072607-RN-SB-16	SB-16-07	07/26/07	12:54	4	8	X	X	X							
SO-37191-072607-RN-SB-14	SB-14-07	07/26/07	13:45	4	8	X	X	X							
SO-37191-072707-RN-SB-2	SB-2-07	07/27/07	11:15	6.5	8	X	X	X							
SO-37191-072707-RN-SB-20	SB-2-07	07/27/07	11:25	6.5	8	X	X	X							Field duplicate of SO-37191-072707-RN-SB-2
SO-37191-072707-RN-SB-3	SB-3-07	07/27/07	12:45	10	13	X	X		X	X	X	X			
SO-37191-072707-RN-SB-4	SB-4-07	07/27/07	14:56	2	4	X	X	X							
SO-37191-072707-RN-SB-17	SB-17-07	07/27/07	16:00	6	10	X	X	X							
SO-37191-072707-RN-SB-27	SB-17-07	07/27/07	15:35	6	10	X	X	X							Field duplicate of SO-37191-072707-RN-SB-17
SO-37191-073007-CB-SB6	SB-6-07	07/30/07	10:15	6	10.4	X	X	X							
SO-37191-073007-CB-SB19	SB-6-07	07/30/07	10:25	6	10.4	X	X	X							Field duplicate of SO-37191-073007-CB-SB6
SO-37191-073007-CB-SB-18	SB-18-07	07/30/07	11:22	4	7.2	X	X		X	X	X	X			
WG-37191-082107-RN-001	MW-4	08/21/07	13:30	-	-	X	X		X	X	X	X	X		
WG-37191-082107-RN-002	MW-4	08/21/07	13:50	-	-	X	X		X	X	X	X	X		Field duplicate of WG-37191-082107-RN-001
WG-37191-082107-RN-003	MW-5	08/21/07	14:20	-	-	X		X						X	
WG-37191-082107-RN-004	MW-12	08/21/07	15:10	-	-	X		X						X	
WG-37191-082107-RN-005	MW-12	08/21/07	15:45	-	-	X		X						X	Field duplicate of WG-37191-082107-RN-004

TABLE 1

SAMPLE COLLECTION AND ANALYSIS SUMMARY
GROUNDWATER AND SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

						Analysis/Parameters									
Sample I.D.	*Location I.D.*	*Collection Date (mm/dd/yy)*	*Collection Time (hr:min)*	*Start Depth (ft bgs)*	*End Depth (ft bgs)*	*TCL VOCs*	*TCL SVOCs*	*Lead*	*TAL Metals + Cn*	*Pesticides*	*Herbicides*	*PCBs*	*Dissolved Metals*	*Diss. Lead*	*Comments*
WG-37191-082107-RN-006	MW-8	08/21/07	16:20	-	-	X		X						X	
WG-37191-082107-RN-007	MW-9	08/21/07	17:30	-	-	X	X		X	X	X	X	X		
TB-37191-082107-RN-001	TRIP BLANK	-	-	-	-	X									

Notes:

-	Not analyzed.
Cn	Cyanide.
PCBs	Polychlorinated Biphenyls.
SVOCs	Semi-Volatile Organic Compounds.
TAL	Target Analyte List.
TCL	Target Compound List.
VOCs	Volatile Organic Compounds.

TABLE 2

SUMMARY OF ANALYTICAL METHODS
GROUNDWATER AND SOIL SAMPLING
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameter	*Method* [1]
Soil	
TCL VOCs	SW-846 8260B
TCL SVOCs	SW-846 8270C
TCL Pesticides	SW-846 8081
Herbicides	SW-846 8151
Polychlorinated Biphenyls	SW-846 8082
TAL Metals	SW-846 6010/7000 Series
Cyanide	SW-846 9012
Groundwater	
TCL VOCs	SW-846 8260B
TCL SVOCs	SW-846 8270C
TCL Pesticides	SW-846 8081
Herbicides	SW-846 8151
Polychlorinated Biphenyls	SW-846 8082
TAL Metals (total and dissolved)	SW-846 6010/7000 Series
Cyanide (total and dissolved)	SW-846 9012

Notes:

[1] "Test Methods for Solid Waste/Physical Chemical Methods", SW-846, 3rd Edition, September 1986 (with all subsequent revisions).

SVOCs Semi-Volatile Organic Compounds.
TAL Target Analyte List.
TCL Target Compound List.
VOCs Volatile Organic Compounds.

TABLE 3A

ANALYTICAL RESULTS SUMMARY
GROUNDWATER INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

			Location ID:	*MW-5/BH-5*	*MW-8/BH-15*	*MW-9/BH-1*	*MW-12*
			Sample Name:	*WG-37191-082107-RN-003*	*WG-37191-082107-RN-006*	*WG-37191-082107-RN-007*	*WG-37191-082107-RN-004*
			Sample Date:	*8/21/2007*	*8/21/2007*	*8/21/2007*	*8/21/2007*
		New York State Water Quality					
Parameters	*Units*	*Standards*	*Guidance Values*				
Volatile Organic Compounds							
1,1,1-Trichloroethane	ug/L	5	NC	12000 U	5.0 U	5.0 U	15000 U
1,1,2,2-Tetrachloroethane	ug/L	5	NC	12000 U	5.0 U	5.0 U	15000 U
1,1,2-Trichloroethane	ug/L	1	NC	**9800 J**	5.0 U	5.0 U	15000 U
1,1-Dichloroethane	ug/L	5	NC	12000 U	5.0 U	5.0 U	15000 U
1,1-Dichloroethene	ug/L	5	NC	12000 U	5.0 U	5.0 U	15000 U
1,2,4-Trichlorobenzene	ug/L	5	NC	12000 U	5.0 U	5.0 U	15000 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.04	NC	12000 U	5.0 U	5.0 U	15000 U
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	0.0006	NC	12000 U	5.0 U	5.0 U	15000 U
1,2-Dichlorobenzene	ug/L	3	NC	12000 U	5.0 U	5.0 U	15000 U
1,2-Dichloroethane	ug/L	0.6	NC	12000 U	5.0 U	5.0 U	15000 U
1,2-Dichloropropane	ug/L	1	NC	12000 U	5.0 U	5.0 U	15000 U
1,3-Dichlorobenzene	ug/L	3	NC	12000 U	5.0 U	5.0 U	15000 U
1,4-Dichlorobenzene	ug/L	3	NC	12000 U	5.0 U	5.0 U	15000 U
2-Butanone (Methyl Ethyl Ketone)	ug/L	50	50	12000 U	5.0 U	5.0 U	15000 U
2-Hexanone	ug/L	50	50	12000 U	5.0 U	5.0 U	15000 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	NC	NC	12000 U	5.0 U	5.0 U	15000 U
Acetone	ug/L	NC	50	50000 U	20 UJ	20 UJ	60000 UJ
Benzene	ug/L	1	NC	12000 U	5.0 U	5.0 U	15000 U
Bromodichloromethane	ug/L	50	50	12000 U	5.0 U	5.0 U	15000 U
Bromoform	ug/L	50	50	12000 U	5.0 U	5.0 U	15000 U
Bromomethane (Methyl Bromide)	ug/L	5	NC	12000 U	5.0 U	5.0 U	15000 U
Carbon disulfide	ug/L	NC	60	12000 U	5.0 U	5.0 U	15000 U
Carbon tetrachloride	ug/L	5	NC	12000 U	5.0 U	5.0 U	15000 U
Chlorobenzene	ug/L	5	NC	12000 U	5.0 U	5.0 U	15000 U
Chloroethane	ug/L	5	NC	12000 UJ	5.0 U	5.0 U	15000 U
Chloroform (Trichloromethane)	ug/L	7	NC	12000 U	5.0 U	5.0 U	15000 U
Chloromethane (Methyl Chloride)	ug/L	5	NC	12000 U	5.0 U	5.0 U	15000 U
cis-1,2-Dichloroethene	ug/L	5	NC	**240000**	1.0 J	5.0 U	**65000 J**
cis-1,3-Dichloropropene	ug/L	NC	NC	12000 U	5.0 U	5.0 U	15000 U
Cyclohexane	ug/L	NC	NC	12000 U	5.0 U	5.0 U	15000 U
Dibromochloromethane	ug/L	50	50	12000 U	5.0 U	5.0 U	15000 U
Dichlorodifluoromethane (CFC-12)	ug/L	5	NC	12000 U	5.0 UJ	5.0 UJ	15000 UJ
Ethylbenzene	ug/L	5	NC	12000 U	5.0 U	5.0 U	15000 U
Isopropylbenzene	ug/L	5	NC	12000 U	5.0 U	5.0 U	15000 U
Methyl acetate	ug/L	NC	NC	12000 U	5.0 U	5.0 U	15000 U
Methyl cyclohexane	ug/L	NC	NC	12000 U	5.0 U	5.0 U	15000 U
Methyl Tert Butyl Ether	ug/L	NC	10	12000 U	5.0 U	5.0 U	15000 U
Methylene chloride	ug/L	5	NC	12000 U	5.0 U	5.0 U	15000 U

TABLE 3A

ANALYTICAL RESULTS SUMMARY
GROUNDWATER INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

			Location ID:	*MW-5/BH-5*	*MW-8/BH-15*	*MW-9/BH-1*	*MW-12*
			Sample Name:	*WG-37191-082107-RN-003*	*WG-37191-082107-RN-006*	*WG-37191-082107-RN-007*	*WG-37191-082107-RN-004*
			Sample Date:	*8/21/2007*	*8/21/2007*	*8/21/2007*	*8/21/2007*
		New York State Water Quality					
Parameters	*Units*	*Standards*	*Guidance Values*				
Volatiles (Cont'd.)							
Styrene	ug/L	5	NC	12000 U	5.0 U	5.0 U	15000 U
Tetrachloroethene	ug/L	5	NC	12000 U	5.0 U	5.0 U	15000 U
Toluene	ug/L	5	NC	12000 U	5.0 U	5.0 U	15000 U
trans-1,2-Dichloroethene	ug/L	5	NC	12000 U	5.0 U	5.0 U	15000 U
trans-1,3-Dichloropropene	ug/L	NC	NC	12000 U	5.0 U	5.0 U	15000 U
Trichloroethene	ug/L	5	NC	**550000**	3.2 J	5.0 U	**190000 J**
Trichlorofluoromethane (CFC-11)	ug/L	5	NC	12000 UJ	5.0 U	5.0 U	15000 U
Trifluorotrichloroethane (Freon 113)	ug/L	5	NC	12000 U	5.0 UJ	5.0 UJ	15000 UJ
Vinyl chloride	ug/L	2	NC	12000 U	5.0 U	5.0 U	15000 U
Xylene (total)	ug/L	NC	NC	38000 U	15 U	15 U	45000 U
Semi-Volatile Organic Compounds							
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/L	5	NC	--	--	2.0 U	--
2,4,5-Trichlorophenol	ug/L	NC	NC	--	--	9.9 U	--
2,4,6-Trichlorophenol	ug/L	NC	NC	--	--	9.9 U	--
2,4-Dichlorophenol	ug/L	5	NC	--	--	2.0 U	--
2,4-Dimethylphenol	ug/L	NC	50	--	--	9.9 U	--
2,4-Dinitrophenol	ug/L	NC	10	--	--	50 UJ	--
2,4-Dinitrotoluene	ug/L	5	NC	--	--	9.9 U	--
2,6-Dinitrotoluene	ug/L	5	NC	--	--	9.9 U	--
2-Chloronaphthalene	ug/L	NC	10	--	--	2.0 U	--
2-Chlorophenol	ug/L	NC	NC	--	--	9.9 U	--
2-Methylnaphthalene	ug/L	NC	NC	--	--	0.62 J	--
2-Methylphenol	ug/L	NC	NC	--	--	9.9 U	--
2-Nitroaniline	ug/L	5	NC	--	--	50 U	--
2-Nitrophenol	ug/L	NC	NC	--	--	9.9 U	--
3,3'-Dichlorobenzidine	ug/L	5	NC	--	--	9.9 U	--
3-Nitroaniline	ug/L	5	NC	--	--	50 U	--
4,6-Dinitro-2-methylphenol	ug/L	NC	NC	--	--	50 U	--
4-Bromophenyl phenyl ether	ug/L	NC	NC	--	--	9.9 U	--
4-Chloro-3-methylphenol	ug/L	NC	NC	--	--	9.9 U	--
4-Chloroaniline	ug/L	5	NC	--	--	9.9 U	--
4-Chlorophenyl phenyl ether	ug/L	NC	NC	--	--	9.9 U	--
4-Methylphenol	ug/L	NC	NC	--	--	9.9 U	--
4-Nitroaniline	ug/L	5	NC	--	--	50 U	--
4-Nitrophenol	ug/L	NC	NC	--	--	50 U	--
Acenaphthene	ug/L	NC	20	--	--	2.0 U	--
Acenaphthylene	ug/L	NC	NC	--	--	2.0 U	--

TABLE 3A

ANALYTICAL RESULTS SUMMARY
GROUNDWATER INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

			Location ID:	*MW-5/BH-5*	*MW-8/BH-15*	*MW-9/BH-1*	*MW-12*
			Sample Name:	*WG-37191-082107-RN-003*	*WG-37191-082107-RN-006*	*WG-37191-082107-RN-007*	*WG-37191-082107-RN-004*
			Sample Date:	*8/21/2007*	*8/21/2007*	*8/21/2007*	*8/21/2007*
		New York State Water Quality					
Parameters	*Units*	*Standards*	*Guidance Values*				
Semi-Volatiles (Cont'd.)							
Acetophenone	ug/L	NC	NC	--	--	2.0 U	--
Anthracene	ug/L	NC	50	--	--	2.0 U	--
Atrazine	ug/L	7.5	NC	--	--	2.0 U	--
Benzaldehyde	ug/L	NC	NC	--	--	2.0 U	--
Benzo(a)anthracene	ug/L	NC	0.002	--	--	2.0 U	--
Benzo(a)pyrene	ug/L	NC	NC	--	--	2.0 U	--
Benzo(b)fluoranthene	ug/L	NC	0.002	--	--	2.0 U	--
Benzo(g,h,i)perylene	ug/L	NC	NC	--	--	2.0 U	--
Benzo(k)fluoranthene	ug/L	NC	0.002	--	--	2.0 U	--
Biphenyl	ug/L	5	NC	--	--	2.0 U	--
bis(2-Chloroethoxy)methane	ug/L	5	NC	--	--	9.9 U	--
bis(2-Chloroethyl)ether	ug/L	1	NC	--	--	2.0 U	--
bis(2-Ethylhexyl)phthalate	ug/L	5	NC	--	--	2.4 J	--
Butyl benzylphthalate	ug/L	NC	50	--	--	9.9 U	--
Caprolactam	ug/L	NC	NC	--	--	1200	--
Carbazole	ug/L	NC	NC	--	--	2.0 U	--
Chrysene	ug/L	NC	0.002	--	--	2.0 U	--
Dibenz(a,h)anthracene	ug/L	NC	NC	--	--	2.0 U	--
Dibenzofuran	ug/L	NC	NC	--	--	9.9 U	--
Diethyl phthalate	ug/L	NC	50	--	--	9.9 U	--
Dimethyl phthalate	ug/L	NC	50	--	--	9.9 U	--
Di-n-butylphthalate	ug/L	50	NC	--	--	9.9 U	--
Di-n-octyl phthalate	ug/L	NC	50	--	--	9.9 U	--
Fluoranthene	ug/L	NC	50	--	--	2.0 U	--
Fluorene	ug/L	NC	50	--	--	2.0 U	--
Hexachlorobenzene	ug/L	0.04	NC	--	--	2.0 U	--
Hexachlorobutadiene	ug/L	0.5	NC	--	--	2.0 U	--
Hexachlorocyclopentadiene	ug/L	5	NC	--	--	9.9 UJ	--
Hexachloroethane	ug/L	5	NC	--	--	9.9 U	--
Indeno(1,2,3-cd)pyrene	ug/L	NC	0.002	--	--	2.0 U	--
Isophorone	ug/L	NC	50	--	--	9.9 U	--
Naphthalene	ug/L	10	10	--	--	2.0 U	--
Nitrobenzene	ug/L	0.4	NC	--	--	2.0 U	--
N-Nitrosodi-n-propylamine	ug/L	NC	NC	--	--	2.0 U	--
N-Nitrosodiphenylamine	ug/L	NC	50	--	--	2.0 U	--
Pentachlorophenol	ug/L	1	NC	--	--	9.9 U	--
Phenanthrene	ug/L	NC	50	--	--	2.0 U	--
Phenol	ug/L	1	NC	--	--	0.72 J	--
Pyrene	ug/L	NC	50	--	--	2.0 U	--

TABLE 3A

ANALYTICAL RESULTS SUMMARY
GROUNDWATER INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

			Location ID:	MW-5/BH-5	MW-8/BH-15	MW-9/BH-1	MW-12
			Sample Name:	WG-37191-082107-RN-003	WG-37191-082107-RN-006	WG-37191-082107-RN-007	WG-37191-082107-RN-004
			Sample Date:	8/21/2007	8/21/2007	8/21/2007	8/21/2007
		New York State Water Quality					
Parameters	*Units*	*Standards*	*Guidance Values*				
Metals							
Aluminum	ug/L	NC	NC	--	--	8250 J	--
Antimony	ug/L	3	NC	--	--	**7.5 J**	--
Arsenic	ug/L	25	NC	--	--	9.4 J	--
Barium	ug/L	1000	NC	--	--	90.2 J	--
Beryllium	ug/L	NC	3	--	--	4.0 U	--
Cadmium	ug/L	5	NC	--	--	5.0 U	--
Calcium	ug/L	NC	NC	--	--	301000	--
Chromium Total	ug/L	50	NC	--	--	14.5	--
Cobalt	ug/L	NC	NC	--	--	6.5 J	--
Copper	ug/L	200	NC	--	--	24.6 J	--
Iron	ug/L	300	NC	--	--	**14300**	--
Lead	ug/L	25	NC	13.8	**33.6**	**28.7**	3.0 U
Magnesium	ug/L	NC	35000	--	--	**58500**	--
Manganese	ug/L	300	NC	--	--	**472**	--
Mercury	ug/L	0.7	NC	--	--	0.088 J	--
Nickel	ug/L	100	NC	--	--	18.5 J	--
Potassium	ug/L	NC	NC	--	--	10600	--
Selenium	ug/L	10	NC	--	--	5.0 U	--
Silver	ug/L	50	NC	--	--	1.3 J	--
Sodium	ug/L	20000	NC	--	--	**44700**	--
Thallium	ug/L	NC	0.5	--	--	10.0 U	--
Vanadium	ug/L	NC	NC	--	--	17.9 J	--
Zinc	ug/L	NC	2000	--	--	93.3	--
Metals (Dissolved)							
Aluminum (Dissolved)	ug/L	NC	NC	--	--	200 U	--
Antimony (Dissolved)	ug/L	3	NC	--	--	**3.3 J**	--
Arsenic (Dissolved)	ug/L	25	NC	--	--	10.0 U	--
Barium (Dissolved)	ug/L	1000	NC	--	--	35.8 J	--
Beryllium (Dissolved)	ug/L	NC	3	--	--	4.0 U	--
Cadmium (Dissolved)	ug/L	5	NC	--	--	5.0 U	--
Calcium (Dissolved)	ug/L	NC	NC	--	--	249000	--
Chromium Total (Dissolved)	ug/L	50	NC	--	--	5.0 U	--
Cobalt (Dissolved)	ug/L	NC	NC	--	--	50.0 U	--
Copper (Dissolved)	ug/L	200	NC	--	--	25.0 U	--
Iron (Dissolved)	ug/L	300	NC	--	--	100 U	--
Lead (Dissolved)	ug/L	25	NC	3.0 U	3.0 U	3.0 U	3.0 U

TABLE 3A

ANALYTICAL RESULTS SUMMARY
GROUNDWATER INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

				Location ID:	*MW-5/BH-5*	*MW-8/BH-15*	*MW-9/BH-1*	*MW-12*
				Sample Name:	*WG-37191-082107-RN-003*	*WG-37191-082107-RN-006*	*WG-37191-082107-RN-007*	*WG-37191-082107-RN-004*
				Sample Date:	*8/21/2007*	*8/21/2007*	*8/21/2007*	*8/21/2007*
		New York State Water Quality						
Parameters	*Units*	*Standards*	*Guidance Values*					
Metals (Cont'd.)								
Magnesium (Dissolved)	ug/L	NC	35000	--	--	**44700**	--
Manganese (Dissolved)	ug/L	300	NC	--	--	221	--
Mercury (Dissolved)	ug/L	0.7	NC	--	--	0.067 J	--
Nickel (Dissolved)	ug/L	100	NC	--	--	4.5 J	--
Potassium (Dissolved)	ug/L	NC	NC	--	--	7610	--
Selenium (Dissolved)	ug/L	10	NC	--	--	5.0 U	--
Silver (Dissolved)	ug/L	50	NC	--	--	5.0 U	--
Sodium (Dissolved)	ug/L	20000	NC	--	--	**43200**	--
Thallium (Dissolved)	ug/L	NC	0.5	--	--	10.0 U	--
Vanadium (Dissolved)	ug/L	NC	NC	--	--	1.3 J	--
Zinc (Dissolved)	ug/L	NC	2000	--	--	20.0 U	--
Herbicides							
2,4,5-T	ug/L	35	NC	--	--	0.96 U	--
2,4,5-TP (Silvex)	ug/L	NC	NC	--	--	0.96 U	--
2,4-DB	ug/L	NC	NC	--	--	3.8 U	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	50	NC	--	--	3.8 U	--
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	ug/L	0.44	NC	--	--	380 U	--
Dalapon	ug/L	50	NC	--	--	4.8 U	--
Dicamba	ug/L	0.44	NC	--	--	1.9 U	--
Dichlorprop	ug/L	NC	NC	--	--	3.8 U	--
Dinoseb	ug/L	1	NC	--	--	0.86 U	--
Mecoprop (MCPP)	ug/L	NC	NC	--	--	380 U	--
Pesticides							
4,4'-DDD	ug/L	0.3	NC	--	--	0.051 U	--
4,4'-DDE	ug/L	0.2	NC	--	--	0.051 U	--
4,4'-DDT	ug/L	0.2	NC	--	--	0.051 U	--
Aldrin	ug/L	NC	NC	--	--	0.051 U	--
alpha-BHC	ug/L	0.01	NC	--	--	0.051 U	--
alpha-Chlordane	ug/L	NC	NC	--	--	0.051 U	--
beta-BHC	ug/L	0.04	NC	--	--	0.051 U	--
delta-BHC	ug/L	0.04	NC	--	--	0.081 U	--
Dieldrin	ug/L	0.004	NC	--	--	0.051 U	--
Endosulfan I	ug/L	NC	NC	--	--	0.051 U	--
Endosulfan II	ug/L	NC	NC	--	--	0.051 U	--
Endosulfan sulfate	ug/L	NC	NC	--	--	0.024 J	--
Endrin	ug/L	NC	NC	--	--	0.011 J	--

TABLE 3A

ANALYTICAL RESULTS SUMMARY
GROUNDWATER INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	Units	New York State Water Quality Standards	New York State Water Quality Guidance Values	Location ID: MW-5/BH-5 Sample Name: WG-37191-082107-RN-003 Sample Date: 8/21/2007	Location ID: MW-8/BH-15 Sample Name: WG-37191-082107-RN-006 Sample Date: 8/21/2007	Location ID: MW-9/BH-1 Sample Name: WG-37191-082107-RN-007 Sample Date: 8/21/2007	Location ID: MW-12 Sample Name: WG-37191-082107-RN-004 Sample Date: 8/21/2007
Pesticides (Cont'd.)							
Endrin aldehyde	ug/L	5	NC	--	--	0.051 U	--
Endrin ketone	ug/L	5	NC	--	--	0.051 U	--
gamma-BHC (Lindane)	ug/L	0.05	NC	--	--	0.051 U	--
gamma-Chlordane	ug/L	NC	NC	--	--	0.051 U	--
Heptachlor	ug/L	0.04	NC	--	--	0.051 U	--
Heptachlor epoxide	ug/L	0.03	NC	--	--	0.051 U	--
Methoxychlor	ug/L	35	NC	--	--	0.10 U	--
Toxaphene	ug/L	0.06	NC	--	--	2.0 U	--
PCBs							
Aroclor-1016 (PCB-1016)	ug/L	NC	NC	--	--	0.41 U	--
Aroclor-1221 (PCB-1221)	ug/L	NC	NC	--	--	0.41 U	--
Aroclor-1232 (PCB-1232)	ug/L	NC	NC	--	--	0.41 U	--
Aroclor-1242 (PCB-1242)	ug/L	NC	NC	--	--	0.41 U	--
Aroclor-1248 (PCB-1248)	ug/L	NC	NC	--	--	0.41 U	--
Aroclor-1254 (PCB-1254)	ug/L	NC	NC	--	--	0.41 U	--
Aroclor-1260 (PCB-1260)	ug/L	NC	NC	--	--	0.41 U	--
WetChemistry							
Cyanide (total)	ug/L	200	NC	--	--	2.4 J	--

TABLE 3A

ANALYTICAL RESULTS SUMMARY
GROUNDWATER INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

				Location ID:	*MW-12*	*MW-4*	*MW-4*
				Sample Name:	*WG-37191-082107-RN-005*	*WG-37191-082107-RN-001*	*WG-37191-082107-RN-002*
				Sample Date:	*8/21/2007*	*8/21/2007*	*8/21/2007*
					Duplicate		*Duplicate*
		New York State Water Quality					
Parameters	*Units*	*Standards*	*Guidance Values*				
Volatile Organic Compounds							
1,1,1-Trichloroethane	ug/L	5	NC		1200 U	150 U	100 U
1,1,2,2-Tetrachloroethane	ug/L	5	NC		1200 U	150 U	100 U
1,1,2-Trichloroethane	ug/L	1	NC		1200 U	150 U	100 U
1,1-Dichloroethane	ug/L	5	NC		1200 U	150 U	100 U
1,1-Dichloroethene	ug/L	5	NC		1200 U	150 U	100 U
1,2,4-Trichlorobenzene	ug/L	5	NC		1200 U	150 U	100 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.04	NC		1200 U	150 U	100 U
1,2-Dibromoethane (Ethylene Dibromide)	ug/L	0.0006	NC		1200 U	150 U	100 U
1,2-Dichlorobenzene	ug/L	3	NC		1200 U	150 U	100 U
1,2-Dichloroethane	ug/L	0.6	NC		1200 U	150 U	100 U
1,2-Dichloropropane	ug/L	1	NC		1200 U	150 U	100 U
1,3-Dichlorobenzene	ug/L	3	NC		1200 U	150 U	100 U
1,4-Dichlorobenzene	ug/L	3	NC		1200 U	150 U	100 U
2-Butanone (Methyl Ethyl Ketone)	ug/L	50	50		1200 U	150 U	100 U
2-Hexanone	ug/L	50	50		1200 U	150 U	100 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	NC	NC		1200 U	150 U	100 U
Acetone	ug/L	NC	50		5000 U	600 UJ	400 U
Benzene	ug/L	1	NC		1200 U	150 U	100 U
Bromodichloromethane	ug/L	50	50		1200 U	150 U	100 U
Bromoform	ug/L	50	50		1200 U	150 U	100 U
Bromomethane (Methyl Bromide)	ug/L	5	NC		1200 U	150 U	100 U
Carbon disulfide	ug/L	NC	60		1200 U	150 U	100 U
Carbon tetrachloride	ug/L	5	NC		1200 U	150 U	100 U
Chlorobenzene	ug/L	5	NC		1200 U	150 U	100 U
Chloroethane	ug/L	5	NC		1200 UJ	150 U	100 UJ
Chloroform (Trichloromethane)	ug/L	7	NC		1200 U	150 U	100 U
Chloromethane (Methyl Chloride)	ug/L	5	NC		1200 U	150 U	100 U
cis-1,2-Dichloroethene	ug/L	5	NC		**25000 J**	**2200 J**	**1100 J**
cis-1,3-Dichloropropene	ug/L	NC	NC		1200 U	150 U	100 U
Cyclohexane	ug/L	NC	NC		1200 U	150 U	100 U
Dibromochloromethane	ug/L	50	50		1200 U	150 U	100 U
Dichlorodifluoromethane (CFC-12)	ug/L	5	NC		1200 U	150 UJ	100 U
Ethylbenzene	ug/L	5	NC		1200 U	150 U	100 U
Isopropylbenzene	ug/L	5	NC		1200 U	150 U	100 U
Methyl acetate	ug/L	NC	NC		1200 U	150 U	100 U
Methyl cyclohexane	ug/L	NC	NC		1200 U	150 U	100 U
Methyl Tert Butyl Ether	ug/L	NC	10		1200 U	150 U	100 U
Methylene chloride	ug/L	5	NC		1200 U	150 U	100 U

TABLE 3A

ANALYTICAL RESULTS SUMMARY
GROUNDWATER INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	Units	New York State Water Quality Standards	New York State Water Quality Guidance Values	Location ID: MW-12 Sample Name: WG-37191-082107-RN-005 Sample Date: 8/21/2007 Duplicate	Location ID: MW-4 Sample Name: WG-37191-082107-RN-001 Sample Date: 8/21/2007	Location ID: MW-4 Sample Name: WG-37191-082107-RN-002 Sample Date: 8/21/2007 Duplicate
Volatiles (Cont'd.)						
Styrene	ug/L	5	NC	1200 U	150 U	100 U
Tetrachloroethene	ug/L	5	NC	1200 U	150 U	100 U
Toluene	ug/L	5	NC	1200 U	150 U	100 U
trans-1,2-Dichloroethene	ug/L	5	NC	1200 U	**87 J**	**34 J**
trans-1,3-Dichloropropene	ug/L	NC	NC	1200 U	150 U	100 U
Trichloroethene	ug/L	5	NC	**26000 J**	**2000 J**	**1000 J**
Trichlorofluoromethane (CFC-11)	ug/L	5	NC	1200 U	150 U	100 U
Trifluorotrichloroethane (Freon 113)	ug/L	5	NC	1200 UJ	150 UJ	100 UJ
Vinyl chloride	ug/L	2	NC	**760 J**	**31 J**	100 U
Xylene (total)	ug/L	NC	NC	3800 U	450 U	300 U
Semi-Volatile Organic Compounds						
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	ug/L	5	NC	--	2.1 U	2.1 U
2,4,5-Trichlorophenol	ug/L	NC	NC	--	11 U	10 U
2,4,6-Trichlorophenol	ug/L	NC	NC	--	11 U	10 U
2,4-Dichlorophenol	ug/L	5	NC	--	2.1 U	2.1 U
2,4-Dimethylphenol	ug/L	NC	50	--	11 U	10 U
2,4-Dinitrophenol	ug/L	NC	10	--	53 UJ	52 UJ
2,4-Dinitrotoluene	ug/L	5	NC	--	11 U	10 U
2,6-Dinitrotoluene	ug/L	5	NC	--	11 U	10 U
2-Chloronaphthalene	ug/L	NC	10	--	2.1 U	2.1 U
2-Chlorophenol	ug/L	NC	NC	--	11 U	10 U
2-Methylnaphthalene	ug/L	NC	NC	--	2.1 U	2.1 U
2-Methylphenol	ug/L	NC	NC	--	11 U	10 U
2-Nitroaniline	ug/L	5	NC	--	53 U	52 U
2-Nitrophenol	ug/L	NC	NC	--	11 U	10 U
3,3'-Dichlorobenzidine	ug/L	5	NC	--	11 U	10 U
3-Nitroaniline	ug/L	5	NC	--	53 U	52 U
4,6-Dinitro-2-methylphenol	ug/L	NC	NC	--	53 U	52 U
4-Bromophenyl phenyl ether	ug/L	NC	NC	--	11 U	10 U
4-Chloro-3-methylphenol	ug/L	NC	NC	--	11 U	10 U
4-Chloroaniline	ug/L	5	NC	--	11 U	10 U
4-Chlorophenyl phenyl ether	ug/L	NC	NC	--	11 U	10 U
4-Methylphenol	ug/L	NC	NC	--	11 U	10 U
4-Nitroaniline	ug/L	5	NC	--	53 U	52 U
4-Nitrophenol	ug/L	NC	NC	--	53 U	52 U
Acenaphthene	ug/L	NC	20	--	2.1 U	2.1 U
Acenaphthylene	ug/L	NC	NC	--	2.1 U	2.1 U

TABLE 3A

ANALYTICAL RESULTS SUMMARY
GROUNDWATER INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	Units	New York State Water Quality Standards	New York State Water Quality Guidance Values	Location ID: MW-12 Sample Name: WG-37191-082107-RN-005 Sample Date: 8/21/2007 Duplicate	Location ID: MW-4 Sample Name: WG-37191-082107-RN-001 Sample Date: 8/21/2007	Location ID: MW-4 Sample Name: WG-37191-082107-RN-002 Sample Date: 8/21/2007 Duplicate
Semi-Volatiles (Cont'd.)						
Acetophenone	ug/L	NC	NC	--	2.1 U	2.1 U
Anthracene	ug/L	NC	50	--	2.1 U	2.1 U
Atrazine	ug/L	7.5	NC	--	2.1 U	2.1 U
Benzaldehyde	ug/L	NC	NC	--	2.1 U	2.1 U
Benzo(a)anthracene	ug/L	NC	0.002	--	2.1 U	**0.84 J**
Benzo(a)pyrene	ug/L	NC	NC	--	2.1 U	2.1 U
Benzo(b)fluoranthene	ug/L	NC	0.002	--	2.1 U	**0.81 J**
Benzo(g,h,i)perylene	ug/L	NC	NC	--	2.1 U	2.1 U
Benzo(k)fluoranthene	ug/L	NC	0.002	--	2.1 U	2.1 U
Biphenyl	ug/L	5	NC	--	2.1 U	2.1 U
bis(2-Chloroethoxy)methane	ug/L	5	NC	--	11 U	10 U
bis(2-Chloroethyl)ether	ug/L	1	NC	--	2.1 U	2.1 U
bis(2-Ethylhexyl)phthalate	ug/L	5	NC	--	2.1 J	1.4 J
Butyl benzylphthalate	ug/L	NC	50	--	11 U	10 U
Caprolactam	ug/L	NC	NC	--	260	370
Carbazole	ug/L	NC	NC	--	2.1 U	2.1 U
Chrysene	ug/L	NC	0.002	--	2.1 U	2.1 U
Dibenz(a,h)anthracene	ug/L	NC	NC	--	2.1 U	2.1 U
Dibenzofuran	ug/L	NC	NC	--	11 U	10 U
Diethyl phthalate	ug/L	NC	50	--	11 U	3.0 J
Dimethyl phthalate	ug/L	NC	50	--	11 U	10 U
Di-n-butylphthalate	ug/L	50	NC	--	11 U	10 U
Di-n-octyl phthalate	ug/L	NC	50	--	11 U	10 U
Fluoranthene	ug/L	NC	50	--	2.1 U	1.5 J
Fluorene	ug/L	NC	50	--	2.1 U	2.1 U
Hexachlorobenzene	ug/L	0.04	NC	--	2.1 U	2.1 U
Hexachlorobutadiene	ug/L	0.5	NC	--	2.1 U	2.1 U
Hexachlorocyclopentadiene	ug/L	5	NC	--	11 UJ	10 UJ
Hexachloroethane	ug/L	5	NC	--	11 U	10 U
Indeno(1,2,3-cd)pyrene	ug/L	NC	0.002	--	2.1 U	2.1 U
Isophorone	ug/L	NC	50	--	11 U	10 U
Naphthalene	ug/L	10	10	--	2.1 U	2.1 U
Nitrobenzene	ug/L	0.4	NC	--	2.1 U	2.1 U
N-Nitrosodi-n-propylamine	ug/L	NC	NC	--	2.1 U	2.1 U
N-Nitrosodiphenylamine	ug/L	NC	50	--	2.1 U	2.1 U
Pentachlorophenol	ug/L	1	NC	--	11 U	10 U
Phenanthrene	ug/L	NC	50	--	0.76 J	1.1 J
Phenol	ug/L	1	NC	--	2.1 U	0.59 J
Pyrene	ug/L	NC	50	--	0.72 J	1.2 J

TABLE 3A

ANALYTICAL RESULTS SUMMARY
GROUNDWATER INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	Units	New York State Water Quality Standards	New York State Water Quality Guidance Values	Location ID: MW-12 Sample Name: WG-37191-082107-RN-005 Sample Date: 8/21/2007 Duplicate	Location ID: MW-4 Sample Name: WG-37191-082107-RN-001 Sample Date: 8/21/2007	Location ID: MW-4 Sample Name: WG-37191-082107-RN-002 Sample Date: 8/21/2007 Duplicate
Metals						
Aluminum	ug/L	NC	NC	--	5110 J	4190 J
Antimony	ug/L	3	NC	--	**3.9 J**	**5.0 J**
Arsenic	ug/L	25	NC	--	4.7 J	4.1 J
Barium	ug/L	1000	NC	--	110 J	86.6 J
Beryllium	ug/L	NC	3	--	4.0 U	4.0 U
Cadmium	ug/L	5	NC	--	5.0 U	5.0 U
Calcium	ug/L	NC	NC	--	172000	165000
Chromium Total	ug/L	50	NC	--	13.6	10.2
Cobalt	ug/L	NC	NC	--	4.4 J	3.3 J
Copper	ug/L	200	NC	--	13.8 J	10.2 J
Iron	ug/L	300	NC	--	**6350**	**4850**
Lead	ug/L	25	NC	3.0 U	**56.8 J**	**30.0 J**
Magnesium	ug/L	NC	35000	--	**46300**	**44000**
Manganese	ug/L	300	NC	--	**915**	**860**
Mercury	ug/L	0.7	NC	--	0.097 J	0.20 U
Nickel	ug/L	100	NC	--	10.7 J	8.1 J
Potassium	ug/L	NC	NC	--	2470 J	2260 J
Selenium	ug/L	10	NC	--	2.6 J	5.0 U
Silver	ug/L	50	NC	--	2.1 J	1.2 J
Sodium	ug/L	20000	NC	--	**168000**	**173000**
Thallium	ug/L	NC	0.5	--	**3.2 J**	**5.0 J**
Vanadium	ug/L	NC	NC	--	18.8 J	21.6 J
Zinc	ug/L	NC	2000	--	67.4	40.9 U
Metals (Dissolved)						
Aluminum (Dissolved)	ug/L	NC	NC	--	200 U	200 U
Antimony (Dissolved)	ug/L	3	NC	--	10.0 U	10.0 U
Arsenic (Dissolved)	ug/L	25	NC	--	10.0 U	10.0 U
Barium (Dissolved)	ug/L	1000	NC	--	40.4 J	43.1 J
Beryllium (Dissolved)	ug/L	NC	3	--	4.0 U	4.0 U
Cadmium (Dissolved)	ug/L	5	NC	--	5.0 U	5.0 U
Calcium (Dissolved)	ug/L	NC	NC	--	135000	144000
Chromium Total (Dissolved)	ug/L	50	NC	--	5.0 U	5.0 U
Cobalt (Dissolved)	ug/L	NC	NC	--	50.0 U	50.0 U
Copper (Dissolved)	ug/L	200	NC	--	25.0 U	25.0 U
Iron (Dissolved)	ug/L	300	NC	--	100 U	100 U
Lead (Dissolved)	ug/L	25	NC	3.0 U	3.0 U	3.0 U

TABLE 3A

ANALYTICAL RESULTS SUMMARY
GROUNDWATER INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	Units	New York State Water Quality Standards	New York State Water Quality Guidance Values	Location ID: MW-12 Sample Name: WG-37191-082107-RN-005 Sample Date: 8/21/2007 Duplicate	Location ID: MW-4 Sample Name: WG-37191-082107-RN-001 Sample Date: 8/21/2007	Location ID: MW-4 Sample Name: WG-37191-082107-RN-002 Sample Date: 8/21/2007 Duplicate
Metals (Cont'd.)						
Magnesium (Dissolved)	ug/L	NC	35000	--	**36000**	**38300**
Manganese (Dissolved)	ug/L	300	NC	--	**714**	**761**
Mercury (Dissolved)	ug/L	0.7	NC	--	0.062 J	0.20 U
Nickel (Dissolved)	ug/L	100	NC	--	1.4 J	1.2 J
Potassium (Dissolved)	ug/L	NC	NC	--	1290 J	1390 J
Selenium (Dissolved)	ug/L	10	NC	--	5.0 U	5.0 U
Silver (Dissolved)	ug/L	50	NC	--	5.0 U	5.0 U
Sodium (Dissolved)	ug/L	20000	NC	--	**193000**	**192000**
Thallium (Dissolved)	ug/L	NC	0.5	--	10.0 U	10.0 U
Vanadium (Dissolved)	ug/L	NC	NC	--	11.8 J	10.7 J
Zinc (Dissolved)	ug/L	NC	2000	--	20.0 U	20.0 U
Herbicides						
2,4,5-T	ug/L	35	NC	--	0.95 U	1.1 U
2,4,5-TP (Silvex)	ug/L	NC	NC	--	0.95 U	1.1 U
2,4-DB	ug/L	NC	NC	--	3.8 U	4.4 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	50	NC	--	3.8 U	4.4 U
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	ug/L	0.44	NC	--	380 U	440 U
Dalapon	ug/L	50	NC	--	4.8 U	5.6 U
Dicamba	ug/L	0.44	NC	--	1.9 U	2.2 U
Dichlorprop	ug/L	NC	NC	--	3.8 U	4.4 U
Dinoseb	ug/L	1	NC	--	0.86 U	1.0 U
Mecoprop (MCPP)	ug/L	NC	NC	--	380 U	440 U
Pesticides						
4,4'-DDD	ug/L	0.3	NC	--	0.051 U	0.051 U
4,4'-DDE	ug/L	0.2	NC	--	0.051 U	0.051 U
4,4'-DDT	ug/L	0.2	NC	--	0.051 U	0.051 U
Aldrin	ug/L	NC	NC	--	0.051 U	0.051 U
alpha-BHC	ug/L	0.01	NC	--	**0.021 J**	0.051 U
alpha-Chlordane	ug/L	NC	NC	--	0.051 U	0.051 U
beta-BHC	ug/L	0.04	NC	--	0.051 U	0.051 U
delta-BHC	ug/L	0.04	NC	--	0.051 U	0.051 U
Dieldrin	ug/L	0.004	NC	--	0.051 U	0.051 U
Endosulfan I	ug/L	NC	NC	--	0.051 U	0.051 U
Endosulfan II	ug/L	NC	NC	--	0.051 U	0.051 U
Endosulfan sulfate	ug/L	NC	NC	--	0.051 U	0.051 U
Endrin	ug/L	NC	NC	--	0.051 U	0.051 U

TABLE 3A

ANALYTICAL RESULTS SUMMARY
GROUNDWATER INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	Units	New York State Water Quality Standards	New York State Water Quality Guidance Values	Location ID: MW-12 Sample Name: WG-37191-082107-RN-005 Sample Date: 8/21/2007 Duplicate	Location ID: MW-4 Sample Name: WG-37191-082107-RN-001 Sample Date: 8/21/2007	Location ID: MW-4 Sample Name: WG-37191-082107-RN-002 Sample Date: 8/21/2007 Duplicate
Pesticides (Cont'd.)						
Endrin aldehyde	ug/L	5	NC	--	0.051 U	0.051 U
Endrin ketone	ug/L	5	NC	--	0.051 U	0.051 U
gamma-BHC (Lindane)	ug/L	0.05	NC	--	0.051 U	0.051 U
gamma-Chlordane	ug/L	NC	NC	--	0.051 U	0.051 U
Heptachlor	ug/L	0.04	NC	--	0.051 U	0.051 U
Heptachlor epoxide	ug/L	0.03	NC	--	0.051 U	0.051 U
Methoxychlor	ug/L	35	NC	--	0.10 U	0.10 U
Toxaphene	ug/L	0.06	NC	--	2.0 U	2.0 U
PCBs						
Aroclor-1016 (PCB-1016)	ug/L	NC	NC	--	0.41 U	0.41 U
Aroclor-1221 (PCB-1221)	ug/L	NC	NC	--	0.41 U	0.41 U
Aroclor-1232 (PCB-1232)	ug/L	NC	NC	--	0.41 U	0.41 U
Aroclor-1242 (PCB-1242)	ug/L	NC	NC	--	0.41 U	0.41 U
Aroclor-1248 (PCB-1248)	ug/L	NC	NC	--	0.41 U	0.41 U
Aroclor-1254 (PCB-1254)	ug/L	NC	NC	--	0.41 U	0.41 U
Aroclor-1260 (PCB-1260)	ug/L	NC	NC	--	0.41 U	0.41 U
WetChemistry						
Cyanide (total)	ug/L	200	NC	--	10.0 U	6.4 J

Notes:

-	Not analyzed.
1.0	Exceeds Criteria.
B	Compound detected in an associated blank.
BHC	Benzene Hexachloride.
D	Reported from a diluted analysis.
E	Exceeds the linear range of the instrument.
GC	Gas Chromatograph
J	Estimated.
N	Tentatively identified.
NC	No Criteria.
P	Greater than 25% difference between concentrations detected on the two GC columns.
PCBs	Polychlorinated Biphenyls.
U	Not detected.
UJ	Not detected, estimated reporting limit.

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	Units [1]	6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial	Location ID: SB-1-07	SB-2-07	SB-2-07	SB-3-07	SB-4-07
			Sample Name: SO-37191-072507-RN-SB-1	SO-37191-072707-RN-SB-2	SO-37191-072707-RN-SB-20	SO-37191-072707-RN-SB-3	SO-37191-072707-RN-SB-4
			Sample Date: 7/25/2007	7/27/2007	7/27/2007	7/27/2007	7/27/2007
			Depth: 2 - 4 ft	6.5 - 8 ft	6.5 - 8 ft Duplicate	10 - 13 ft	2 - 4 ft
Volatile Organic Compounds							
1,1,1-Trichloroethane	mg/kg	1000	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
1,1,2,2-Tetrachloroethane	mg/kg	NC	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
1,1,2-Trichloroethane	mg/kg	NC	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
1,1-Dichloroethane	mg/kg	480	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
1,1-Dichloroethene	mg/kg	1000	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
1,2,4-Trichlorobenzene	mg/kg	NC	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	NC	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	NC	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
1,2-Dichlorobenzene	mg/kg	1000	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
1,2-Dichloroethane	mg/kg	60	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
1,2-Dichloropropane	mg/kg	NC	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
1,3-Dichlorobenzene	mg/kg	560	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
1,4-Dichlorobenzene	mg/kg	250	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	1000	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
2-Hexanone	mg/kg	NC	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	NC	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
Acetone	mg/kg	1000	0.028 U	0.025 UJ	0.023 J	0.024 UJ	0.025 U
Benzene	mg/kg	89	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
Bromodichloromethane	mg/kg	NC	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
Bromoform	mg/kg	NC	0.0069 UJ	0.0062 UJ	0.0067 UJ	0.006 UJ	0.0062 UJ
Bromomethane (Methyl Bromide)	mg/kg	NC	0.0069 UJ	0.0062 UJ	0.0067 UJ	0.006 UJ	0.0062 UJ
Carbon disulfide	mg/kg	NC	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
Carbon tetrachloride	mg/kg	44	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
Chlorobenzene	mg/kg	1000	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
Chloroethane	mg/kg	NC	0.0069 UJ	0.0062 UJ	0.0067 UJ	0.006 UJ	0.0062 UJ
Chloroform (Trichloromethane)	mg/kg	700	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
Chloromethane (Methyl Chloride)	mg/kg	NC	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
cis-1,2-Dichloroethene	mg/kg	1000	0.0069 U	0.0014 J	0.0067 U	0.006 U	0.0062 U
cis-1,3-Dichloropropene	mg/kg	NC	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
Cyclohexane	mg/kg	NC	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
Dibromochloromethane	mg/kg	NC	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
Dichlorodifluoromethane (CFC-12)	mg/kg	NC	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
Ethylbenzene	mg/kg	780	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
Isopropylbenzene	mg/kg	NC	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
Methyl acetate	mg/kg	NC	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	Units [1]	6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial	Location ID: SB-1-07	SB-2-07	SB-2-07	SB-3-07	SB-4-07
			Sample Name: SO-37191-072507-RN-SB-1	SO-37191-072707-RN-SB-2	SO-37191-072707-RN-SB-20	SO-37191-072707-RN-SB-3	SO-37191-072707-RN-SB-4
			Sample Date: 7/25/2007	7/27/2007	7/27/2007	7/27/2007	7/27/2007
			Depth: 2 - 4 ft	6.5 - 8 ft	6.5 - 8 ft Duplicate	10 - 13 ft	2 - 4 ft
Volatiles (Cont'd.)							
Methyl cyclohexane	mg/kg	NC	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
Methyl Tert Butyl Ether	mg/kg	1000	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
Methylene chloride	mg/kg	1000	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
Styrene	mg/kg	NC	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
Tetrachloroethene	mg/kg	300	0.0069 U	0.0062 U	0.0067 U	0.0017 J	0.0062 U
Toluene	mg/kg	1000	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
trans-1,2-Dichloroethene	mg/kg	1000	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
trans-1,3-Dichloropropene	mg/kg	NC	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
Trichloroethene	mg/kg	400	0.0069 U	0.0019 J	0.0067 U	0.006 U	0.0062 U
Trichlorofluoromethane (CFC-11)	mg/kg	NC	0.0069 UJ	0.0062 U	0.0067 UJ	0.006 U	0.0062 UJ
Trifluorotrichloroethane (Freon 113)	mg/kg	NC	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
Vinyl chloride	mg/kg	27	0.0069 U	0.0062 U	0.0067 U	0.006 U	0.0062 U
Xylene (total)	mg/kg	1000	0.021 U	0.019 U	0.02 U	0.018 U	0.019 U
Semi-Volatile Organic Compounds							
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/kg	NC	0.093 U	0.17 U	0.18 U	0.08 U	0.083 U
2,4,5-Trichlorophenol	mg/kg	NC	0.46 U	0.82 U	0.88 U	0.39 U	0.41 U
2,4,6-Trichlorophenol	mg/kg	NC	0.46 U	0.82 U	0.88 U	0.39 U	0.41 U
2,4-Dichlorophenol	mg/kg	NC	0.093 U	0.17 U	0.18 U	0.08 U	0.083 U
2,4-Dimethylphenol	mg/kg	NC	0.46 U	0.82 U	0.88 U	0.39 U	0.41 U
2,4-Dinitrophenol	mg/kg	NC	2.3 UJ	4.1 UJ	4.4 UJ	2 UJ	2.1 UJ
2,4-Dinitrotoluene	mg/kg	NC	0.46 U	0.82 U	0.88 U	0.39 U	0.41 U
2,6-Dinitrotoluene	mg/kg	NC	0.46 U	0.82 U	0.88 U	0.39 U	0.41 U
2-Chloronaphthalene	mg/kg	NC	0.093 U	0.17 U	0.18 U	0.08 U	0.083 U
2-Chlorophenol	mg/kg	NC	0.46 U	0.82 U	0.88 U	0.39 U	0.41 U
2-Methylnaphthalene	mg/kg	NC	0.076 J	0.12 J	0.17 J	0.08 U	0.061 J
2-Methylphenol	mg/kg	1000	0.46 U	0.82 U	0.88 U	0.39 U	0.41 U
2-Nitroaniline	mg/kg	NC	2.3 U	4.1 U	4.4 U	2 U	2.1 U
2-Nitrophenol	mg/kg	NC	0.46 U	0.82 U	0.88 U	0.39 U	0.41 U
3,3'-Dichlorobenzidine	mg/kg	NC	0.46 U	0.82 U	0.88 U	0.39 U	0.41 U
3-Nitroaniline	mg/kg	NC	2.3 U	4.1 U	4.4 U	2 U	2.1 U
4,6-Dinitro-2-methylphenol	mg/kg	NC	2.2 U	3.9 U	4.2 U	1.9 U	1.9 U
4-Bromophenyl phenyl ether	mg/kg	NC	0.46 U	0.82 U	0.88 U	0.39 U	0.41 U
4-Chloro-3-methylphenol	mg/kg	NC	0.46 U	0.82 U	0.88 U	0.39 U	0.41 U

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	Units [1]	6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial	Location ID: SB-1-07	SB-2-07	SB-2-07	SB-3-07	SB-4-07
			Sample Name: SO-37191-072507-RN-SB-1	SO-37191-072707-RN-SB-2	SO-37191-072707-RN-SB-20	SO-37191-072707-RN-SB-3	SO-37191-072707-RN-SB-4
			Sample Date: 7/25/2007	7/27/2007	7/27/2007	7/27/2007	7/27/2007
			Depth: 2 - 4 ft	6.5 - 8 ft	6.5 - 8 ft Duplicate	10 - 13 ft	2 - 4 ft
Semi-Volatiles (Cont'd.)							
4-Chloroaniline	mg/kg	NC	0.46 U	0.82 U	0.88 U	0.39 U	0.41 U
4-Chlorophenyl phenyl ether	mg/kg	NC	0.46 U	0.82 U	0.88 U	0.39 U	0.41 U
4-Methylphenol	mg/kg	1000	0.46 U	0.06 J	0.88 U	0.39 U	0.41 U
4-Nitroaniline	mg/kg	NC	2.3 U	4.1 U	4.4 U	2 U	2.1 U
4-Nitrophenol	mg/kg	NC	2.3 U	4.1 U	4.4 U	2 U	2.1 U
Acenaphthene	mg/kg	1000	0.093 U	0.25	0.47	0.08 U	0.084
Acenaphthylene	mg/kg	1000	0.093 U	0.062 J	0.12 J	0.08 U	0.065 J
Acetophenone	mg/kg	NC	0.46 U	0.82 U	0.88 U	0.39 U	0.41 U
Anthracene	mg/kg	1000	0.093 U	0.53	1.2	0.08 U	0.23
Atrazine	mg/kg	NC	0.46 UJ	0.82 UJ	0.88 UJ	0.39 UJ	0.41 UJ
Benzaldehyde	mg/kg	NC	0.46 UJ	0.82 UJ	0.88 UJ	0.39 UJ	0.41 UJ
Benzo(a)anthracene	mg/kg	11	0.061 J	1.5	3	0.08 U	0.66
Benzo(a)pyrene	mg/kg	1.1	0.047 J	**1.4**	**2.7**	0.08 U	0.66
Benzo(b)fluoranthene	mg/kg	11	0.044 J	1.6	3.3	0.08 U	0.81
Benzo(g,h,i)perylene	mg/kg	1000	0.081 J	1	2	0.08 U	0.52
Benzo(k)fluoranthene	mg/kg	110	0.022 J	0.73	1.3	0.08 U	0.28
Biphenyl	mg/kg	NC	0.46 U	0.82 U	0.88 U	0.39 U	0.41 U
bis(2-Chloroethoxy)methane	mg/kg	NC	0.46 U	0.82 U	0.88 U	0.39 U	0.41 U
bis(2-Chloroethyl)ether	mg/kg	NC	0.093 U	0.17 U	0.18 U	0.08 U	0.083 U
bis(2-Ethylhexyl)phthalate	mg/kg	NC	0.46 U	0.26 J	0.88 U	0.081 J	0.41 U
Butyl benzylphthalate	mg/kg	NC	0.46 U	0.82 U	0.12 J	0.39 U	0.036 J
Caprolactam	mg/kg	NC	0.46 U	0.82 U	0.88 U	0.39 U	0.41 U
Carbazole	mg/kg	NC	0.093 U	0.23	0.67	0.08 U	0.088
Chrysene	mg/kg	110	0.1	1.4	2.7	0.08 U	0.65
Dibenz(a,h)anthracene	mg/kg	1.1	0.093 U	0.23	0.46	0.08 U	0.12
Dibenzofuran	mg/kg	1000	0.036 J	0.23 J	0.36 J	0.39 U	0.072 J
Diethyl phthalate	mg/kg	NC	0.54	0.82 U	0.88 U	0.39 U	0.41 U
Dimethyl phthalate	mg/kg	NC	0.46 U	0.82 U	0.88 U	0.39 U	0.41 U
Di-n-butylphthalate	mg/kg	NC	0.46 U	0.82 U	0.88 U	0.39 U	0.41 U
Di-n-octyl phthalate	mg/kg	NC	0.46 U	0.82 U	0.88 U	0.39 U	0.41 U
Fluoranthene	mg/kg	1000	0.11	2.7	6.2	0.08 U	1.2
Fluorene	mg/kg	1000	0.093 U	0.24	0.53	0.08 U	0.1
Hexachlorobenzene	mg/kg	12	0.093 U	0.17 U	0.18 U	0.08 U	0.083 U
Hexachlorobutadiene	mg/kg	NC	0.093 U	0.17 U	0.18 U	0.08 U	0.083 U
Hexachlorocyclopentadiene	mg/kg	NC	0.46 U	0.82 U	0.88 U	0.39 U	0.41 U

ANALYTICAL RESULTS SUMMARY
SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	Units [1]	6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial	Location ID: SB-1-07	SB-2-07	SB-2-07	SB-3-07	SB-4-07
			Sample Name: SO-37191-072507-RN-SB-1	SO-37191-072707-RN-SB-2	SO-37191-072707-RN-SB-20	SO-37191-072707-RN-SB-3	SO-37191-072707-RN-SB-4
			Sample Date: 7/25/2007	7/27/2007	7/27/2007	7/27/2007	7/27/2007
			Depth: 2 - 4 ft	6.5 - 8 ft	6.5 - 8 ft Duplicate	10 - 13 ft	2 - 4 ft
Semi-Volatiles (Cont'd.)							
Hexachloroethane	mg/kg	NC	0.46 U	0.82 U	0.88 U	0.39 U	0.41 U
Indeno(1,2,3-cd)pyrene	mg/kg	11	0.055 J	0.94	1.8	0.08 U	0.45
Isophorone	mg/kg	NC	0.46 U	0.82 U	0.88 U	0.39 U	0.41 U
Naphthalene	mg/kg	1000	0.041 J	0.16 J	0.29	0.08 U	0.086
Nitrobenzene	mg/kg	NC	0.093 U	0.17 U	0.18 U	0.08 U	0.083 U
N-Nitrosodi-n-propylamine	mg/kg	NC	0.093 U	0.17 U	0.18 U	0.08 U	0.083 U
N-Nitrosodiphenylamine	mg/kg	NC	0.46 U	0.82 U	0.88 U	0.39 U	0.41 U
Pentachlorophenol	mg/kg	55	0.46 U	0.82 U	0.88 U	0.39 U	0.41 U
Phenanthrene	mg/kg	1000	0.15	2.1	5	0.08 U	0.79
Phenol	mg/kg	1000	0.093 U	0.17 U	0.18 U	0.08 U	0.083 U
Pyrene	mg/kg	1000	0.12	2.9	5.4	0.08 U	1.1
Metals							
Aluminum	mg/kg	NC	9270	--	--	6270	--
Antimony	mg/kg	NC	1.4 U	--	--	1.2 U	--
Arsenic	mg/kg	16	11.4	--	--	2.0	--
Barium	mg/kg	10000	103	--	--	59.1	--
Beryllium	mg/kg	2700	2.0	--	--	0.57 U	--
Cadmium	mg/kg	60	0.66 J	--	--	0.20 J	--
Calcium	mg/kg	NC	103000	--	--	66900	--
Chromium Total [2]	mg/kg	800	13.0	--	--	10.1	--
Cobalt	mg/kg	NC	6.1 J	--	--	5.2 J	--
Copper	mg/kg	10000	60.8	--	--	13.2	--
Iron	mg/kg	NC	32300	--	--	11400	--
Lead	mg/kg	3900	78.3	229	567	6.3	285
Magnesium	mg/kg	NC	13700	--	--	21100	--
Manganese	mg/kg	10000	712	--	--	330	--
Mercury	mg/kg	5.7	0.45	--	--	0.049	--
Nickel	mg/kg	10000	16.0	--	--	10.6	--
Potassium	mg/kg	NC	1170	--	--	1580	--
Selenium	mg/kg	6800	0.69 U	--	--	1.2 U	--
Silver	mg/kg	6800	0.69 U	--	--	0.60 U	--
Sodium	mg/kg	NC	572 J	--	--	220 J	--
Thallium	mg/kg	NC	1.4 U	--	--	1.2 U	--

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	Units [1]	6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial	Location ID: SB-1-07	SB-2-07	SB-2-07	SB-3-07	SB-4-07
			Sample Name: SO-37191-072507-RN-SB-1	SO-37191-072707-RN-SB-2	SO-37191-072707-RN-SB-20	SO-37191-072707-RN-SB-3	SO-37191-072707-RN-SB-4
			Sample Date: 7/25/2007	7/27/2007	7/27/2007	7/27/2007	7/27/2007
			Depth: 2 - 4 ft	6.5 - 8 ft	6.5 - 8 ft Duplicate	10 - 13 ft	2 - 4 ft
Metals (Cont'd.)							
Vanadium	mg/kg	NC	11.6	--	--	16.8	--
Zinc	mg/kg	10000	107	--	--	40.2	--
Herbicides							
2,4,5-T	mg/kg	NC	0.028 U	--	--	0.024 U	--
2,4,5-TP (Silvex)	mg/kg	1000	0.028 U	--	--	0.024 U	--
2,4-DB	mg/kg	NC	0.11 U	--	--	0.095 U	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/kg	NC	0.11 U	--	--	0.095 U	--
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	mg/kg	NC	11 U	--	--	9.5 U	--
Dalapon	mg/kg	NC	0.12 U	--	--	0.11 U	--
Dicamba	mg/kg	NC	0.055 U	--	--	0.048 U	--
Dichlorprop	mg/kg	NC	0.11 U	--	--	0.095 U	--
Dinoseb	mg/kg	NC	0.017 U	--	--	0.014 U	--
Mecoprop (MCPP)	mg/kg	NC	11 U	--	--	9.5 U	--
Pesticides							
4,4'-DDD	mg/kg	180	0.00085 J	--	--	0.00055 J	--
4,4'-DDE	mg/kg	120	0.002 J	--	--	0.00052 J	--
4,4'-DDT	mg/kg	94	0.0017 J	--	--	0.002 U	--
Aldrin	mg/kg	1.4	0.0021 J	--	--	0.002 U	--
alpha-BHC	mg/kg	6.8	0.0023 U	--	--	0.002 U	--
alpha-Chlordane	mg/kg	47	0.0023 U	--	--	0.002 U	--
beta-BHC	mg/kg	14	0.0023 U	--	--	0.002 U	--
delta-BHC	mg/kg	1000	0.00054 J	--	--	0.00033 J	--
Dieldrin	mg/kg	2.8	0.0023 U	--	--	0.002 U	--
Endosulfan I	mg/kg	920	0.0023 U	--	--	0.002 U	--
Endosulfan II	mg/kg	920	0.0023 U	--	--	0.002 U	--
Endosulfan sulfate	mg/kg	920	0.00077 J	--	--	0.002 U	--
Endrin	mg/kg	410	0.0023 U	--	--	0.002 U	--
Endrin aldehyde	mg/kg	NC	0.0023 U	--	--	0.002 U	--
Endrin ketone	mg/kg	NC	0.0023 U	--	--	0.002 U	--
gamma-BHC (Lindane)	mg/kg	23	0.0075	--	--	0.00098 J	--
gamma-Chlordane	mg/kg	NC	0.0023 U	--	--	0.002 U	--
Heptachlor	mg/kg	29	0.0023 U	--	--	0.002 U	--
Heptachlor epoxide	mg/kg	NC	0.0023 U	--	--	0.002 U	--

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	Units [1]	6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial	Location ID: SB-1-07	SB-2-07	SB-2-07	SB-3-07	SB-4-07
			Sample Name: SO-37191-072507-RN-SB-1	SO-37191-072707-RN-SB-2	SO-37191-072707-RN-SB-20	SO-37191-072707-RN-SB-3	SO-37191-072707-RN-SB-4
			Sample Date: 7/25/2007	7/27/2007	7/27/2007	7/27/2007	7/27/2007
			Depth: 2 - 4 ft	6.5 - 8 ft	6.5 - 8 ft Duplicate	10 - 13 ft	2 - 4 ft
Pesticides (Cont'd.)							
Methoxychlor	mg/kg	NC	0.0035 J	--	--	0.0039 U	--
Toxaphene	mg/kg	NC	0.093 U	--	--	0.079 U	--
PCBs							
Aroclor-1016 (PCB-1016)	mg/kg	25	0.023 U	--	--	0.02 U	--
Aroclor-1221 (PCB-1221)	mg/kg	25	0.023 U	--	--	0.02 U	--
Aroclor-1232 (PCB-1232)	mg/kg	25	0.023 U	--	--	0.02 U	--
Aroclor-1242 (PCB-1242)	mg/kg	25	0.023 U	--	--	0.02 U	--
Aroclor-1248 (PCB-1248)	mg/kg	25	0.023 U	--	--	0.02 U	--
Aroclor-1254 (PCB-1254)	mg/kg	25	0.03	--	--	0.02 U	--
Aroclor-1260 (PCB-1260)	mg/kg	25	0.018 J	--	--	0.02 U	--
Wet Chemistry							
Cyanide (total)	mg/kg	10000	0.29 J	--	--	0.60 U	--
Total Solids	%	NC	72.4	80.7	75.2	83.8	81

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	Units [1]	6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial	Location ID: SB-5-07	Location ID: SB-6-07	Location ID: SB-6-07	Location ID: SB-7-07	Location ID: SB-8-07
			Sample Name: SO-37191-072507-RN-SB-05	Sample Name: SO-37191-073007-CB-SB6	Sample Name: SO-37191-073007-CB-SB19	Sample Name: SO-37191-072507-RN-SB-7	Sample Name: SO-37191-072507-RN-SB-8
			Sample Date: 7/25/2007	Sample Date: 7/30/2007	Sample Date: 7/30/2007	Sample Date: 7/25/2007	Sample Date: 7/25/2007
			Depth: 4 - 8 ft	Depth: 6 - 10.4 ft	Depth: 6 - 10.4 ft Duplicate	Depth: 3 - 6 ft	Depth: 3.5 - 8 ft
Volatile Organic Compounds							
1,1,1-Trichloroethane	mg/kg	1000	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
1,1,2,2-Tetrachloroethane	mg/kg	NC	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
1,1,2-Trichloroethane	mg/kg	NC	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
1,1-Dichloroethane	mg/kg	480	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
1,1-Dichloroethene	mg/kg	1000	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
1,2,4-Trichlorobenzene	mg/kg	NC	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	NC	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	NC	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
1,2-Dichlorobenzene	mg/kg	1000	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
1,2-Dichloroethane	mg/kg	60	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
1,2-Dichloropropane	mg/kg	NC	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
1,3-Dichlorobenzene	mg/kg	560	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
1,4-Dichlorobenzene	mg/kg	250	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	1000	0.006 U	0.28 U	0.12 J	0.4 U	0.0061 U
2-Hexanone	mg/kg	NC	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	NC	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
Acetone	mg/kg	1000	0.024 U	1.1 U	1.1 U	1.6 UJ	0.025 UJ
Benzene	mg/kg	89	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
Bromodichloromethane	mg/kg	NC	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
Bromoform	mg/kg	NC	0.006 UJ	0.28 U	0.28 U	0.4 U	0.0061 UJ
Bromomethane (Methyl Bromide)	mg/kg	NC	0.006 UJ	0.28 U	0.28 U	0.4 U	0.0061 UJ
Carbon disulfide	mg/kg	NC	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
Carbon tetrachloride	mg/kg	44	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
Chlorobenzene	mg/kg	1000	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
Chloroethane	mg/kg	NC	0.006 UJ	0.28 U	0.28 U	0.4 U	0.0061 UJ
Chloroform (Trichloromethane)	mg/kg	700	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
Chloromethane (Methyl Chloride)	mg/kg	NC	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
cis-1,2-Dichloroethene	mg/kg	1000	0.012	0.066 J	0.091 J	0.3 J	0.0028 J
cis-1,3-Dichloropropene	mg/kg	NC	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
Cyclohexane	mg/kg	NC	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
Dibromochloromethane	mg/kg	NC	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
Dichlorodifluoromethane (CFC-12)	mg/kg	NC	0.006 U	0.28 U	0.28 U	0.4 UJ	0.0061 U
Ethylbenzene	mg/kg	780	0.006 U	0.28 U	0.2 J	0.4 U	0.0061 U
Isopropylbenzene	mg/kg	NC	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
Methyl acetate	mg/kg	NC	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	Units [1]	6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial	Location ID: SB-5-07	SB-6-07	SB-6-07	SB-7-07	SB-8-07
			Sample Name: SO-37191-072507-RN-SB-05	SO-37191-073007-CB-SB6	SO-37191-073007-CB-SB19	SO-37191-072507-RN-SB-7	SO-37191-072507-RN-SB-8
			Sample Date: 7/25/2007	7/30/2007	7/30/2007	7/25/2007	7/25/2007
			Depth: 4 - 8 ft	6 - 10.4 ft	6 - 10.4 ft Duplicate	3 - 6 ft	3.5 - 8 ft
Volatiles (Cont'd.)							
Methyl cyclohexane	mg/kg	NC	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
Methyl Tert Butyl Ether	mg/kg	1000	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
Methylene chloride	mg/kg	1000	0.006 U	0.28 U	0.38 U	0.4 U	0.0061 U
Styrene	mg/kg	NC	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
Tetrachloroethene	mg/kg	300	0.006 U	0.086 J	0.18 J	0.4 U	0.0061 U
Toluene	mg/kg	1000	0.006 U	0.079 J	0.4	0.4 U	0.0061 U
trans-1,2-Dichloroethene	mg/kg	1000	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
trans-1,3-Dichloropropene	mg/kg	NC	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
Trichloroethene	mg/kg	400	0.083	0.5	0.51	6.8	0.058
Trichlorofluoromethane (CFC-11)	mg/kg	NC	0.006 UJ	0.28 U	0.28 U	0.4 U	0.0061 U
Trifluorotrichloroethane (Freon 113)	mg/kg	NC	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
Vinyl chloride	mg/kg	27	0.006 U	0.28 U	0.28 U	0.4 U	0.0061 U
Xylene (total)	mg/kg	1000	0.018 U	0.84 U	0.79 J	1.2 U	0.018 U
Semi-Volatile Organic Compounds							
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/kg	NC	0.081 U	0.074 U	0.075 U	0.21 U	0.082 U
2,4,5-Trichlorophenol	mg/kg	NC	0.4 U	0.37 U	0.37 U	1.1 U	0.41 U
2,4,6-Trichlorophenol	mg/kg	NC	0.4 U	0.37 U	0.37 U	1.1 U	0.41 U
2,4-Dichlorophenol	mg/kg	NC	0.081 U	0.074 U	0.075 U	0.21 U	0.082 U
2,4-Dimethylphenol	mg/kg	NC	0.4 U	0.37 U	0.37 U	0.1 J	0.41 U
2,4-Dinitrophenol	mg/kg	NC	2 UJ	1.9 UJ	1.9 UJ	5.3 UJ	2.1 UJ
2,4-Dinitrotoluene	mg/kg	NC	0.4 U	0.37 U	0.37 U	1.1 U	0.41 U
2,6-Dinitrotoluene	mg/kg	NC	0.4 U	0.37 U	0.37 U	1.1 U	0.41 U
2-Chloronaphthalene	mg/kg	NC	0.081 U	0.074 U	0.075 U	0.21 U	0.082 U
2-Chlorophenol	mg/kg	NC	0.4 U	0.37 U	0.37 U	1.1 U	0.41 U
2-Methylnaphthalene	mg/kg	NC	0.081 U	0.045 J	0.075 U	0.9	0.074 J
2-Methylphenol	mg/kg	1000	0.4 U	0.37 U	0.37 U	1.1 U	0.41 U
2-Nitroaniline	mg/kg	NC	2 U	1.9 U	1.9 U	5.3 U	2.1 U
2-Nitrophenol	mg/kg	NC	0.4 U	0.37 U	0.37 U	1.1 U	0.41 U
3,3'-Dichlorobenzidine	mg/kg	NC	0.4 U	0.37 U	0.37 U	1.1 U	0.41 U
3-Nitroaniline	mg/kg	NC	2 U	1.9 U	1.9 U	5.3 U	2.1 U
4,6-Dinitro-2-methylphenol	mg/kg	NC	1.9 U	1.7 U	1.7 U	5 U	1.9 U
4-Bromophenyl phenyl ether	mg/kg	NC	0.4 U	0.37 U	0.37 U	1.1 U	0.41 U
4-Chloro-3-methylphenol	mg/kg	NC	0.4 U	0.37 U	0.37 U	1.1 U	0.41 U

ANALYTICAL RESULTS SUMMARY
SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	Units [1]	6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial	Location ID: SB-5-07	Location ID: SB-6-07	Location ID: SB-6-07	Location ID: SB-7-07	Location ID: SB-8-07
			Sample Name: SO-37191-072507-RN-SB-05	Sample Name: SO-37191-073007-CB-SB6	Sample Name: SO-37191-073007-CB-SB19	Sample Name: SO-37191-072507-RN-SB-7	Sample Name: SO-37191-072507-RN-SB-8
			Sample Date: 7/25/2007	Sample Date: 7/30/2007	Sample Date: 7/30/2007	Sample Date: 7/25/2007	Sample Date: 7/25/2007
			Depth: 4 - 8 ft	Depth: 6 - 10.4 ft	Depth: 6 - 10.4 ft Duplicate	Depth: 3 - 6 ft	Depth: 3.5 - 8 ft
Semi-Volatiles (Cont'd.)							
4-Chloroaniline	mg/kg	NC	0.4 U	0.37 U	0.37 U	1.1 U	0.41 U
4-Chlorophenyl phenyl ether	mg/kg	NC	0.4 U	0.37 U	0.37 U	1.1 U	0.41 U
4-Methylphenol	mg/kg	1000	0.4 U	0.37 U	0.37 U	0.19 J	0.41 U
4-Nitroaniline	mg/kg	NC	2 U	1.9 U	1.9 U	5.3 U	2.1 U
4-Nitrophenol	mg/kg	NC	2 U	1.9 U	1.9 U	5.3 U	2.1 U
Acenaphthene	mg/kg	1000	0.081 U	0.096	0.041 J	0.69	0.032 J
Acenaphthylene	mg/kg	1000	0.081 U	0.074 U	0.075 U	4.5	0.029 J
Acetophenone	mg/kg	NC	0.4 U	0.37 U	0.37 U	1.1 U	0.41 U
Anthracene	mg/kg	1000	0.081 U	0.22	0.089	6	0.29
Atrazine	mg/kg	NC	0.4 UJ	0.37 UJ	0.37 U	1.1 UJ	0.41 UJ
Benzaldehyde	mg/kg	NC	0.4 UJ	0.37 U	0.37 UJ	1.1 UJ	0.41 UJ
Benzo(a)anthracene	mg/kg	11	0.081 U	0.37	0.2	**15**	0.82
Benzo(a)pyrene	mg/kg	1.1	0.081 U	0.28	0.15	**14**	0.69
Benzo(b)fluoranthene	mg/kg	11	0.081 U	0.48	0.2	**17**	0.91
Benzo(g,h,i)perylene	mg/kg	1000	0.081 U	0.15	0.095	9.2	0.56
Benzo(k)fluoranthene	mg/kg	110	0.081 U	0.074 U	0.085	4.5	0.31
Biphenyl	mg/kg	NC	0.4 U	0.37 U	0.37 U	0.22 J	0.41 U
bis(2-Chloroethoxy)methane	mg/kg	NC	0.4 U	0.37 U	0.37 U	1.1 U	0.41 U
bis(2-Chloroethyl)ether	mg/kg	NC	0.081 U	0.074 U	0.075 U	0.21 U	0.082 U
bis(2-Ethylhexyl)phthalate	mg/kg	NC	0.1 J	0.37 U	0.098 J	1.1 U	0.41 U
Butyl benzylphthalate	mg/kg	NC	0.4 U	0.37 U	0.37 U	1.1 U	0.41 U
Caprolactam	mg/kg	NC	0.4 U	0.37 U	0.37 U	1.1 U	0.41 U
Carbazole	mg/kg	NC	0.081 U	0.12	0.044 J	1.1	0.087
Chrysene	mg/kg	110	0.081 U	0.33	0.19	13	0.79
Dibenz(a,h)anthracene	mg/kg	1.1	0.081 U	0.074 U	0.075 U	**2.4**	0.14
Dibenzofuran	mg/kg	1000	0.4 U	0.1 J	0.04 J	1.6	0.043 J
Diethyl phthalate	mg/kg	NC	0.4 U	0.37 U	0.37 U	0.29 J	0.41 U
Dimethyl phthalate	mg/kg	NC	0.4 U	0.37 U	0.37 U	1.1 U	0.41 U
Di-n-butylphthalate	mg/kg	NC	0.4 U	0.37 U	0.37 U	0.2 J	1
Di-n-octyl phthalate	mg/kg	NC	0.4 U	0.37 U	0.37 U	1.1 U	0.41 U
Fluoranthene	mg/kg	1000	0.081 U	0.96	0.44	30	1.4
Fluorene	mg/kg	1000	0.081 U	0.12	0.053 J	2.5	0.06 J
Hexachlorobenzene	mg/kg	12	0.081 U	0.074 U	0.075 U	0.21 U	0.082 U
Hexachlorobutadiene	mg/kg	NC	0.081 U	0.074 U	0.075 U	0.21 U	0.082 U
Hexachlorocyclopentadiene	mg/kg	NC	0.4 U	0.37 U	0.37 U	1.1 U	0.41 U

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	Units [1]	6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial	Location ID: SB-5-07	SB-6-07	SB-6-07	SB-7-07	SB-8-07
			Sample Name: SO-37191-072507-RN-SB-05	SO-37191-073007-CB-SB6	SO-37191-073007-CB-SB19	SO-37191-072507-RN-SB-7	SO-37191-072507-RN-SB-8
			Sample Date: 7/25/2007	7/30/2007	7/30/2007	7/25/2007	7/25/2007
			Depth: 4 - 8 ft	6 - 10.4 ft	6 - 10.4 ft Duplicate	3 - 6 ft	3.5 - 8 ft
Semi-Volatiles (Cont'd.)							
Hexachloroethane	mg/kg	NC	0.4 U	0.37 U	0.37 U	1.1 U	0.41 U
Indeno(1,2,3-cd)pyrene	mg/kg	11	0.081 U	0.12	0.079	8.5	0.48
Isophorone	mg/kg	NC	0.4 U	0.37 U	0.37 U	1.1 U	0.41 U
Naphthalene	mg/kg	1000	0.081 U	0.11	0.037 J	1.4	0.05 J
Nitrobenzene	mg/kg	NC	0.081 U	0.074 U	0.075 U	0.21 U	0.082 U
N-Nitrosodi-n-propylamine	mg/kg	NC	0.081 U	0.074 U	0.075 U	0.21 U	0.082 U
N-Nitrosodiphenylamine	mg/kg	NC	0.4 U	0.37 U	0.37 U	1.1 U	0.41 U
Pentachlorophenol	mg/kg	55	0.4 U	0.37 U	0.37 U	1.1 U	0.41 U
Phenanthrene	mg/kg	1000	0.081 U	0.97	0.44	20	0.93
Phenol	mg/kg	1000	0.081 U	0.074 U	0.075 U	0.21 U	0.082 U
Pyrene	mg/kg	1000	0.081 U	0.78	0.4	26	1.2
Metals							
Aluminum	mg/kg	NC	15800	--	--	--	9450
Antimony	mg/kg	NC	1.2 U	--	--	--	3.0
Arsenic	mg/kg	16	9.7	--	--	--	**21.4**
Barium	mg/kg	10000	132	--	--	--	2310
Beryllium	mg/kg	2700	1.3	--	--	--	0.85
Cadmium	mg/kg	60	0.37 J	--	--	--	1.4
Calcium	mg/kg	NC	2830	--	--	--	15500
Chromium Total [2]	mg/kg	800	23.6	--	--	--	15.8
Cobalt	mg/kg	NC	15.2	--	--	--	5.7 J
Copper	mg/kg	10000	31.2	--	--	--	114
Iron	mg/kg	NC	32500	--	--	--	23200
Lead	mg/kg	3900	14.5	5.1	6.2	46.0	2230
Magnesium	mg/kg	NC	6000	--	--	--	5730
Manganese	mg/kg	10000	602	--	--	--	392
Mercury	mg/kg	5.7	0.022 J	--	--	--	0.48
Nickel	mg/kg	10000	35.1	--	--	--	13.8
Potassium	mg/kg	NC	1650	--	--	--	1060
Selenium	mg/kg	6800	1.2 U	--	--	--	0.86
Silver	mg/kg	6800	0.60 U	--	--	--	189
Sodium	mg/kg	NC	275 J	--	--	--	179 J
Thallium	mg/kg	NC	1.2 U	--	--	--	1.2 U

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	Units [1]	6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial	Location ID: SB-5-07	SB-6-07	SB-6-07	SB-7-07	SB-8-07
			Sample Name: SO-37191-072507-RN-SB-05	SO-37191-073007-CB-SB6	SO-37191-073007-CB-SB19	SO-37191-072507-RN-SB-7	SO-37191-072507-RN-SB-8
			Sample Date: 7/25/2007	7/30/2007	7/30/2007	7/25/2007	7/25/2007
			Depth: 4 - 8 ft	6 - 10.4 ft	6 - 10.4 ft Duplicate	3 - 6 ft	3.5 - 8 ft
Metals (Cont'd.)							
Vanadium	mg/kg	NC	31.4	--	--	--	22.9
Zinc	mg/kg	10000	80.4	--	--	--	305
Herbicides							
2,4,5-T	mg/kg	NC	0.024 U	--	--	--	0.025 U
2,4,5-TP (Silvex)	mg/kg	1000	0.024 U	--	--	--	0.025 U
2,4-DB	mg/kg	NC	0.097 U	--	--	--	0.098 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/kg	NC	0.097 U	--	--	--	0.098 U
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	mg/kg	NC	9.7 U	--	--	--	9.8 U
Dalapon	mg/kg	NC	0.11 U	--	--	--	0.11 U
Dicamba	mg/kg	NC	0.048 U	--	--	--	0.049 U
Dichlorprop	mg/kg	NC	0.097 U	--	--	--	0.098 U
Dinoseb	mg/kg	NC	0.015 U	--	--	--	0.015 U
Mecoprop (MCPP)	mg/kg	NC	9.7 U	--	--	--	9.8 U
Pesticides							
4,4'-DDD	mg/kg	180	0.0021 U	--	--	--	0.0021 U
4,4'-DDE	mg/kg	120	0.0021 U	--	--	--	0.0021 U
4,4'-DDT	mg/kg	94	0.0021 U	--	--	--	0.0021 U
Aldrin	mg/kg	1.4	0.00028 J	--	--	--	0.0021 U
alpha-BHC	mg/kg	6.8	0.0021 U	--	--	--	0.0021 U
alpha-Chlordane	mg/kg	47	0.0021 U	--	--	--	0.0021 U
beta-BHC	mg/kg	14	0.0021 U	--	--	--	0.0021 U
delta-BHC	mg/kg	1000	0.0021 U	--	--	--	0.0021 U
Dieldrin	mg/kg	2.8	0.0021 U	--	--	--	0.0021 U
Endosulfan I	mg/kg	920	0.0021 U	--	--	--	0.0021 U
Endosulfan II	mg/kg	920	0.0021 U	--	--	--	0.0021 U
Endosulfan sulfate	mg/kg	920	0.0021 U	--	--	--	0.0021 U
Endrin	mg/kg	410	0.0021 U	--	--	--	0.0021 U
Endrin aldehyde	mg/kg	NC	0.0021 U	--	--	--	0.0021 U
Endrin ketone	mg/kg	NC	0.0021 U	--	--	--	0.0021 U
gamma-BHC (Lindane)	mg/kg	23	0.0021 U	--	--	--	0.0021 U
gamma-Chlordane	mg/kg	NC	0.0021 U	--	--	--	0.0021 U
Heptachlor	mg/kg	29	0.0021 U	--	--	--	0.0021 U
Heptachlor epoxide	mg/kg	NC	0.0021 U	--	--	--	0.0021 U

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	*Units* [1]	*6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial*	*Location ID:* SB-5-07	*Location ID:* SB-6-07	*Location ID:* SB-6-07	*Location ID:* SB-7-07	*Location ID:* SB-8-07
			Sample Name: SO-37191-072507-RN-SB-05	*Sample Name:* SO-37191-073007-CB-SB6	*Sample Name:* SO-37191-073007-CB-SB19	*Sample Name:* SO-37191-072507-RN-SB-7	*Sample Name:* SO-37191-072507-RN-SB-8
			Sample Date: 7/25/2007	*Sample Date:* 7/30/2007	*Sample Date:* 7/30/2007	*Sample Date:* 7/25/2007	*Sample Date:* 7/25/2007
			Depth: 4 - 8 ft	*Depth:* 6 - 10.4 ft	*Depth:* 6 - 10.4 ft Duplicate	*Depth:* 3 - 6 ft	*Depth:* 3.5 - 8 ft
Pesticides (Cont'd.)							
Methoxychlor	mg/kg	NC	0.004 U	--	--	--	0.0041 U
Toxaphene	mg/kg	NC	0.081 U	--	--	--	0.082 U
PCBs							
Aroclor-1016 (PCB-1016)	mg/kg	25	0.02 U	--	--	--	0.02 U
Aroclor-1221 (PCB-1221)	mg/kg	25	0.02 U	--	--	--	0.02 U
Aroclor-1232 (PCB-1232)	mg/kg	25	0.02 U	--	--	--	0.02 U
Aroclor-1242 (PCB-1242)	mg/kg	25	0.02 U	--	--	--	0.02 U
Aroclor-1248 (PCB-1248)	mg/kg	25	0.02 U	--	--	--	0.02 U
Aroclor-1254 (PCB-1254)	mg/kg	25	0.02 U	--	--	--	0.02 U
Aroclor-1260 (PCB-1260)	mg/kg	25	0.02 U	--	--	--	0.02 U
Wet Chemistry							
Cyanide (total)	mg/kg	10000	0.60 U	--	--	--	0.23 J
Total Solids	%	NC	82.7	89.1	89.9	62.6	81.4

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

		Location ID:	*SB-9-07*	*SB-10-07*	*SB-11-07*	*SB-12-07*
		Sample Name:	*SO-37191-072507-RN-SB-9*	*SO-37191-072507-RN-SB-10*	*SO-37191-072607-RN-SB-11*	*SO-37191-072607-RN-SB-12*
		Sample Date:	*7/25/2007*	*7/25/2007*	*7/26/2007*	*7/26/2007*
		Depth:	*3 - 6 ft*	*3 - 8 ft*	*2 - 6 ft*	*3.5 - 6 ft*
Parameters	*Units* [1]	*6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial*				
Volatile Organic Compounds						
1,1,1-Trichloroethane	mg/kg	1000	0.0061 U	0.0059 U	0.0067 U	0.0062 U
1,1,2,2-Tetrachloroethane	mg/kg	NC	0.0061 U	0.0059 U	0.0067 U	0.0062 U
1,1,2-Trichloroethane	mg/kg	NC	0.0061 U	0.0059 U	0.0067 U	0.0062 U
1,1-Dichloroethane	mg/kg	480	0.0061 U	0.0059 U	0.0067 U	0.0062 U
1,1-Dichloroethene	mg/kg	1000	0.0061 U	0.0059 U	0.0067 U	0.0062 U
1,2,4-Trichlorobenzene	mg/kg	NC	0.0061 U	0.0059 U	0.0067 U	0.0062 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	NC	0.0061 U	0.0059 U	0.0067 U	0.0062 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	NC	0.0061 U	0.0059 U	0.0067 U	0.0062 U
1,2-Dichlorobenzene	mg/kg	1000	0.0061 U	0.0059 U	0.0067 U	0.0062 U
1,2-Dichloroethane	mg/kg	60	0.0061 U	0.0059 U	0.0067 U	0.0062 U
1,2-Dichloropropane	mg/kg	NC	0.0061 U	0.0059 U	0.0067 U	0.0062 U
1,3-Dichlorobenzene	mg/kg	560	0.0061 U	0.0059 U	0.0067 U	0.0062 U
1,4-Dichlorobenzene	mg/kg	250	0.0061 U	0.0059 U	0.0067 U	0.0062 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	1000	0.0061 U	0.0059 U	0.0067 U	0.0062 U
2-Hexanone	mg/kg	NC	0.0061 U	0.0059 U	0.0067 U	0.0062 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	NC	0.0061 U	0.0059 U	0.0067 U	0.0062 U
Acetone	mg/kg	1000	0.024 U	0.012 J	0.027 U	0.0085 J
Benzene	mg/kg	89	0.0061 U	0.0059 U	0.0067 U	0.0062 U
Bromodichloromethane	mg/kg	NC	0.0061 U	0.0059 U	0.0067 U	0.0062 U
Bromoform	mg/kg	NC	0.0061 UJ	0.0059 UJ	0.0067 UJ	0.0062 UJ
Bromomethane (Methyl Bromide)	mg/kg	NC	0.0061 UJ	0.0059 UJ	0.0067 UJ	0.0062 UJ
Carbon disulfide	mg/kg	NC	0.0061 U	0.0059 U	0.0067 U	0.0062 U
Carbon tetrachloride	mg/kg	44	0.0061 U	0.0059 U	0.0067 U	0.0062 U
Chlorobenzene	mg/kg	1000	0.0061 U	0.0059 U	0.0067 U	0.0062 U
Chloroethane	mg/kg	NC	0.0061 UJ	0.0059 UJ	0.0067 UJ	0.0062 UJ
Chloroform (Trichloromethane)	mg/kg	700	0.0061 U	0.0059 U	0.0067 U	0.0062 U
Chloromethane (Methyl Chloride)	mg/kg	NC	0.0061 U	0.0059 U	0.0067 U	0.0062 U
cis-1,2-Dichloroethene	mg/kg	1000	0.025	0.0059 U	0.035	0.031
cis-1,3-Dichloropropene	mg/kg	NC	0.0061 U	0.0059 U	0.0067 U	0.0062 U
Cyclohexane	mg/kg	NC	0.0061 U	0.0059 U	0.0067 U	0.0062 U
Dibromochloromethane	mg/kg	NC	0.0061 U	0.0059 U	0.0067 U	0.0062 U
Dichlorodifluoromethane (CFC-12)	mg/kg	NC	0.0061 U	0.0059 U	0.0067 U	0.0062 U
Ethylbenzene	mg/kg	780	0.0061 U	0.0059 U	0.0067 U	0.0062 U
Isopropylbenzene	mg/kg	NC	0.0061 U	0.0059 U	0.0067 U	0.0062 U
Methyl acetate	mg/kg	NC	0.0061 U	0.0059 U	0.0067 U	0.0062 U

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	Units [1]	6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial	Location ID: SB-9-07	SB-10-07	SB-11-07	SB-12-07
			Sample Name: SO-37191-072507-RN-SB-9	SO-37191-072507-RN-SB-10	SO-37191-072607-RN-SB-11	SO-37191-072607-RN-SB-12
			Sample Date: 7/25/2007	7/25/2007	7/26/2007	7/26/2007
			Depth: 3 - 6 ft	3 - 8 ft	2 - 6 ft	3.5 - 6 ft
Volatiles (Cont'd.)						
Methyl cyclohexane	mg/kg	NC	0.0061 U	0.0059 U	0.0067 U	0.0062 U
Methyl Tert Butyl Ether	mg/kg	1000	0.0061 U	0.0059 U	0.0067 U	0.0062 U
Methylene chloride	mg/kg	1000	0.0061 U	0.0059 U	0.0067 U	0.0062 U
Styrene	mg/kg	NC	0.0061 U	0.0059 U	0.0067 U	0.0062 U
Tetrachloroethene	mg/kg	300	0.0061 U	0.0059 U	0.037	0.0062 U
Toluene	mg/kg	1000	0.0061 U	0.0059 U	0.0067 U	0.0062 U
trans-1,2-Dichloroethene	mg/kg	1000	0.0061 U	0.0059 U	0.0067 U	0.0062 U
trans-1,3-Dichloropropene	mg/kg	NC	0.0061 U	0.0059 U	0.0067 U	0.0062 U
Trichloroethene	mg/kg	400	0.076	0.0017 J	0.21	0.035
Trichlorofluoromethane (CFC-11)	mg/kg	NC	0.0061 UJ	0.0059 UJ	0.0067 UJ	0.0062 UJ
Trifluorotrichloroethane (Freon 113)	mg/kg	NC	0.0061 U	0.0059 U	0.0067 U	0.0062 U
Vinyl chloride	mg/kg	27	0.0061 U	0.0059 U	0.0067 U	0.0062 U
Xylene (total)	mg/kg	1000	0.018 U	0.018 U	0.02 U	0.019 U
Semi-Volatile Organic Compounds						
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/kg	NC	0.082 U	0.079 U	0.089 U	0.083 U
2,4,5-Trichlorophenol	mg/kg	NC	0.4 U	0.39 U	0.44 U	0.41 U
2,4,6-Trichlorophenol	mg/kg	NC	0.4 U	0.39 U	0.44 U	0.41 U
2,4-Dichlorophenol	mg/kg	NC	0.082 U	0.079 U	0.089 U	0.083 U
2,4-Dimethylphenol	mg/kg	NC	0.4 U	0.39 U	0.44 U	0.41 U
2,4-Dinitrophenol	mg/kg	NC	2 UJ	2 UJ	2.2 UJ	2.1 UJ
2,4-Dinitrotoluene	mg/kg	NC	0.4 U	0.39 U	0.44 U	0.41 U
2,6-Dinitrotoluene	mg/kg	NC	0.4 U	0.39 U	0.44 U	0.41 U
2-Chloronaphthalene	mg/kg	NC	0.082 U	0.079 U	0.089 U	0.083 U
2-Chlorophenol	mg/kg	NC	0.4 U	0.39 U	0.44 U	0.41 U
2-Methylnaphthalene	mg/kg	NC	0.082 U	0.079 U	0.089 U	0.083 U
2-Methylphenol	mg/kg	1000	0.4 U	0.39 U	0.44 U	0.41 U
2-Nitroaniline	mg/kg	NC	2 U	2 U	2.2 U	2.1 U
2-Nitrophenol	mg/kg	NC	0.4 U	0.39 U	0.44 U	0.41 U
3,3'-Dichlorobenzidine	mg/kg	NC	0.4 U	0.39 U	0.44 U	0.41 U
3-Nitroaniline	mg/kg	NC	2 U	2 U	2.2 U	2.1 U
4,6-Dinitro-2-methylphenol	mg/kg	NC	1.9 U	1.8 U	2.1 U	2 U
4-Bromophenyl phenyl ether	mg/kg	NC	0.4 U	0.39 U	0.44 U	0.41 U
4-Chloro-3-methylphenol	mg/kg	NC	0.4 U	0.39 U	0.44 U	0.41 U

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

	Location ID:	*SB-9-07*	*SB-10-07*	*SB-11-07*	*SB-12-07*
	Sample Name:	*SO-37191-072507-RN-SB-9*	*SO-37191-072507-RN-SB-10*	*SO-37191-072607-RN-SB-11*	*SO-37191-072607-RN-SB-12*
	Sample Date:	*7/25/2007*	*7/25/2007*	*7/26/2007*	*7/26/2007*
	Depth:	*3 - 6 ft*	*3 - 8 ft*	*2 - 6 ft*	*3.5 - 6 ft*
Parameters	*Units* [1]	*6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial*			
Semi-Volatiles (Cont'd.)					
4-Chloroaniline	mg/kg	NC	0.4 U	0.39 U	0.44 U	0.41 U
4-Chlorophenyl phenyl ether	mg/kg	NC	0.4 U	0.39 U	0.44 U	0.41 U
4-Methylphenol	mg/kg	1000	0.4 U	0.39 U	0.44 U	0.41 U
4-Nitroaniline	mg/kg	NC	2 U	2 U	2.2 U	2.1 U
4-Nitrophenol	mg/kg	NC	2 U	2 U	2.2 U	2.1 U
Acenaphthene	mg/kg	1000	0.082 U	0.079 U	0.027 J	0.083 U
Acenaphthylene	mg/kg	1000	0.082 U	0.079 U	0.089 U	0.083 U
Acetophenone	mg/kg	NC	0.4 U	0.39 U	0.44 U	0.41 U
Anthracene	mg/kg	1000	0.082 U	0.028 J	0.2	0.083 U
Atrazine	mg/kg	NC	0.4 UJ	0.39 UJ	0.44 UJ	0.41 UJ
Benzaldehyde	mg/kg	NC	0.4 UJ	0.39 UJ	0.44 UJ	0.41 UJ
Benzo(a)anthracene	mg/kg	11	0.04 J	0.09	0.78	0.083 U
Benzo(a)pyrene	mg/kg	1.1	0.053 J	0.085	0.78	0.083 U
Benzo(b)fluoranthene	mg/kg	11	0.071 J	0.11	0.93	0.083 U
Benzo(g,h,i)perylene	mg/kg	1000	0.059 J	0.085	0.68	0.083 U
Benzo(k)fluoranthene	mg/kg	110	0.024 J	0.045 J	0.3	0.083 U
Biphenyl	mg/kg	NC	0.4 U	0.39 U	0.44 U	0.41 U
bis(2-Chloroethoxy)methane	mg/kg	NC	0.4 U	0.39 U	0.44 U	0.41 U
bis(2-Chloroethyl)ether	mg/kg	NC	0.082 U	0.079 U	0.089 U	0.083 U
bis(2-Ethylhexyl)phthalate	mg/kg	NC	0.082 J	0.087 J	0.44 U	0.11 J
Butyl benzylphthalate	mg/kg	NC	0.4 U	0.39 U	0.44 U	0.41 U
Caprolactam	mg/kg	NC	0.4 U	0.39 U	0.44 U	0.41 U
Carbazole	mg/kg	NC	0.082 U	0.079 U	0.042 J	0.083 U
Chrysene	mg/kg	110	0.045 J	0.087	0.7	0.083 U
Dibenz(a,h)anthracene	mg/kg	1.1	0.082 U	0.079 U	0.09	0.083 U
Dibenzofuran	mg/kg	1000	0.4 U	0.39 U	0.03 J	0.41 U
Diethyl phthalate	mg/kg	NC	0.4 U	0.39 U	0.26 J	0.41 U
Dimethyl phthalate	mg/kg	NC	0.4 U	0.39 U	0.44 U	0.41 U
Di-n-butylphthalate	mg/kg	NC	0.4 U	0.39 U	0.44 U	0.41 U
Di-n-octyl phthalate	mg/kg	NC	0.4 U	0.39 U	0.44 U	0.41 U
Fluoranthene	mg/kg	1000	0.054 J	0.15	1.3	0.083 U
Fluorene	mg/kg	1000	0.082 U	0.079 U	0.034 J	0.083 U
Hexachlorobenzene	mg/kg	12	0.082 U	0.079 U	0.089 U	0.083 U
Hexachlorobutadiene	mg/kg	NC	0.082 U	0.079 U	0.089 U	0.083 U
Hexachlorocyclopentadiene	mg/kg	NC	0.4 U	0.39 U	0.44 U	0.41 U

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	Units [1]	6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial	Location ID: SB-9-07	SB-10-07	SB-11-07	SB-12-07
			Sample Name: SO-37191-072507-RN-SB-9	SO-37191-072507-RN-SB-10	SO-37191-072607-RN-SB-11	SO-37191-072607-RN-SB-12
			Sample Date: 7/25/2007	7/25/2007	7/26/2007	7/26/2007
			Depth: 3 - 6 ft	3 - 8 ft	2 - 6 ft	3.5 - 6 ft
Semi-Volatiles (Cont'd.)						
Hexachloroethane	mg/kg	NC	0.4 U	0.39 U	0.44 U	0.41 U
Indeno(1,2,3-cd)pyrene	mg/kg	11	0.049 J	0.076 J	0.55	0.083 U
Isophorone	mg/kg	NC	0.4 U	0.39 U	0.44 U	0.41 U
Naphthalene	mg/kg	1000	0.082 U	0.079 U	0.024 J	0.083 U
Nitrobenzene	mg/kg	NC	0.082 U	0.079 U	0.089 U	0.083 U
N-Nitrosodi-n-propylamine	mg/kg	NC	0.082 U	0.079 U	0.089 U	0.083 U
N-Nitrosodiphenylamine	mg/kg	NC	0.4 U	0.39 U	0.44 U	0.41 U
Pentachlorophenol	mg/kg	55	0.4 U	0.39 U	0.44 U	0.41 U
Phenanthrene	mg/kg	1000	0.032 J	0.1	0.6	0.083 U
Phenol	mg/kg	1000	0.082 U	0.079 U	0.089 U	0.083 U
Pyrene	mg/kg	1000	0.054 J	0.13	1.3	0.083 U
Metals						
Aluminum	mg/kg	NC	--	--	--	11300
Antimony	mg/kg	NC	--	--	--	1.2 U
Arsenic	mg/kg	16	--	--	--	4.2
Barium	mg/kg	10000	--	--	--	107
Beryllium	mg/kg	2700	--	--	--	0.79
Cadmium	mg/kg	60	--	--	--	0.36 J
Calcium	mg/kg	NC	--	--	--	89800
Chromium Total [2]	mg/kg	800	--	--	--	16.5
Cobalt	mg/kg	NC	--	--	--	7.8
Copper	mg/kg	10000	--	--	--	18.5
Iron	mg/kg	NC	--	--	--	17500
Lead	mg/kg	3900	25.6	196	2160	8.2
Magnesium	mg/kg	NC	--	--	--	15500
Manganese	mg/kg	10000	--	--	--	343
Mercury	mg/kg	5.7	--	--	--	0.041 U
Nickel	mg/kg	10000	--	--	--	19.8
Potassium	mg/kg	NC	--	--	--	2320
Selenium	mg/kg	6800	--	--	--	0.62 U
Silver	mg/kg	6800	--	--	--	0.62 U
Sodium	mg/kg	NC	--	--	--	239 J
Thallium	mg/kg	NC	--	--	--	1.2 U

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	Units [1]	6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial	Location ID: SB-9-07	Location ID: SB-10-07	Location ID: SB-11-07	Location ID: SB-12-07
			Sample Name: SO-37191-072507-RN-SB-9	Sample Name: SO-37191-072507-RN-SB-10	Sample Name: SO-37191-072607-RN-SB-11	Sample Name: SO-37191-072607-RN-SB-12
			Sample Date: 7/25/2007	Sample Date: 7/25/2007	Sample Date: 7/26/2007	Sample Date: 7/26/2007
			Depth: 3 - 6 ft	Depth: 3 - 8 ft	Depth: 2 - 6 ft	Depth: 3.5 - 6 ft
Metals (Cont'd.)						
Vanadium	mg/kg	NC	--	--	--	22.1
Zinc	mg/kg	10000	--	--	--	46.2
Herbicides						
2,4,5-T	mg/kg	NC	--	--	--	0.025 U
2,4,5-TP (Silvex)	mg/kg	1000	--	--	--	0.025 U
2,4-DB	mg/kg	NC	--	--	--	0.099 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/kg	NC	--	--	--	0.099 U
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	mg/kg	NC	--	--	--	9.9 U
Dalapon	mg/kg	NC	--	--	--	0.11 U
Dicamba	mg/kg	NC	--	--	--	0.05 U
Dichlorprop	mg/kg	NC	--	--	--	0.099 U
Dinoseb	mg/kg	NC	--	--	--	0.015 U
Mecoprop (MCPP)	mg/kg	NC	--	--	--	9.9 U
Pesticides						
4,4'-DDD	mg/kg	180	--	--	--	0.0021 U
4,4'-DDE	mg/kg	120	--	--	--	0.0021 U
4,4'-DDT	mg/kg	94	--	--	--	0.0021 U
Aldrin	mg/kg	1.4	--	--	--	0.0021 U
alpha-BHC	mg/kg	6.8	--	--	--	0.0021 U
alpha-Chlordane	mg/kg	47	--	--	--	0.0021 U
beta-BHC	mg/kg	14	--	--	--	0.0021 U
delta-BHC	mg/kg	1000	--	--	--	0.0021 U
Dieldrin	mg/kg	2.8	--	--	--	0.0021 U
Endosulfan I	mg/kg	920	--	--	--	0.0021 U
Endosulfan II	mg/kg	920	--	--	--	0.0021 U
Endosulfan sulfate	mg/kg	920	--	--	--	0.0021 U
Endrin	mg/kg	410	--	--	--	0.0021 U
Endrin aldehyde	mg/kg	NC	--	--	--	0.0021 U
Endrin ketone	mg/kg	NC	--	--	--	0.0021 U
gamma-BHC (Lindane)	mg/kg	23	--	--	--	0.0021 U
gamma-Chlordane	mg/kg	NC	--	--	--	0.0021 U
Heptachlor	mg/kg	29	--	--	--	0.0021 U
Heptachlor epoxide	mg/kg	NC	--	--	--	0.0021 U

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	Units [1]	6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial	Location ID: SB-9-07	Location ID: SB-10-07	Location ID: SB-11-07	Location ID: SB-12-07
			Sample Name: SO-37191-072507-RN-SB-9	Sample Name: SO-37191-072507-RN-SB-10	Sample Name: SO-37191-072607-RN-SB-11	Sample Name: SO-37191-072607-RN-SB-12
			Sample Date: 7/25/2007	Sample Date: 7/25/2007	Sample Date: 7/26/2007	Sample Date: 7/26/2007
			Depth: 3 - 6 ft	Depth: 3 - 8 ft	Depth: 2 - 6 ft	Depth: 3.5 - 6 ft
Pesticides (Cont'd.)						
Methoxychlor	mg/kg	NC	--	--	--	0.0041 U
Toxaphene	mg/kg	NC	--	--	--	0.083 U
PCBs						
Aroclor-1016 (PCB-1016)	mg/kg	25	--	--	--	0.021 U
Aroclor-1221 (PCB-1221)	mg/kg	25	--	--	--	0.021 U
Aroclor-1232 (PCB-1232)	mg/kg	25	--	--	--	0.021 U
Aroclor-1242 (PCB-1242)	mg/kg	25	--	--	--	0.021 U
Aroclor-1248 (PCB-1248)	mg/kg	25	--	--	--	0.021 U
Aroclor-1254 (PCB-1254)	mg/kg	25	--	--	--	0.021 U
Aroclor-1260 (PCB-1260)	mg/kg	25	--	--	--	0.021 U
Wet Chemistry						
Cyanide (total)	mg/kg	10000	--	--	--	0.62 U
Total Solids	%	NC	81.8	85.1	75.1	80.5

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

	Location ID:		*SB-13-07*	*SB-14-07*	*SB-15-07*	*SB-16-07*
	Sample Name:		*SO-37191-072607-RN-SB-13*	*SO-37191-072607-RN-SB-14*	*SO-37191-072607-RN-SB-15*	*SO-37191-072607-RN-SB-16*
	Sample Date:		*7/26/2007*	*7/26/2007*	*7/26/2007*	*7/26/2007*
	Depth:		*6 - 8 ft*	*4 - 8 ft*	*4 - 8 ft*	*4 - 8 ft*
Parameters	*Units* [1]	*6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial*				
Volatile Organic Compounds						
1,1,1-Trichloroethane	mg/kg	1000	0.31 U	0.0057 U	0.0061 U	0.0067 U
1,1,2,2-Tetrachloroethane	mg/kg	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U
1,1,2-Trichloroethane	mg/kg	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U
1,1-Dichloroethane	mg/kg	480	0.31 U	0.0057 U	0.0061 U	0.0067 U
1,1-Dichloroethene	mg/kg	1000	0.31 U	0.0057 U	0.0061 U	0.0067 U
1,2,4-Trichlorobenzene	mg/kg	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U
1,2-Dichlorobenzene	mg/kg	1000	0.31 U	0.0057 U	0.0061 U	0.0067 U
1,2-Dichloroethane	mg/kg	60	0.31 U	0.0057 U	0.0061 U	0.0067 U
1,2-Dichloropropane	mg/kg	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U
1,3-Dichlorobenzene	mg/kg	560	0.31 U	0.0057 U	0.0061 U	0.0067 U
1,4-Dichlorobenzene	mg/kg	250	0.31 U	0.0057 U	0.0061 U	0.0067 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	1000	0.31 U	0.0057 U	0.0061 U	0.0067 U
2-Hexanone	mg/kg	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U
Acetone	mg/kg	1000	0.1 J	0.023 UJ	0.024 U	0.027 UJ
Benzene	mg/kg	89	0.31 U	0.0057 U	0.0061 U	0.0067 U
Bromodichloromethane	mg/kg	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U
Bromoform	mg/kg	NC	0.31 U	0.0057 UJ	0.0061 UJ	0.0067 UJ
Bromomethane (Methyl Bromide)	mg/kg	NC	0.31 U	0.0057 UJ	0.0061 UJ	0.0067 UJ
Carbon disulfide	mg/kg	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U
Carbon tetrachloride	mg/kg	44	0.31 U	0.0057 U	0.0061 U	0.0067 U
Chlorobenzene	mg/kg	1000	0.31 U	0.0057 U	0.0061 U	0.0067 U
Chloroethane	mg/kg	NC	0.31 U	0.0057 UJ	0.0061 UJ	0.0067 UJ
Chloroform (Trichloromethane)	mg/kg	700	0.31 U	0.0057 U	0.0061 U	0.0067 U
Chloromethane (Methyl Chloride)	mg/kg	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U
cis-1,2-Dichloroethene	mg/kg	1000	0.71	0.0057 U	0.0061 U	0.0067 U
cis-1,3-Dichloropropene	mg/kg	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U
Cyclohexane	mg/kg	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U
Dibromochloromethane	mg/kg	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U
Dichlorodifluoromethane (CFC-12)	mg/kg	NC	0.31 UJ	0.0057 U	0.0061 U	0.0067 U
Ethylbenzene	mg/kg	780	0.31 U	0.0057 U	0.0061 U	0.0067 U
Isopropylbenzene	mg/kg	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U
Methyl acetate	mg/kg	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	Units [1]	6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial	Location ID: SB-13-07	Location ID: SB-14-07	Location ID: SB-15-07	Location ID: SB-16-07
			Sample Name: SO-37191-072607-RN-SB-13	Sample Name: SO-37191-072607-RN-SB-14	Sample Name: SO-37191-072607-RN-SB-15	Sample Name: SO-37191-072607-RN-SB-16
			Sample Date: 7/26/2007	Sample Date: 7/26/2007	Sample Date: 7/26/2007	Sample Date: 7/26/2007
			Depth: 6 - 8 ft	Depth: 4 - 8 ft	Depth: 4 - 8 ft	Depth: 4 - 8 ft
Volatiles (Cont'd.)						
Methyl cyclohexane	mg/kg	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U
Methyl Tert Butyl Ether	mg/kg	1000	0.31 U	0.0057 U	0.0061 U	0.0067 U
Methylene chloride	mg/kg	1000	0.31 U	0.0057 U	0.0061 U	0.0067 U
Styrene	mg/kg	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U
Tetrachloroethene	mg/kg	300	0.13 J	0.0057 U	0.0061 U	0.0025 J
Toluene	mg/kg	1000	0.15 J	0.0057 U	0.0061 U	0.0067 U
trans-1,2-Dichloroethene	mg/kg	1000	0.31 U	0.0057 U	0.0061 U	0.0067 U
trans-1,3-Dichloropropene	mg/kg	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U
Trichloroethene	mg/kg	400	9.7	0.0022 J	0.037	0.008
Trichlorofluoromethane (CFC-11)	mg/kg	NC	0.31 U	0.0057 U	0.0061 UJ	0.0067 U
Trifluorotrichloroethane (Freon 113)	mg/kg	NC	0.31 U	0.0057 U	0.0061 U	0.0067 U
Vinyl chloride	mg/kg	27	0.31 U	0.0057 U	0.0061 U	0.0067 U
Xylene (total)	mg/kg	1000	0.92 U	0.017 U	0.018 U	0.02 U
Semi-Volatile Organic Compounds						
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/kg	NC	0.082 U	0.077 U	0.082 U	0.09 U
2,4,5-Trichlorophenol	mg/kg	NC	0.4 U	0.38 U	0.4 U	0.44 U
2,4,6-Trichlorophenol	mg/kg	NC	0.4 U	0.38 U	0.4 U	0.44 U
2,4-Dichlorophenol	mg/kg	NC	0.082 U	0.077 U	0.082 U	0.09 U
2,4-Dimethylphenol	mg/kg	NC	0.4 U	0.38 U	0.4 U	0.44 U
2,4-Dinitrophenol	mg/kg	NC	2 UJ	1.9 UJ	2 UJ	2.2 UJ
2,4-Dinitrotoluene	mg/kg	NC	0.4 U	0.38 U	0.4 U	0.44 U
2,6-Dinitrotoluene	mg/kg	NC	0.4 U	0.38 U	0.4 U	0.44 U
2-Chloronaphthalene	mg/kg	NC	0.082 U	0.077 U	0.082 U	0.09 U
2-Chlorophenol	mg/kg	NC	0.4 U	0.38 U	0.4 U	0.44 U
2-Methylnaphthalene	mg/kg	NC	0.082 U	0.077 U	0.082 U	0.09 U
2-Methylphenol	mg/kg	1000	0.4 U	0.38 U	0.4 U	0.44 U
2-Nitroaniline	mg/kg	NC	2 U	1.9 U	2 U	2.2 U
2-Nitrophenol	mg/kg	NC	0.4 U	0.38 U	0.4 U	0.44 U
3,3'-Dichlorobenzidine	mg/kg	NC	0.4 U	0.38 U	0.4 U	0.44 U
3-Nitroaniline	mg/kg	NC	2 U	1.9 U	2 U	2.2 U
4,6-Dinitro-2-methylphenol	mg/kg	NC	1.9 U	1.8 U	1.9 U	2.1 U
4-Bromophenyl phenyl ether	mg/kg	NC	0.4 U	0.38 U	0.4 U	0.44 U
4-Chloro-3-methylphenol	mg/kg	NC	0.4 U	0.38 U	0.4 U	0.44 U

ANALYTICAL RESULTS SUMMARY
SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	Units [1]	6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial	SB-13-07	SB-14-07	SB-15-07	SB-16-07
Location ID:						
Sample Name:			SO-37191-072607-RN-SB-13	SO-37191-072607-RN-SB-14	SO-37191-072607-RN-SB-15	SO-37191-072607-RN-SB-16
Sample Date:			7/26/2007	7/26/2007	7/26/2007	7/26/2007
Depth:			6 - 8 ft	4 - 8 ft	4 - 8 ft	4 - 8 ft
Semi-Volatiles (Cont'd.)						
4-Chloroaniline	mg/kg	NC	0.4 U	0.38 U	0.4 U	0.44 U
4-Chlorophenyl phenyl ether	mg/kg	NC	0.4 U	0.38 U	0.4 U	0.44 U
4-Methylphenol	mg/kg	1000	0.4 U	0.38 U	0.4 U	0.44 U
4-Nitroaniline	mg/kg	NC	2 U	1.9 U	2 U	2.2 U
4-Nitrophenol	mg/kg	NC	2 U	1.9 U	2 U	2.2 U
Acenaphthene	mg/kg	1000	0.082 U	0.077 U	0.082 U	0.09 U
Acenaphthylene	mg/kg	1000	0.082 U	0.077 U	0.082 U	0.09 U
Acetophenone	mg/kg	NC	0.4 U	0.38 U	0.4 U	0.44 U
Anthracene	mg/kg	1000	0.082 U	0.077 U	0.082 U	0.09 U
Atrazine	mg/kg	NC	0.4 U	0.38 U	0.4 UJ	0.44 U
Benzaldehyde	mg/kg	NC	0.4 UJ	0.38 UJ	0.4 UJ	0.44 UJ
Benzo(a)anthracene	mg/kg	11	0.082 U	0.077 U	0.082 U	0.09 U
Benzo(a)pyrene	mg/kg	1.1	0.082 U	0.077 U	0.082 U	0.09 U
Benzo(b)fluoranthene	mg/kg	11	0.082 U	0.077 U	0.082 U	0.09 U
Benzo(g,h,i)perylene	mg/kg	1000	0.082 U	0.077 U	0.082 U	0.09 U
Benzo(k)fluoranthene	mg/kg	110	0.082 U	0.077 U	0.082 U	0.09 U
Biphenyl	mg/kg	NC	0.4 U	0.38 U	0.4 U	0.44 U
bis(2-Chloroethoxy)methane	mg/kg	NC	0.4 U	0.38 U	0.4 U	0.44 U
bis(2-Chloroethyl)ether	mg/kg	NC	0.082 U	0.077 U	0.082 U	0.09 U
bis(2-Ethylhexyl)phthalate	mg/kg	NC	0.051 J	0.38 U	0.4 U	0.44 U
Butyl benzylphthalate	mg/kg	NC	0.4 U	0.38 U	0.4 U	0.44 U
Caprolactam	mg/kg	NC	0.4 U	0.38 U	0.4 U	0.44 U
Carbazole	mg/kg	NC	0.082 U	0.077 U	0.082 U	0.09 U
Chrysene	mg/kg	110	0.082 U	0.077 U	0.082 U	0.09 U
Dibenz(a,h)anthracene	mg/kg	1.1	0.082 U	0.077 U	0.082 U	0.09 U
Dibenzofuran	mg/kg	1000	0.4 U	0.38 U	0.4 U	0.44 U
Diethyl phthalate	mg/kg	NC	0.039 J	0.38 U	0.4 U	0.058 J
Dimethyl phthalate	mg/kg	NC	0.4 U	0.38 U	0.4 U	0.44 U
Di-n-butylphthalate	mg/kg	NC	0.4 U	0.38 U	0.4 U	0.44 U
Di-n-octyl phthalate	mg/kg	NC	0.4 U	0.38 U	0.4 U	0.44 U
Fluoranthene	mg/kg	1000	0.082 U	0.077 U	0.082 U	0.09 U
Fluorene	mg/kg	1000	0.082 U	0.077 U	0.082 U	0.09 U
Hexachlorobenzene	mg/kg	12	0.082 U	0.077 U	0.082 U	0.09 U
Hexachlorobutadiene	mg/kg	NC	0.082 U	0.077 U	0.082 U	0.09 U
Hexachlorocyclopentadiene	mg/kg	NC	0.4 U	0.38 U	0.4 U	0.44 U

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	Units [1]	6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial	Location ID: SB-13-07	Location ID: SB-14-07	Location ID: SB-15-07	Location ID: SB-16-07
			Sample Name: SO-37191-072607-RN-SB-13	Sample Name: SO-37191-072607-RN-SB-14	Sample Name: SO-37191-072607-RN-SB-15	Sample Name: SO-37191-072607-RN-SB-16
			Sample Date: 7/26/2007	Sample Date: 7/26/2007	Sample Date: 7/26/2007	Sample Date: 7/26/2007
			Depth: 6 - 8 ft	Depth: 4 - 8 ft	Depth: 4 - 8 ft	Depth: 4 - 8 ft
Semi-Volatiles (Cont'd.)						
Hexachloroethane	mg/kg	NC	0.4 U	0.38 U	0.4 U	0.44 U
Indeno(1,2,3-cd)pyrene	mg/kg	11	0.082 U	0.077 U	0.082 U	0.09 U
Isophorone	mg/kg	NC	0.4 U	0.38 U	0.4 U	0.44 U
Naphthalene	mg/kg	1000	0.082 U	0.077 U	0.082 U	0.09 U
Nitrobenzene	mg/kg	NC	0.082 U	0.077 U	0.082 U	0.09 U
N-Nitrosodi-n-propylamine	mg/kg	NC	0.082 U	0.077 U	0.082 U	0.09 U
N-Nitrosodiphenylamine	mg/kg	NC	0.4 U	0.38 U	0.4 U	0.44 U
Pentachlorophenol	mg/kg	55	0.4 U	0.38 U	0.4 U	0.44 U
Phenanthrene	mg/kg	1000	0.082 U	0.077 U	0.082 U	0.09 U
Phenol	mg/kg	1000	0.082 U	0.077 U	0.082 U	0.09 U
Pyrene	mg/kg	1000	0.082 U	0.077 U	0.082 U	0.09 U
Metals						
Aluminum	mg/kg	NC	--	--	--	--
Antimony	mg/kg	NC	--	--	--	--
Arsenic	mg/kg	16	--	--	--	--
Barium	mg/kg	10000	--	--	--	--
Beryllium	mg/kg	2700	--	--	--	--
Cadmium	mg/kg	60	--	--	--	--
Calcium	mg/kg	NC	--	--	--	--
Chromium Total [2]	mg/kg	800	--	--	--	--
Cobalt	mg/kg	NC	--	--	--	--
Copper	mg/kg	10000	--	--	--	--
Iron	mg/kg	NC	--	--	--	--
Lead	mg/kg	3900	7.3	4.4	10.5	94.8
Magnesium	mg/kg	NC	--	--	--	--
Manganese	mg/kg	10000	--	--	--	--
Mercury	mg/kg	5.7	--	--	--	--
Nickel	mg/kg	10000	--	--	--	--
Potassium	mg/kg	NC	--	--	--	--
Selenium	mg/kg	6800	--	--	--	--
Silver	mg/kg	6800	--	--	--	--
Sodium	mg/kg	NC	--	--	--	--
Thallium	mg/kg	NC	--	--	--	--

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

	Location ID:	*SB-13-07*	*SB-14-07*	*SB-15-07*	*SB-16-07*
	Sample Name:	*SO-37191-072607-RN-SB-13*	*SO-37191-072607-RN-SB-14*	*SO-37191-072607-RN-SB-15*	*SO-37191-072607-RN-SB-16*
	Sample Date:	*7/26/2007*	*7/26/2007*	*7/26/2007*	*7/26/2007*
	Depth:	*6 - 8 ft*	*4 - 8 ft*	*4 - 8 ft*	*4 - 8 ft*
Parameters	*Units* [1]	*6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial*			
Metals (Cont'd.)					
Vanadium	mg/kg	NC	--	--	--	--
Zinc	mg/kg	10000	--	--	--	--
Herbicides					
2,4,5-T	mg/kg	NC	--	--	--	--
2,4,5-TP (Silvex)	mg/kg	1000	--	--	--	--
2,4-DB	mg/kg	NC	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/kg	NC	--	--	--	--
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	mg/kg	NC	--	--	--	--
Dalapon	mg/kg	NC	--	--	--	--
Dicamba	mg/kg	NC	--	--	--	--
Dichlorprop	mg/kg	NC	--	--	--	--
Dinoseb	mg/kg	NC	--	--	--	--
Mecoprop (MCPP)	mg/kg	NC	--	--	--	--
Pesticides					
4,4'-DDD	mg/kg	180	--	--	--	--
4,4'-DDE	mg/kg	120	--	--	--	--
4,4'-DDT	mg/kg	94	--	--	--	--
Aldrin	mg/kg	1.4	--	--	--	--
alpha-BHC	mg/kg	6.8	--	--	--	--
alpha-Chlordane	mg/kg	47	--	--	--	--
beta-BHC	mg/kg	14	--	--	--	--
delta-BHC	mg/kg	1000	--	--	--	--
Dieldrin	mg/kg	2.8	--	--	--	--
Endosulfan I	mg/kg	920	--	--	--	--
Endosulfan II	mg/kg	920	--	--	--	--
Endosulfan sulfate	mg/kg	920	--	--	--	--
Endrin	mg/kg	410	--	--	--	--
Endrin aldehyde	mg/kg	NC	--	--	--	--
Endrin ketone	mg/kg	NC	--	--	--	--
gamma-BHC (Lindane)	mg/kg	23	--	--	--	--
gamma-Chlordane	mg/kg	NC	--	--	--	--
Heptachlor	mg/kg	29	--	--	--	--
Heptachlor epoxide	mg/kg	NC	--	--	--	--

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

		Location ID:	*SB-13-07*	*SB-14-07*	*SB-15-07*	*SB-16-07*
		Sample Name:	*SO-37191-072607-RN-SB-13*	*SO-37191-072607-RN-SB-14*	*SO-37191-072607-RN-SB-15*	*SO-37191-072607-RN-SB-16*
		Sample Date:	*7/26/2007*	*7/26/2007*	*7/26/2007*	*7/26/2007*
		Depth:	*6 - 8 ft*	*4 - 8 ft*	*4 - 8 ft*	*4 - 8 ft*
Parameters	*Units* [1]	*6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial*				
Pesticides (Cont'd.)						
Methoxychlor	mg/kg	NC	--	--	--	--
Toxaphene	mg/kg	NC	--	--	--	--
PCBs						
Aroclor-1016 (PCB-1016)	mg/kg	25	--	--	--	--
Aroclor-1221 (PCB-1221)	mg/kg	25	--	--	--	--
Aroclor-1232 (PCB-1232)	mg/kg	25	--	--	--	--
Aroclor-1242 (PCB-1242)	mg/kg	25	--	--	--	--
Aroclor-1248 (PCB-1248)	mg/kg	25	--	--	--	--
Aroclor-1254 (PCB-1254)	mg/kg	25	--	--	--	--
Aroclor-1260 (PCB-1260)	mg/kg	25	--	--	--	--
Wet Chemistry						
Cyanide (total)	mg/kg	10000	--	--	--	--
Total Solids	%	NC	81.6	87.3	82.1	74.6

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	Units [1]	6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial	Location ID: SB-17-07	Location ID: SB-17-07	Location ID: SB-18-07
			Sample Name: SO-37191-072707-RN-SB-17	Sample Name: SO-37191-072707-RN-SB-27	Sample Name: SO-37191-073007-CB-SB18
			Sample Date: 7/27/2007	Sample Date: 7/27/2007	Sample Date: 7/30/2007
			Depth: 6 - 10 ft	Depth: 6 - 10 ft Duplicate	Depth: 4 - 7.2 ft
Volatile Organic Compounds					
1,1,1-Trichloroethane	mg/kg	1000	0.0072 U	0.0057 U	0.0052 U
1,1,2,2-Tetrachloroethane	mg/kg	NC	0.0072 U	0.0057 U	0.0052 U
1,1,2-Trichloroethane	mg/kg	NC	0.0072 U	0.0057 U	0.0052 U
1,1-Dichloroethane	mg/kg	480	0.0072 U	0.0057 U	0.0052 U
1,1-Dichloroethene	mg/kg	1000	0.0072 U	0.0019 J	0.0052 U
1,2,4-Trichlorobenzene	mg/kg	NC	0.0072 U	0.0057 U	0.0052 U
1,2-Dibromo-3-chloropropane (DBCP)	mg/kg	NC	0.0072 U	0.0057 U	0.0052 U
1,2-Dibromoethane (Ethylene Dibromide)	mg/kg	NC	0.0072 U	0.0057 U	0.0052 U
1,2-Dichlorobenzene	mg/kg	1000	0.0072 U	0.0057 U	0.0052 U
1,2-Dichloroethane	mg/kg	60	0.0072 U	0.0057 U	0.0052 U
1,2-Dichloropropane	mg/kg	NC	0.0072 U	0.0057 U	0.0052 U
1,3-Dichlorobenzene	mg/kg	560	0.0072 U	0.0057 U	0.0052 U
1,4-Dichlorobenzene	mg/kg	250	0.0072 U	0.0057 U	0.0052 U
2-Butanone (Methyl Ethyl Ketone)	mg/kg	1000	0.0072 U	0.0057 U	0.0052 U
2-Hexanone	mg/kg	NC	0.0072 U	0.0057 U	0.0052 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	mg/kg	NC	0.0072 U	0.0057 U	0.0052 U
Acetone	mg/kg	1000	0.029 U	0.023 U	0.021 U
Benzene	mg/kg	89	0.0072 U	0.0057 U	0.0052 U
Bromodichloromethane	mg/kg	NC	0.0072 U	0.0057 U	0.0052 U
Bromoform	mg/kg	NC	0.0072 UJ	0.0057 UJ	0.0052 UJ
Bromomethane (Methyl Bromide)	mg/kg	NC	0.0072 UJ	0.0057 UJ	0.0052 UJ
Carbon disulfide	mg/kg	NC	0.0072 U	0.0057 U	0.0052 U
Carbon tetrachloride	mg/kg	44	0.0072 U	0.0057 U	0.0052 U
Chlorobenzene	mg/kg	1000	0.0072 U	0.0057 U	0.0052 U
Chloroethane	mg/kg	NC	0.0072 UJ	0.0057 UJ	0.0052 UJ
Chloroform (Trichloromethane)	mg/kg	700	0.0072 U	0.0057 U	0.0052 U
Chloromethane (Methyl Chloride)	mg/kg	NC	0.0072 U	0.0057 U	0.0052 U
cis-1,2-Dichloroethene	mg/kg	1000	0.19	0.23	0.0052 U
cis-1,3-Dichloropropene	mg/kg	NC	0.0072 U	0.0057 U	0.0052 U
Cyclohexane	mg/kg	NC	0.0072 U	0.0057 U	0.0052 U
Dibromochloromethane	mg/kg	NC	0.0072 U	0.0057 U	0.0052 U
Dichlorodifluoromethane (CFC-12)	mg/kg	NC	0.0072 U	0.0057 U	0.0052 U
Ethylbenzene	mg/kg	780	0.0072 U	0.0025 J	0.0052 U
Isopropylbenzene	mg/kg	NC	0.0072 U	0.0057 U	0.0052 U
Methyl acetate	mg/kg	NC	0.0072 U	0.0057 U	0.0052 U

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	Units [1]	6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial	Location ID: SB-17-07 Sample Name: SO-37191-072707-RN-SB-17 Sample Date: 7/27/2007 Depth: 6 - 10 ft	Location ID: SB-17-07 Sample Name: SO-37191-072707-RN-SB-27 Sample Date: 7/27/2007 Depth: 6 - 10 ft Duplicate	Location ID: SB-18-07 Sample Name: SO-37191-073007-CB-SB18 Sample Date: 7/30/2007 Depth: 4 - 7.2 ft
Volatiles (Cont'd.)					
Methyl cyclohexane	mg/kg	NC	0.0072 U	0.0057 U	0.0052 U
Methyl Tert Butyl Ether	mg/kg	1000	0.0072 U	0.0057 U	0.0052 U
Methylene chloride	mg/kg	1000	0.0072 U	0.0057 U	0.0052 U
Styrene	mg/kg	NC	0.0072 U	0.0057 U	0.0052 U
Tetrachloroethene	mg/kg	300	0.0072 U	0.0057 U	0.0052 U
Toluene	mg/kg	1000	0.0072 U	0.0057 U	0.0052 U
trans-1,2-Dichloroethene	mg/kg	1000	0.0048 J	0.0048 J	0.0052 U
trans-1,3-Dichloropropene	mg/kg	NC	0.0072 U	0.0057 U	0.0052 U
Trichloroethene	mg/kg	400	0.14 J	0.13	0.0052 U
Trichlorofluoromethane (CFC-11)	mg/kg	NC	0.0072 UJ	0.0057 UJ	0.0052 U
Trifluorotrichloroethane (Freon 113)	mg/kg	NC	0.0072 U	0.0057 U	0.0052 U
Vinyl chloride	mg/kg	27	0.0081	0.017	0.0052 U
Xylene (total)	mg/kg	1000	0.022 U	0.0077 J	0.016 U
Semi-Volatile Organic Compounds					
2,2'-oxybis(1-Chloropropane) (bis(2-chloroisopropyl) ether)	mg/kg	NC	0.097 U	0.076 U	0.07 U
2,4,5-Trichlorophenol	mg/kg	NC	0.48 U	0.38 U	0.34 U
2,4,6-Trichlorophenol	mg/kg	NC	0.48 U	0.38 U	0.34 U
2,4-Dichlorophenol	mg/kg	NC	0.097 U	0.076 U	0.07 U
2,4-Dimethylphenol	mg/kg	NC	0.48 U	0.38 U	0.34 U
2,4-Dinitrophenol	mg/kg	NC	2.4 UJ	1.9 UJ	1.7 UJ
2,4-Dinitrotoluene	mg/kg	NC	0.48 U	0.38 U	0.34 U
2,6-Dinitrotoluene	mg/kg	NC	0.48 U	0.38 U	0.34 U
2-Chloronaphthalene	mg/kg	NC	0.097 U	0.076 U	0.07 U
2-Chlorophenol	mg/kg	NC	0.48 U	0.38 U	0.34 U
2-Methylnaphthalene	mg/kg	NC	0.097 U	0.076 U	0.07 U
2-Methylphenol	mg/kg	1000	0.48 U	0.38 U	0.34 U
2-Nitroaniline	mg/kg	NC	2.4 U	1.9 U	1.7 U
2-Nitrophenol	mg/kg	NC	0.48 U	0.38 U	0.34 U
3,3'-Dichlorobenzidine	mg/kg	NC	0.48 U	0.38 U	0.34 U
3-Nitroaniline	mg/kg	NC	2.4 U	1.9 U	1.7 U
4,6-Dinitro-2-methylphenol	mg/kg	NC	2.3 U	1.8 U	1.6 U
4-Bromophenyl phenyl ether	mg/kg	NC	0.48 U	0.38 U	0.34 U
4-Chloro-3-methylphenol	mg/kg	NC	0.48 U	0.38 U	0.34 U

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	Units [1]	6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial	Location ID: SB-17-07 Sample Name: SO-37191-072707-RN-SB-17 Sample Date: 7/27/2007 Depth: 6 - 10 ft	Location ID: SB-17-07 Sample Name: SO-37191-072707-RN-SB-27 Sample Date: 7/27/2007 Depth: 6 - 10 ft Duplicate	Location ID: SB-18-07 Sample Name: SO-37191-073007-CB-SB18 Sample Date: 7/30/2007 Depth: 4 - 7.2 ft
Semi-Volatiles (Cont'd.)					
4-Chloroaniline	mg/kg	NC	0.48 U	0.38 U	0.34 U
4-Chlorophenyl phenyl ether	mg/kg	NC	0.48 U	0.38 U	0.34 U
4-Methylphenol	mg/kg	1000	0.48 U	0.38 U	0.34 U
4-Nitroaniline	mg/kg	NC	2.4 U	1.9 U	1.7 U
4-Nitrophenol	mg/kg	NC	2.4 U	1.9 U	1.7 U
Acenaphthene	mg/kg	1000	0.097 U	0.076 U	0.07 U
Acenaphthylene	mg/kg	1000	0.097 U	0.076 U	0.07 U
Acetophenone	mg/kg	NC	0.48 U	0.38 U	0.34 U
Anthracene	mg/kg	1000	0.097 U	0.076 U	0.07 U
Atrazine	mg/kg	NC	0.48 UJ	0.38 UJ	0.34 UJ
Benzaldehyde	mg/kg	NC	0.48 UJ	0.38 UJ	0.34 U
Benzo(a)anthracene	mg/kg	11	0.084 J	0.076 U	0.055 J
Benzo(a)pyrene	mg/kg	1.1	0.089 J	0.013 J	0.054 J
Benzo(b)fluoranthene	mg/kg	11	0.1	0.076 U	0.069 J
Benzo(g,h,i)perylene	mg/kg	1000	0.042 J	0.076 U	0.07 U
Benzo(k)fluoranthene	mg/kg	110	0.028 J	0.076 U	0.034 J
Biphenyl	mg/kg	NC	0.48 U	0.38 U	0.34 U
bis(2-Chloroethoxy)methane	mg/kg	NC	0.48 U	0.38 U	0.34 U
bis(2-Chloroethyl)ether	mg/kg	NC	0.097 U	0.076 U	0.07 U
bis(2-Ethylhexyl)phthalate	mg/kg	NC	0.23 J	0.38 U	0.34 U
Butyl benzylphthalate	mg/kg	NC	0.48 U	0.38 U	0.34 U
Caprolactam	mg/kg	NC	0.48 U	0.38 U	0.34 U
Carbazole	mg/kg	NC	0.097 U	0.076 U	0.07 U
Chrysene	mg/kg	110	0.089 J	0.076 U	0.06 J
Dibenz(a,h)anthracene	mg/kg	1.1	0.097 U	0.076 U	0.07 U
Dibenzofuran	mg/kg	1000	0.48 U	0.38 U	0.34 U
Diethyl phthalate	mg/kg	NC	0.11 J	0.38 U	0.34 U
Dimethyl phthalate	mg/kg	NC	0.48 U	0.38 U	0.34 U
Di-n-butylphthalate	mg/kg	NC	0.48 U	0.38 U	0.34 U
Di-n-octyl phthalate	mg/kg	NC	0.48 U	0.38 U	0.34 U
Fluoranthene	mg/kg	1000	0.13	0.076 U	0.056 J
Fluorene	mg/kg	1000	0.097 U	0.076 U	0.07 U
Hexachlorobenzene	mg/kg	12	0.097 U	0.076 U	0.07 U
Hexachlorobutadiene	mg/kg	NC	0.097 U	0.076 U	0.07 U
Hexachlorocyclopentadiene	mg/kg	NC	0.48 U	0.38 U	0.34 U

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	Units [1]	6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial	Location ID: SB-17-07	Location ID: SB-17-07	Location ID: SB-18-07
			Sample Name: SO-37191-072707-RN-SB-17	Sample Name: SO-37191-072707-RN-SB-27	Sample Name: SO-37191-073007-CB-SB18
			Sample Date: 7/27/2007	Sample Date: 7/27/2007	Sample Date: 7/30/2007
			Depth: 6 - 10 ft	Depth: 6 - 10 ft Duplicate	Depth: 4 - 7.2 ft
Semi-Volatiles (Cont'd.)					
Hexachloroethane	mg/kg	NC	0.48 U	0.38 U	0.34 U
Indeno(1,2,3-cd)pyrene	mg/kg	11	0.042 J	0.076 U	0.07 U
Isophorone	mg/kg	NC	0.48 U	0.38 U	0.34 U
Naphthalene	mg/kg	1000	0.097 U	0.076 U	0.07 U
Nitrobenzene	mg/kg	NC	0.097 U	0.076 U	0.07 U
N-Nitrosodi-n-propylamine	mg/kg	NC	0.097 U	0.076 U	0.07 U
N-Nitrosodiphenylamine	mg/kg	NC	0.48 U	0.38 U	0.34 U
Pentachlorophenol	mg/kg	55	0.48 U	0.38 U	0.34 U
Phenanthrene	mg/kg	1000	0.081 J	0.076 U	0.07 U
Phenol	mg/kg	1000	0.097 U	0.076 U	0.07 U
Pyrene	mg/kg	1000	0.12	0.076 U	0.046 J
Metals					
Aluminum	mg/kg	NC	--	--	6100
Antimony	mg/kg	NC	--	--	1.0 U
Arsenic	mg/kg	16	--	--	3.5
Barium	mg/kg	10000	--	--	56.1
Beryllium	mg/kg	2700	--	--	0.44 U
Cadmium	mg/kg	60	--	--	0.24 J
Calcium	mg/kg	NC	--	--	92600
Chromium Total [2]	mg/kg	800	--	--	9.8
Cobalt	mg/kg	NC	--	--	4.5 J
Copper	mg/kg	10000	--	--	11.6
Iron	mg/kg	NC	--	--	12300
Lead	mg/kg	3900	155 J	13.4 J	6.2
Magnesium	mg/kg	NC	--	--	19100
Manganese	mg/kg	10000	--	--	405
Mercury	mg/kg	5.7	--	--	0.011 J
Nickel	mg/kg	10000	--	--	10.9
Potassium	mg/kg	NC	--	--	1380
Selenium	mg/kg	6800	--	--	0.52 U
Silver	mg/kg	6800	--	--	0.061 J
Sodium	mg/kg	NC	--	--	192 J
Thallium	mg/kg	NC	--	--	1.0 U

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	Units [1]	6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial	Location ID: SB-17-07	Location ID: SB-17-07	Location ID: SB-18-07
			Sample Name: SO-37191-072707-RN-SB-17	Sample Name: SO-37191-072707-RN-SB-27	Sample Name: SO-37191-073007-CB-SB18
			Sample Date: 7/27/2007	Sample Date: 7/27/2007	Sample Date: 7/30/2007
			Depth: 6 - 10 ft	Depth: 6 - 10 ft Duplicate	Depth: 4 - 7.2 ft
Metals (Cont'd.)					
Vanadium	mg/kg	NC	--	--	14.1
Zinc	mg/kg	10000	--	--	38.2
Herbicides					
2,4,5-T	mg/kg	NC	--	--	0.021 U
2,4,5-TP (Silvex)	mg/kg	1000	--	--	0.021 U
2,4-DB	mg/kg	NC	--	--	0.083 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	mg/kg	NC	--	--	0.083 U
2-Methyl-4-chlorophenoxyacetic acid (MCPA)	mg/kg	NC	--	--	8.3 U
Dalapon	mg/kg	NC	--	--	0.093 U
Dicamba	mg/kg	NC	--	--	0.042 U
Dichlorprop	mg/kg	NC	--	--	0.083 U
Dinoseb	mg/kg	NC	--	--	0.012 U
Mecoprop (MCPP)	mg/kg	NC	--	--	8.3 U
Pesticides					
4,4'-DDD	mg/kg	180	--	--	0.0018 U
4,4'-DDE	mg/kg	120	--	--	0.0018 U
4,4'-DDT	mg/kg	94	--	--	0.0018 U
Aldrin	mg/kg	1.4	--	--	0.0018 U
alpha-BHC	mg/kg	6.8	--	--	0.0018 U
alpha-Chlordane	mg/kg	47	--	--	0.0018 U
beta-BHC	mg/kg	14	--	--	0.0018 U
delta-BHC	mg/kg	1000	--	--	0.0018 U
Dieldrin	mg/kg	2.8	--	--	0.0018 U
Endosulfan I	mg/kg	920	--	--	0.0018 U
Endosulfan II	mg/kg	920	--	--	0.0018 U
Endosulfan sulfate	mg/kg	920	--	--	0.0018 U
Endrin	mg/kg	410	--	--	0.0018 U
Endrin aldehyde	mg/kg	NC	--	--	0.0018 U
Endrin ketone	mg/kg	NC	--	--	0.0018 U
gamma-BHC (Lindane)	mg/kg	23	--	--	0.0018 U
gamma-Chlordane	mg/kg	NC	--	--	0.0018 U
Heptachlor	mg/kg	29	--	--	0.0018 U
Heptachlor epoxide	mg/kg	NC	--	--	0.0018 U

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameters	Units [1]	6 NYCRR Part 375-6.8(b): Restricted Use Soil Cleanup Objectives Protection of Public Health - Industrial	Location ID: SB-17-07 Sample Name: SO-37191-072707-RN-SB-17 Sample Date: 7/27/2007 Depth: 6 - 10 ft	Location ID: SB-17-07 Sample Name: SO-37191-072707-RN-SB-27 Sample Date: 7/27/2007 Depth: 6 - 10 ft Duplicate	Location ID: SB-18-07 Sample Name: SO-37191-073007-CB-SB18 Sample Date: 7/30/2007 Depth: 4 - 7.2 ft
Pesticides (Cont'd.)					
Methoxychlor	mg/kg	NC	--	--	0.0034 U
Toxaphene	mg/kg	NC	--	--	0.07 U
PCBs					
Aroclor-1016 (PCB-1016)	mg/kg	25	--	--	0.017 U
Aroclor-1221 (PCB-1221)	mg/kg	25	--	--	0.017 U
Aroclor-1232 (PCB-1232)	mg/kg	25	--	--	0.017 U
Aroclor-1242 (PCB-1242)	mg/kg	25	--	--	0.017 U
Aroclor-1248 (PCB-1248)	mg/kg	25	--	--	0.017 U
Aroclor-1254 (PCB-1254)	mg/kg	25	--	--	0.017 U
Aroclor-1260 (PCB-1260)	mg/kg	25	--	--	0.017 U
Wet Chemistry					
Cyanide (total)	mg/kg	10000	--	--	0.18 J
Total Solids	%	NC	69.4	87.6	96.3

Notes:

[1] Reported results were converted from ug/kg (ppb) to mg/kg (ppm) for ease of comparison to criteria.

[2] The Soil Cleanup Objective (SCO) for this specific compound (or family of compounds) is considered to be met if the analysis for the total species of this contaminant is below the specific SCO. The most restrictive SCO for hexavalent Chromium was used for comparison to the total chromium results.

- Not analyzed.

1.0 Exceeds Criteria.

B Compound detected in an associated blank.

BHC Benzene Hexachloride.

D Reported from a diluted analysis.

E Exceeds the linear range of the instrument.

GC Gas Chromatograph

J Estimated.

N Tentatively identified.

NC No Criteria.

P Greater than 25% difference between concentrations detected on the two GC columns.

PCBs Polychlorinated Biphenyls.

U Not detected.

UJ Not detected, estimated reporting limit.

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING INITIAL CALIBRATION RESULTS
GROUNDWATER AND SOIL SAMPLING
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameter	*Compound*	*Calibration Date*	*%RSD*	*Associated Sample ID*	*Sample Results*	*Units*	*Qualifier*
SVOCs	2,4-Dinitrophenol	09/11/07	41	WG-37191-082107-RN-001	53 U	ug/L	UJ
				WG-37191-082107-RN-002	52 U	ug/L	UJ
				WG-37191-082107-RN-007	50 U	ug/L	UJ
SVOCs	Hexachlorocyclopentadiene	09/11/07	38	WG-37191-082107-RN-001	11 U	ug/L	UJ
				WG-37191-082107-RN-002	10 U	ug/L	UJ
				WG-37191-082107-RN-007	9.9 U	ug/L	UJ
SVOCs	2,4-Dinitrophenol	08/03/07	34	SO-37191-072507-RN-SB-05	2000 U	ug/Kg	UJ
				SO-37191-072507-RN-SB-1	2300 U	ug/Kg	UJ
				SO-37191-072507-RN-SB-10	2000 U	ug/Kg	UJ
				SO-37191-072507-RN-SB-7	5300 U	ug/Kg	UJ
				SO-37191-072507-RN-SB-8	2100 U	ug/Kg	UJ
				SO-37191-072507-RN-SB-9	2000 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-11	2200 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-12	2100 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-13	2000 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-14	1900 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-15	2000 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-16	2200 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-17	2400 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-27	1900 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-20	4400 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-2	4100 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-3	2000 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-4	2100 U	ug/Kg	UJ
				SO-37191-073007-CB-SB6	1900 U	ug/Kg	UJ
SVOCs	Benzaldehyde	08/03/07	40	SO-37191-072507-RN-SB-05	400 U	ug/Kg	UJ
				SO-37191-072507-RN-SB-1	460 U	ug/Kg	UJ
				SO-37191-072507-RN-SB-10	390 U	ug/Kg	UJ
				SO-37191-072507-RN-SB-7	1100 U	ug/Kg	UJ
				SO-37191-072507-RN-SB-8	410 U	ug/Kg	UJ
				SO-37191-072507-RN-SB-9	400 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-11	440 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-12	410 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-13	400 U	ug/Kg	UJ

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING INITIAL CALIBRATION RESULTS
GROUNDWATER AND SOIL SAMPLING
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameter	*Compound*	*Calibration Date*	*%RSD*	*Associated Sample ID*	*Sample Results*	*Units*	*Qualifier*
SVOCs	Benzaldehyde	08/03/07	40	SO-37191-072607-RN-SB-14	380 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-15	400 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-16	440 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-17	480 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-27	380 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-20	880 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-2	820 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-3	390 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-4	410 U	ug/Kg	UJ
				SO-37191-073007-CB-SB6	370 U	ug/Kg	UJ

Notes:
%RSD Percent Relative Standard Deviation.
SVOCs Semi-Volatile Organic Compounds.
U Not detected.
UJ Not detected, estimated reporting limit.

TABLE 5

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
GROUNDWATER AND SOIL SAMPLING
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Sample Results*	*Units*	*Qualifier*
VOCs	08/27/07	Acetone	41	WG-37191-082107-RN-001	600 U	ug/L	UJ
				WG-37191-082107-RN-004	60000 U	ug/L	UJ
				WG-37191-082107-RN-006	20 U	ug/L	UJ
				WG-37191-082107-RN-007	20 U	ug/L	UJ
VOCs	08/28/07	Chloroethane	74	WG-37191-082107-RN-002	100 U	ug/L	UJ
VOCs	08/30/07	Chloroethane	84	WG-37191-082107-RN-005	1200 U	ug/L	UJ
VOCs	09/02/07	Chloroethane	39	WG-37191-082107-RN-003	12000 U	ug/L	UJ
VOCs	08/27/07	Dichlorodifluoromethane (CFC-12)	39	WG-37191-082107-RN-001	150 U	ug/L	UJ
				WG-37191-082107-RN-004	15000 U	ug/L	UJ
				WG-37191-082107-RN-006	5.0 U	ug/L	UJ
				WG-37191-082107-RN-007	5.0 U	ug/L	UJ
VOCs	09/02/07	Trichlorofluoromethane (CFC-11)	49	WG-37191-082107-RN-003	12000 U	ug/L	UJ
VOCs	08/27/07	Trifluorotrichloroethane (Freon 113)	39	WG-37191-082107-RN-001	150 U	ug/L	UJ
				WG-37191-082107-RN-004	15000 U	ug/L	UJ
				WG-37191-082107-RN-006	5.0 U	ug/L	UJ
				WG-37191-082107-RN-007	5.0 U	ug/L	UJ
VOCs	08/28/07	Trifluorotrichloroethane (Freon 113)	45	WG-37191-082107-RN-002	100 U	ug/L	UJ
VOCs	08/30/07	Trifluorotrichloroethane (Freon 113)	43	WG-37191-082107-RN-005	1200 U	ug/L	UJ
VOCs	08/01/07	Acetone	41	SO-37191-072507-RN-SB-7	1600 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-13	100 J	ug/Kg	J
VOCs	08/01/07	Acetone	28	SO-37191-072507-RN-SB-8	25 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-14	23 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-16	27 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-2	25 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-3	24 U	ug/Kg	UJ

TABLE 5

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
GROUNDWATER AND SOIL SAMPLING
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Sample Results*	*Units*	*Qualifier*
VOCs	08/01/07	Bromoform	35	SO-37191-072507-RN-SB-05	6.0 U	ug/Kg	UJ
				SO-37191-072507-RN-SB-1	6.9 U	ug/Kg	UJ
				SO-37191-072507-RN-SB-10	5.9 U	ug/Kg	UJ
				SO-37191-072507-RN-SB-9	6.1 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-11	6.7 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-12	6.2 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-15	6.1 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-17	7.2 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-4	6.2 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-20	6.7 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-27	5.7 U	ug/Kg	UJ
VOCs	08/01/07	Bromoform	26	SO-37191-072507-RN-SB-8	6.1 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-14	5.7 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-16	6.7 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-2	6.2 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-3	6.0 U	ug/Kg	UJ
VOCs	08/02/07	Bromoform	31	SO-37191-073007-CB-SB18	5.2 U	ug/Kg	UJ
VOCs	08/01/07	Bromomethane (Methyl Bromide)	36	SO-37191-072507-RN-SB-05	6.0 U	ug/Kg	UJ
				SO-37191-072507-RN-SB-1	6.9 U	ug/Kg	UJ
				SO-37191-072507-RN-SB-10	5.9 U	ug/Kg	UJ
				SO-37191-072507-RN-SB-9	6.1 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-11	6.7 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-12	6.2 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-15	6.1 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-17	7.2 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-4	6.2 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-20	6.7 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-27	5.7 U	ug/Kg	UJ
VOCs	08/01/07	Bromomethane (Methyl Bromide)	34	SO-37191-072507-RN-SB-8	6.1 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-14	5.7 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-16	6.7 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-2	6.2 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-3	6.0 U	ug/Kg	UJ

TABLE 5

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
GROUNDWATER AND SOIL SAMPLING
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Sample Results*	*Units*	*Qualifier*
VOCs	08/02/07	Bromomethane (Methyl Bromide)	32	SO-37191-073007-CB-SB18	5.2 U	ug/Kg	UJ
VOCs	08/01/07	Chloroethane	38	SO-37191-072507-RN-SB-05	6.0 U	ug/Kg	UJ
				SO-37191-072507-RN-SB-1	6.9 U	ug/Kg	UJ
				SO-37191-072507-RN-SB-10	5.9 U	ug/Kg	UJ
				SO-37191-072507-RN-SB-9	6.1 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-11	6.7 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-12	6.2 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-15	6.1 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-17	7.2 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-4	6.2 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-20	6.7 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-27	5.7 U	ug/Kg	UJ
VOCs	08/01/07	Chloroethane	35	SO-37191-072507-RN-SB-8	6.1 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-14	5.7 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-16	6.7 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-2	6.2 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-3	6.0 U	ug/Kg	UJ
VOCs	08/02/07	Chloroethane	71	SO-37191-073007-CB-SB18	5.2 U	ug/Kg	UJ
VOCs	08/01/07	delta-BHC	20	SO-37191-072507-RN-SB-1	0.54 J	ug/Kg	J
				SO-37191-072707-RN-SB-3	0.33 J	ug/Kg	J
VOCs	08/01/07	Dichlorodifluoromethane (CFC-12)	33	SO-37191-072507-RN-SB-7	400 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-13	310 U	ug/Kg	UJ
VOCs	08/01/07	Trichlorofluoromethane (CFC-11)	35	SO-37191-072507-RN-SB-05	6.0 U	ug/Kg	UJ
				SO-37191-072507-RN-SB-1	6.9 U	ug/Kg	UJ
				SO-37191-072507-RN-SB-10	5.9 U	ug/Kg	UJ
				SO-37191-072507-RN-SB-9	6.1 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-11	6.7 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-12	6.2 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-15	6.1 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-17	7.2 U	ug/Kg	UJ

TABLE 5

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
GROUNDWATER AND SOIL SAMPLING
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Sample Results*	*Units*	*Qualifier*
VOCs	08/01/07	Trichlorofluoromethane (CFC-11)	35	SO-37191-072707-RN-SB-4	6.2 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-20	6.7 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-27	5.7 U	ug/Kg	UJ
SVOCs	08/12/07	2,4-Dinitrophenol	30	SO-37191-073007-CB-SB18	1700 U	ug/Kg	UJ
Pesticides	08/01/07	4,4'-DDD	22	SO-37191-072507-RN-SB-1	0.85 J	ug/Kg	J
				SO-37191-072707-RN-SB-3	0.55 J	ug/Kg	J
Pesticides	08/01/07	4,4'-DDE	21	SO-37191-072507-RN-SB-1	2.0 J	ug/Kg	J
				SO-37191-072707-RN-SB-3	0.52 J	ug/Kg	J
Pesticides	08/01/07	Aldrin	26	SO-37191-072507-RN-SB-05	0.28 J	ug/Kg	J
				SO-37191-072507-RN-SB-1	2.1 J	ug/Kg	J
Pesticides	08/08/07	Atrazine	35	SO-37191-072507-RN-SB-05	400 U	ug/Kg	UJ
				SO-37191-072507-RN-SB-1	460 U	ug/Kg	UJ
				SO-37191-072507-RN-SB-10	390 U	ug/Kg	UJ
				SO-37191-072507-RN-SB-7	1100 U	ug/Kg	UJ
				SO-37191-072507-RN-SB-8	410 U	ug/Kg	UJ
				SO-37191-072507-RN-SB-9	400 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-11	440 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-12	410 U	ug/Kg	UJ
				SO-37191-072607-RN-SB-15	400 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-17	480 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-27	380 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-20	880 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-2	820 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-3	390 U	ug/Kg	UJ
				SO-37191-072707-RN-SB-4	410 U	ug/Kg	UJ
Pesticides	08/12/07	Atrazine	38	SO-37191-073007-CB-SB18	340 U	ug/Kg	UJ
				SO-37191-073007-CB-SB19	370 U	ug/Kg	UJ
Pesticides	08/01/07	Endosulfan sulfate	18	SO-37191-072507-RN-SB-1	0.77 J	ug/Kg	J

TABLE 5

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING CONTINUING CALIBRATION RESULTS
GROUNDWATER AND SOIL SAMPLING
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameter	*Calibration Date*	*Compound*	*%D*	*Associated Sample ID*	*Sample Results*	*Units*	*Qualifier*
Pesticides	08/01/07	gamma-BHC (Lindane)	18	SO-37191-072507-RN-SB-1	7.5	ug/Kg	
				SO-37191-072707-RN-SB-3	0.98 J	ug/Kg	J

Notes:

%D	Percent Difference.
J	Estimated.
SVOCs	Semi-Volatile Organic Compounds.
U	Not detected.
UJ	Not detected, estimated reporting limit.
VOCs	Volatile Organic Compounds.

TABLE 6

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
GROUNDWATER AND SOIL SAMPLING
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Sample Result*	*Qualified Result*
VOCs	08/01/07	Methylene chloride	2.1	SO-37191-072507-RN-SB-05	3.5 J	6.0 U
				SO-37191-072507-RN-SB-1	3.9 J	6.9 U
				SO-37191-072507-RN-SB-10	3.2 J	5.9 U
				SO-37191-072507-RN-SB-9	6.1	6.1 U
				SO-37191-072607-RN-SB-11	3.3 J	6.7 U
				SO-37191-072607-RN-SB-12	4.0 J	6.2 U
				SO-37191-072607-RN-SB-15	3.1 J	6.1 U
				SO-37191-072707-RN-SB-17	4.0 J	7.2 U
				SO-37191-072707-RN-SB-4	3.1 J	6.2 U
				SO-37191-072707-RN-SB-20	5.3 J	6.7 U
				SO-37191-072707-RN-SB-27	2.6 J	5.7 U
VOCs	08/01/07	Methylene chloride	56	SO-37191-072507-RN-SB-7	130 J	400 U
				SO-37191-072607-RN-SB-13	190 J	310 U
VOCs	08/01/07	Methylene chloride	1.2	SO-37191-072507-RN-SB-8	1.7 J	6.1 U
				SO-37191-072607-RN-SB-14	1.4 J	5.7 U
				SO-37191-072607-RN-SB-16	1.3 J	6.7 U
				SO-37191-072707-RN-SB-3	1.5 J	6.0 U
VOCs	08/02/07	Methylene chloride	1.5	SO-37191-073007-CB-SB18	1.6 J	5.2 U
VOCs	08/03/07	Methylene chloride	100	SO-37191-073007-CB-SB6	380 J	380 U
				SO-37191-073007-CB-SB19	210 J	280 U
Metals	9/7/07-ICB	Beryllium	1.0	WG-37191-082107-RN-001	0.48	4.0 U
				WG-37191-082107-RN-002	0.82	4.0 U
				WG-37191-082107-RN-007	1.2	4.0 U
Metals	08/30/07	Aluminum (Dissolved)	18.4	WG-37191-082107-RN-001	53.3	200 U
				WG-37191-082107-RN-002	65.3	200 U
				WG-37191-082107-RN-007	37.1	200 U
Metals	08/30/07	Beryllium (Dissolved)	0.65	WG-37191-082107-RN-001	0.58	4.0 U
				WG-37191-082107-RN-002	0.60	4.0 U
				WG-37191-082107-RN-007	0.64	4.0 U
Metals	8/30/07	Cadmium	0.33	WG-37191-082107-RN-001	0.71	5.0 U
				WG-37191-082107-RN-002	0.44	5.0 U
Metals	8/30/07	Zinc (Dissolved)	5.6	WG-37191-082107-RN-001	7.8	20.0 U
				WG-37191-082107-RN-002	10.5	20.0 U
				WG-37191-082107-RN-007	16.6	20.0 U
Metals	8/11/07	Beryllium	1.5	SO-37191-072707-RN-SB-3	0.57	0.57 U
Metals	8/11/07	Thallium	0.33	SO-37191-072507-RN-SB-05	0.92	1.2 U
				SO-37191-072507-RN-SB-1	0.65	1.4 U
Metals	07/31/07	Antimony	0.32	SO-37191-072507-RN-SB-1	0.86	1.4 U
Metals	08/02/07	Antimony	0.10	SO-37191-073007-CB-SB18	0.11	1.0 U

TABLE 6

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
GROUNDWATER AND SOIL SAMPLING
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Sample Result*	*Qualified Result*
Metals	07/31/07	Silver	0.066	SO-37191-072507-RN-SB-05	0.069	0.60 U
				SO-37191-072507-RN-SB-1	0.18	0.69 U
				SO-37191-072607-RN-SB-12	0.060	0.62 U

Notes:
J Estimated.
U Not detected.
VOCs Volatile Organic Compounds.

TABLE 7

QUALIFIED SAMPLE DATA DUE TO OUTLYING SURROGATE RECOVERIES
GROUNDWATER AND SOIL SAMPLING
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameter	*Surrogate*	*Surrogate Recovery (percent)*	*Control Limits (percent)*	*Sample ID*	*Analytes*	*Sample Results*	*Units*	*Qualifier*
SVOCs	2-Fluorobiphenyl	99	34-97	WG-37191-082107-RN-007	bis(2-Ethylhexyl)phthalate	2.4 J	ug/L	J
	Nitrobenzene-d5	111	38-97		2-Methylnaphthalene	0.62 J	ug/L	J

Notes:
J Estimated.
SVOCs Semi-Volatile Organic Compounds.

TABLE 8

QUALIFIED SAMPLE RESULTS DUE TO OUTLYING MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERIES
GROUNDWATER AND SOIL SAMPLING
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameter	*Analyte*	*Associated Sample ID*	*MS Recovery (percent)*	*MSD Recovery (percent)*	*RPD*	*Control Limits*		*Sample Result*	*Units*	*Qualifier*
						Recovery (percent)	*RPD (percent)*			
Metals	Aluminum	WG-37191-082107-RN-001	183	168	9	75-125	30	5110	ug/L	J
		WG-37191-082107-RN-002						4190	ug/L	J
		WG-37191-082107-RN-007						8250	ug/L	J
Pesticides	4,4'-DDT	SO-37191-072507-RN-SB-1	MI	MI	-	70-130	20	1.7 J	ug/kg	J
General Chemistry	Cyanide (total)	SO-37191-072507-RN-SB-1	131	130	1	75-125	20	0.29	mg/kg	J
		SO-37191-072507-RN-SB-8						0.23	mg/kg	J
VOCs	Trichloroethene	SO-37191-072707-RN-SB-17	28	127	128	46-141	20	140	ug/kg	J

Notes:
- Not applicable.
J Estimated.
MI Matrix interference. Recoveries were not calculated.
MS Matrix Spike.
MSD Matrix Spike Duplicate.
RPD Relative Percent Difference.
VOCs Volatile Organic Compounds.

TABLE 9

QUALIFIED SAMPLE RESULTS DUE TO VARIABILITY IN FIELD DUPLICATE RESULTS
GROUNDWATER AND SOIL SAMPLING
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameter	*Analyte*	*Original Sample ID*	*Original Result*	*Duplicate Sample ID*	*Duplicate Result*	*RPD*	*Units*	*Qualifier* [1]
VOCs	cis-1,2-Dichloroethene	WG-37191-082107-RN-001	2200	WG-37191-082107-RN-002	1100	67	ug/L	J
VOCs	Trichloroethene	WG-37191-082107-RN-001	2000	WG-37191-082107-RN-002	1000	67	ug/L	J
VOCs	cis-1,2-Dichloroethene	WG-37191-082107-RN-004	65000	WG-37191-082107-RN-005	25000	89	ug/L	J
VOCs	Trichloroethene	WG-37191-082107-RN-004	190000	WG-37191-082107-RN-005	26000	152	ug/L	J
Metals	Lead	WG-37191-082107-RN-001	56.8	WG-37191-082107-RN-002	30.0	52	ug/L	J
Metals	Lead	SO-37191-072707-RN-SB-17	155	SO-37191-072707-RN-SB-27	13.4	200	mg/Kg	J

Notes:
[1] Qualifier is associated with both original and duplicate result.
J Estimated.
RPD Relative Percent Difference.
VOCs Volatile Organic Compounds.

TABLE 10

QUALIFIED SAMPLE RESULTS DUE TO DIFFERENCES IN DUAL COLUMN RESULTS
GROUNDWATER AND SOIL SAMPLING
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
JULY - AUGUST 2007

Parameter	*Compound*	*Associated Sample ID*	*%D*	*Sample Results*		*Units*	*Reported Results*
				Column 1	*Column 2*		
Pesticides	delta-BHC	WG-37191-082107-RN-007	131	0.081	0.017 J	ug/L	0.081 U
	Endrin aldehyde	WG-37191-082107-RN-007	82	0.036 J	0.015 J	ug/L	0.051 U

Notes:

%D	Percent Difference.
BHC	Benzene Hexachloride.
J	Estimated.
U	Not detected.

CONESTOGA-ROVERS & ASSOCIATES

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MEMORANDUM

TO: Chris Barton

REF. NO.: 037191

FROM: Kathleen Willy/bjw/3

DATE: January 25, 2010

E-Mail and Hard Copy if Requested

RE: **Data Usability Summary Report (DUSR)**
Soil Vapor Intrusion Investigation
Former Buffalo China Site
Buffalo, New York

INTRODUCTION

The following details a quality assessment and validation of the analytical data resulting from the December 2009 collection of nine soil vapor air samples, from the Former Buffalo China Site in Buffalo, New York. The sample summary detailing sample identification, sample location, quality control (QC) samples and analytical parameters is presented in Table 1. Sample analysis was completed at TestAmerica Laboratories (TA), in Knoxville, Tennessee, in accordance with the methodologies presented in Table 2.

This DUSR has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation "Draft DER-10, Technical Guidance for Site Investigation and Remediation, Appendix 2B-Guidance for the Development of Data Usability Summary Reports," December 2002.

Samples were collected in accordance with the Site-Specific Work Plan (Conestoga-Rovers & Associates [CRA], February 2008), the New York State Department of Health's (NYSDOH's) Final document, "Guidance for Evaluating Soil Vapor Intrusion in the State of New York," October 2006 (SVI Guidance), and DER-10.

A total of 12 soil vapor samples including three field duplicates were collected from three residential properties and one former school building during the November 2009 sampling event. Those samples included indoor air and sub-slab samples collected from 82 Harrison Street (the former school building), 103 Harrison Street, 127 Harrison Street, and 138 Harrison Street. In addition, ambient upwind vapor sample canisters were setup at the southwest corner of the property at 82 Harrison Street (wind direction was from the southwest). A helium blanket was used at each sub-slab sample location to evaluate system leaks.

ANALYTICAL METHODOLOGY AND DATA VALIDATION

The QC criteria used to assess the data were established by the methods and with the following guidance document:

i) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review," United States Environmental Protection Agency (USEPA) 540/R-99/008, October 1999.

This Guideline is referred to as "Guidelines" in this memorandum.

The data review included evaluation of the data package, holding times, surrogate recoveries, method blanks, blank spike recoveries, and lab/field duplicates.

Qualifications applied to the analytical results based on the data validation include "J" (estimated concentration) and "UJ" (estimated quantitation limit). The validated analytical results are presented in Tables 3A and 3B.

QA/QC REVIEW

DELIVERABLES

The data package was complete as requested. The data package was a modified Category B deliverable including CLP like forms but no raw data.

HOLDING TIMES

Based on the methods, all required holding times were met

BLANKS

Method blanks were analyzed on a daily basis. Methylene chloride and 1,1,1-trichloroethane were present at low concentrations. Samples with similar concentrations were qualified as non-detected. A summary of the qualified results is presented in Table 4.

SURROGATE SPIKE RECOVERIES

All samples, blanks, and QC samples were spiked with the proper internal standard and surrogate compounds prior to sample analysis for volatile organic compounds (VOCs) All recoveries met the method criteria, indicating acceptable analytical efficiency.

BLANK SPIKE (BS) ANALYSES

BSs were analyzed at the required frequency for all parameters, and all recoveries were acceptable indicating adequate analytical efficiency.

FIELD DUPLICATE ANALYSES

Three field duplicates (SS-32191-111809-JDW-003, OA-37191-111809-JDW-002, and IA-37191-111809-JDW-005) were collected and submitted "blind" to the laboratory for analysis. All of the results showed good precision outside of the estimated regions of detection indicating acceptable analytical and sampling precision.

SAMPLE RESULTS AND REPORTING

All sample results and quantitation limits were reported in accordance with method requirements and were adjusted for dilution factors.

OVERALL ASSESSMENT

According to the work plan, a helium blanket was to be utilized to evaluate the presence of leaks within the sample train. A helium concentration within the sample container greater than 10 percent would indicate a potential leak within the sample train and would potentially disqualify the results from use. A review of the helium concentrations indicate that for the four sub-slab samples were a helium blanket was used, all helium percentages with in the samples were less than 10 percent. Therefore, the results were judged acceptable for their intended use.

All deliverables required by the project were present, and the data package was complete. Based on the preceding evaluation, the data were acceptable for use with the qualifications noted.

TABLE 1

SAMPLE AND ANALYSIS SUMMARY
SOIL VAPOR INTRUSION INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
DECEMBER 2009

						Analysis/Parameters		
Sample I.D.	*Location I.D.*	*Matrix*	*Start Time*	*End Time*	*Date (mm/dd/yy)*	*TCL VOCs*	*Helium*	*Comment*
SS-37191-111809-JDW-001	103 Harrison	Air	10:49	10:49	11/18/09	X	X	
IA-37191-111809-JDW-001	103 Harrison	Air	10:50	10:50	11/18/09	X		
SS-37191-111809-JDW-002	82 Harrison	Air	12:32	12:32	11/18/09	X	X	
SS-37191-111809-JDW-003	82 Harrison	Air	12:32	12:32	11/18/09	X	X	Field duplicate of sample SS-37191-111809-JDW-002
IA-37191-111809-JDW-002	82 Harrison	Air	12:33	12:33	11/18/09	X		
OA-37191-111809-JDW-001	Up Wind	Air	13:06	13:06	11/18/09	X		
OA-37191-111809-JDW-002	Up Wind	Air	13:06	13:06	11/18/09	X		Field duplicate of sample OA-37191-111809-JDW-001
SS-37191-111809-JDW-004	138 Harrison	Air	14:39	14:39	11/18/09	X	X	
IA-37191-111809-JDW-003	138 Harrison	Air	14:39	14:39	11/18/09	X		
SS-37191-111809-JDW-005	127 Harrison	Air	16:12	16:12	11/18/09	X	X	
IA-37191-111809-JDW-004	127 Harrison	Air	16:13	16:13	11/18/09	X		
IA-37191-111809-JDW-005	127 Harrison	Air	16:13	16:13	11/18/09	X		Field duplicate of sample IA-37191-111809-JDW-004

Notes:

TCL - Target Compound List.
VOCs - Volatile Organic Compounds.

TABLE 2

SUMMARY OF ANALYTICAL METHODS
SOIL VAPOR INTRUSION INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
DECEMBER 2009

Parameter	*Method*
TCL VOCs	EPA-2 TO-15 (1)
Helium	ASTM D1946 MOD (2)

Notes:

1	"Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air"' EPA-625/R-96/010b, January 1999.
2	Annual Book of ASTM Standards.
TCL	Target Compound List.
VOCs	Volatile Organic Compounds.

TABLE 3A

ANALYTICAL RESULTS SUMMARY
SOIL VAPOR INTRUSION INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
DECEMBER 2009

Parameters	*Units*	*Location ID:* *Sample Name:* *Sample Date:*	*82 Harrison* *IA-37191-111809-JDW-002* *11/19/2009*	*82 Harrison* *SS-37191-111809-JDW-002* *11/19/2009*	*82 Harrison* *SS-37191-111809-JDW-003* *11/19/2009* *Duplicate*	*103 Harrison* *IA-37191-111809-JDW-001* *11/19/2009*
Volatile Organic Compounds						
1,1,1-Trichloroethane	ppbv		0.080 U	0.16	0.16	0.080 U
1,1,2,2-Tetrachloroethane	ppbv		0.080 U	0.080 U	0.080 U	0.080 U
1,1,2-Trichloroethane	ppbv		0.080 U	0.080 U	0.080 U	0.080 U
1,1-Dichloroethane	ppbv		0.080 U	0.080 U	0.080 U	0.080 U
1,1-Dichloroethene	ppbv		0.080 U	0.080 U	0.080 U	0.080 U
1,2,4-Trichlorobenzene	ppbv		0.40 U	0.40 U	0.40 U	0.40 U
1,2,4-Trimethylbenzene	ppbv		0.25	0.23	0.62	1.9
1,2-Dibromoethane (Ethylene Dibromide)	ppbv		0.080 U	0.080 U	0.080 U	0.080 U
1,2-Dichlorobenzene	ppbv		0.080 U	0.080 U	0.080 U	0.080 U
1,2-Dichloroethane	ppbv		0.080 U	0.080 U	0.080 U	0.084
1,2-Dichloropropane	ppbv		0.080 U	0.080 U	0.080 U	0.080 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppbv		0.018 J	0.015 J	0.014 J	0.016 J
1,3,5-Trimethylbenzene	ppbv		0.079 J	0.066 J	0.19	0.73
1,3-Dichlorobenzene	ppbv		0.080 U	0.080 U	0.080 U	0.080 U
1,4-Dichlorobenzene	ppbv		0.052 J	0.080 U	0.080 U	0.070 J
1,4-Dioxane	ppbv		0.20 U	0.20 U	0.20 U	0.20 U
2,2,4-Trimethylpentane	ppbv		0.15 J	0.019 J	0.039 J	0.15 J
2-Butanone (Methyl Ethyl Ketone)	ppbv		0.98	0.69	0.53	6.2
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ppbv		0.16 J	0.064 J	0.060 J	0.49
Benzene	ppbv		0.39	0.13	0.13	0.57
Benzyl Chloride	ppbv		0.16 U	0.16 U	0.16 U	0.16 U
Bromodichloromethane	ppbv		0.020 J	0.080 U	0.080 U	0.23
Bromoform	ppbv		0.080 U	0.080 U	0.080 U	0.080 U
Bromomethane (Methyl Bromide)	ppbv		0.080 U	0.080 U	0.080 U	0.080 U
Carbon tetrachloride	ppbv		0.076 J	0.030 J	0.030 J	0.078 J
Chlorobenzene	ppbv		0.080 U	0.080 U	0.080 U	0.080 U
Chloroethane	ppbv		0.018 J	0.080 U	0.080 U	0.080 U
Chloroform (Trichloromethane)	ppbv		0.065 J	0.027 J	0.026 J	0.85
Chloromethane (Methyl Chloride)	ppbv		0.43	0.073 J	0.070 J	0.70
cis-1,2-Dichloroethene	ppbv		0.080 U	0.087	0.080 U	0.57
cis-1,3-Dichloropropene	ppbv		0.080 U	0.080 U	0.080 U	0.080 U

TABLE 3A

ANALYTICAL RESULTS SUMMARY
SOIL VAPOR INTRUSION INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
DECEMBER 2009

	Location ID:	*82 Harrison*	*82 Harrison*	*82 Harrison*	*103 Harrison*
	Sample Name:	*IA-37191-111809-JDW-002*	*SS-37191-111809-JDW-002*	*SS-37191-111809-JDW-003*	*IA-37191-111809-JDW-001*
	Sample Date:	*11/19/2009*	*11/19/2009*	*11/19/2009*	*11/19/2009*
				Duplicate	
Parameters	*Units*				
Volatile Organic Compounds (Cont'd.)					
Cyclohexane	ppbv	0.13 J	0.067 J	0.076 J	1.5
Dibromochloromethane	ppbv	0.080 U	0.080 U	0.080 U	0.058 J
Dichlorodifluoromethane (CFC-12)	ppbv	0.44	0.46	0.44	0.40
Ethylbenzene	ppbv	0.24	0.089	0.24	2.6
Hexachlorobutadiene	ppbv	0.40 U	0.40 U	0.40 U	0.40 U
Hexane	ppbv	0.50	0.22	0.25	0.83
m&p-Xylene	ppbv	0.79	0.37	1.8	8.7
Methyl Tert Butyl Ether	ppbv	0.40 U	0.40 U	0.40 U	0.40 U
Methylene chloride	ppbv	0.56	0.23 U	0.31	42
o-Xylene	ppbv	0.28	0.15	0.60	2.4
Styrene	ppbv	0.28	0.023 J	0.026 J	0.38
Tert-Butyl Alcohol	ppbv	0.060 J	0.042 J	0.058 J	0.23 J
Tetrachloroethene	ppbv	0.073 J	0.14	0.074 J	0.13
Toluene	ppbv	1.4	0.40	0.72	6.3
trans-1,2-Dichloroethene	ppbv	0.080 U	0.080 U	0.080 U	0.080 U
trans-1,3-Dichloropropene	ppbv	0.080 U	0.080 U	0.080 U	0.080 U
Trichloroethene	ppbv	0.077	0.33	0.055	2.7
Trichlorofluoromethane (CFC-11)	ppbv	6.5	1.9	1.8	0.92
Trifluorotrichloroethane (Freon 113)	ppbv	0.076 J	0.066 J	0.063 J	0.089
Vinyl chloride	ppbv	0.080 U	0.080 U	0.080 U	0.080 U
Helium	%	--	0.51	0.52	--

TABLE 3A

ANALYTICAL RESULTS SUMMARY
SOIL VAPOR INTRUSION INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
DECEMBER 2009

Location ID:	*103 Harrison*	*127 Harrison Front*	*127 Harrison Front*	*127 Harrison Front*
Sample Name:	*SS-37191-111809-JDW-001*	*IA-37191-111809-JDW-004*	*IA-37191-111809-JDW-005*	*SS-37191-111809-JDW-005*
Sample Date:	*11/19/2009*	*11/19/2009*	*11/19/2009*	*11/19/2009*
			Duplicate	
Parameters	*Units*			
Volatile Organic Compounds				
1,1,1-Trichloroethane	ppbv	0.080 U	0.18	0.18	80 U
1,1,2,2-Tetrachloroethane	ppbv	0.080 U	0.080 U	0.080 U	80 U
1,1,2-Trichloroethane	ppbv	0.080 U	0.080 U	0.080 U	80 U
1,1-Dichloroethane	ppbv	0.080 U	0.080 U	0.080 U	80 U
1,1-Dichloroethene	ppbv	0.080 U	0.075 J	0.072 J	70 J
1,2,4-Trichlorobenzene	ppbv	0.40 U	0.40 U	0.40 U	400 U
1,2,4-Trimethylbenzene	ppbv	0.19	1.7	0.74	80 U
1,2-Dibromoethane (Ethylene Dibromide)	ppbv	0.080 U	0.080 U	0.080 U	80 U
1,2-Dichlorobenzene	ppbv	0.080 U	0.080 U	0.080 U	80 U
1,2-Dichloroethane	ppbv	0.080 U	0.080 U	0.080 U	80 U
1,2-Dichloropropane	ppbv	0.080 U	0.080 U	0.080 U	80 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppbv	0.080 U	0.080 U	0.080 U	80 U
1,3,5-Trimethylbenzene	ppbv	0.069 J	0.59	0.32	80 U
1,3-Dichlorobenzene	ppbv	0.080 U	0.080 U	0.080 U	80 U
1,4-Dichlorobenzene	ppbv	0.080 U	0.033 J	0.080 U	80 U
1,4-Dioxane	ppbv	0.20 U	0.20 U	0.20 U	200 U
2,2,4-Trimethylpentane	ppbv	0.20 U	0.20	0.21	200 U
2-Butanone (Methyl Ethyl Ketone)	ppbv	0.96	1.1	1.5	320 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ppbv	0.063 J	0.19 J	0.22	200 U
Benzene	ppbv	0.12	1.1	1.1	80 U
Benzyl Chloride	ppbv	0.16 U	0.16 U	0.16 U	160 U
Bromodichloromethane	ppbv	0.080 U	0.080 U	0.080 U	80 U
Bromoform	ppbv	0.080 U	0.080 U	0.080 U	80 U
Bromomethane (Methyl Bromide)	ppbv	0.080 U	0.080 U	0.080 U	80 U
Carbon tetrachloride	ppbv	0.049 J	0.075 J	0.075 J	80 U
Chlorobenzene	ppbv	0.080 U	0.080 U	0.080 U	80 U
Chloroethane	ppbv	0.080 U	0.080 U	0.080 U	80 U
Chloroform (Trichloromethane)	ppbv	0.060 J	0.077 J	0.084	80 U
Chloromethane (Methyl Chloride)	ppbv	0.13 J	0.69	0.68	200 U
cis-1,2-Dichloroethene	ppbv	0.080 U	14	14	14000
cis-1,3-Dichloropropene	ppbv	0.080 U	0.080 U	0.080 U	80 U

TABLE 3A

ANALYTICAL RESULTS SUMMARY
SOIL VAPOR INTRUSION INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
DECEMBER 2009

Parameters	*Units*	*Location ID:* *103 Harrison* *Sample Name:* *SS-37191-111809-JDW-001* *Sample Date:* *11/19/2009*	*127 Harrison Front* *IA-37191-111809-JDW-004* *11/19/2009*	*127 Harrison Front* *IA-37191-111809-JDW-005* *11/19/2009* *Duplicate*	*127 Harrison Front* *SS-37191-111809-JDW-005* *11/19/2009*
Volatile Organic Compounds (Cont'd.)					
Cyclohexane	ppbv	0.28	0.36	0.25	200 U
Dibromochloromethane	ppbv	0.080 U	0.080 U	0.080 U	80 U
Dichlorodifluoromethane (CFC-12)	ppbv	0.25	0.94	0.95	80 U
Ethylbenzene	ppbv	0.14	0.55	0.53	80 U
Hexachlorobutadiene	ppbv	0.40 U	0.40 U	0.40 U	400 U
Hexane	ppbv	0.25	1.2	1.1	23 J
m&p-Xylene	ppbv	0.50	2.0	1.9	80 U
Methyl Tert Butyl Ether	ppbv	0.40 U	0.40 U	0.40 U	400 U
Methylene chloride	ppbv	0.36 U	0.99	0.84	120 J
o-Xylene	ppbv	0.17	0.83	0.74	80 U
Styrene	ppbv	0.044 J	0.46	0.36	80 U
Tert-Butyl Alcohol	ppbv	0.074 J	0.069 J	0.11 J	320 U
Tetrachloroethene	ppbv	0.053 J	0.45	0.52	120
Toluene	ppbv	0.59	2.9	3.0	80 U
trans-1,2-Dichloroethene	ppbv	0.080 U	0.26	0.25	250
trans-1,3-Dichloropropene	ppbv	0.080 U	0.080 U	0.080 U	80 U
Trichloroethene	ppbv	0.031 J	15	14	14000
Trichlorofluoromethane (CFC-11)	ppbv	0.80	0.48	0.47	80 U
Trifluorotrichloroethane (Freon 113)	ppbv	0.078 J	0.14	0.14	80 U
Vinyl chloride	ppbv	0.080 U	0.080 U	0.080 U	80 U
Helium	%	0.24 U	--	--	0.72

TABLE 3A

ANALYTICAL RESULTS SUMMARY
SOIL VAPOR INTRUSION INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
DECEMBER 2009

Location ID:		*138 Harrison*	*138 Harrison*	*Up Wind*	*Up Wind*
Sample Name:		*IA-37191-111809-JDW-003*	*SS-37191-111809-JDW-004*	*OA-37191-111809-JDW-001*	*OA-37191-111809-JDW-002*
Sample Date:		*11/19/2009*	*11/19/2009*	*11/19/2009*	*11/19/2009*
					Duplicate
Parameters	*Units*				
Volatile Organic Compounds					
1,1,1-Trichloroethane	ppbv	0.080 U	0.080 U	0.080 U	0.080 U
1,1,2,2-Tetrachloroethane	ppbv	0.080 U	0.080 U	0.080 U	0.080 U
1,1,2-Trichloroethane	ppbv	0.088	0.080 U	0.080 U	0.080 U
1,1-Dichloroethane	ppbv	0.062 J	0.080 U	0.080 U	0.080 U
1,1-Dichloroethene	ppbv	0.080 U	0.080 U	0.080 U	0.080 U
1,2,4-Trichlorobenzene	ppbv	0.40 U	0.40 U	0.40 U	0.40 U
1,2,4-Trimethylbenzene	ppbv	0.15	0.037 J	0.088	0.39
1,2-Dibromoethane (Ethylene Dibromide)	ppbv	0.080 U	0.080 U	0.080 U	0.080 U
1,2-Dichlorobenzene	ppbv	0.080 U	0.080 U	0.080 U	0.080 U
1,2-Dichloroethane	ppbv	0.88	0.080 U	0.080 U	0.080 U
1,2-Dichloropropane	ppbv	0.080 U	0.080 U	0.080 U	0.080 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppbv	0.080 U	0.080 U	0.080 U	0.080 U
1,3,5-Trimethylbenzene	ppbv	0.048 J	0.080 U	0.032 J	0.12
1,3-Dichlorobenzene	ppbv	0.080 U	0.080 U	0.080 U	0.080 U
1,4-Dichlorobenzene	ppbv	0.080 U	0.029 J	0.080 U	0.080 U
1,4-Dioxane	ppbv	0.20 U	0.20 U	0.20 U	0.20 U
2,2,4-Trimethylpentane	ppbv	0.11 J	0.20 U	0.24	0.21
2-Butanone (Methyl Ethyl Ketone)	ppbv	1.9	0.64	1.0	0.91
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ppbv	0.17 J	0.044 J	0.077 J	0.063 J
Benzene	ppbv	0.56	0.12	0.63	0.59
Benzyl Chloride	ppbv	0.16 U	0.16 U	0.16 U	0.16 U
Bromodichloromethane	ppbv	0.047 J	0.10	0.080 U	0.080 U
Bromoform	ppbv	0.080 U	0.080 U	0.080 U	0.080 U
Bromomethane (Methyl Bromide)	ppbv	0.080 U	0.080 U	0.080 U	0.080 U
Carbon tetrachloride	ppbv	0.074 J	0.16	0.082	0.058 J
Chlorobenzene	ppbv	0.051 J	0.080 U	0.080 U	0.080 U
Chloroethane	ppbv	0.080 U	0.080 U	0.080 U	0.080 U
Chloroform (Trichloromethane)	ppbv	0.19	0.75	0.023 J	0.020 J
Chloromethane (Methyl Chloride)	ppbv	0.54	0.076 J	0.54	0.56
cis-1,2-Dichloroethene	ppbv	0.029 J	0.080 U	0.080 U	0.080 U
cis-1,3-Dichloropropene	ppbv	0.080 U	0.080 U	0.080 U	0.080 U

TABLE 3A

ANALYTICAL RESULTS SUMMARY
SOIL VAPOR INTRUSION INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
DECEMBER 2009

Location ID:	*138 Harrison*	*138 Harrison*	*Up Wind*	*Up Wind*
Sample Name:	*IA-37191-111809-JDW-003*	*SS-37191-111809-JDW-004*	*OA-37191-111809-JDW-001*	*OA-37191-111809-JDW-002*
Sample Date:	*11/19/2009*	*11/19/2009*	*11/19/2009*	*11/19/2009*
				Duplicate
Parameters	*Units*			
Volatile Organic Compounds (Cont'd.)				
Cyclohexane	ppbv	0.14 J	0.20 U	0.19 J	0.18 J
Dibromochloromethane	ppbv	0.080 U	0.080 U	0.080 U	0.080 U
Dichlorodifluoromethane (CFC-12)	ppbv	0.45	0.33	0.43	0.44
Ethylbenzene	ppbv	0.24	0.041 J	0.27	0.28
Hexachlorobutadiene	ppbv	0.40 U	0.40 U	0.40 U	0.40 U
Hexane	ppbv	0.72	0.20	0.67	0.62
m&p-Xylene	ppbv	0.73	0.13	0.84	0.99
Methyl Tert Butyl Ether	ppbv	0.40 U	0.40 U	0.40 U	0.40 U
Methylene chloride	ppbv	1.0	0.39	0.76	0.50
o-Xylene	ppbv	0.25	0.050 J	0.28	0.38
Styrene	ppbv	0.59	0.028 J	0.59	0.96
Tert-Butyl Alcohol	ppbv	0.11 J	0.12 J	0.070 J	0.048 J
Tetrachloroethene	ppbv	0.075 J	0.12	0.13	0.12
Toluene	ppbv	1.5	0.30	1.9	1.7
trans-1,2-Dichloroethene	ppbv	0.080 U	0.080 U	0.080 U	0.080 U
trans-1,3-Dichloropropene	ppbv	0.080 U	0.080 U	0.080 U	0.080 U
Trichloroethene	ppbv	0.072	0.032 J	0.076	0.062
Trichlorofluoromethane (CFC-11)	ppbv	0.25	0.23	0.26	0.23
Trifluorotrichloroethane (Freon 113)	ppbv	0.19	0.099	0.14	0.14
Vinyl chloride	ppbv	0.080 U	0.080 U	0.080 U	0.080 U
Helium	%	--	0.59	--	--

Notes:

J - Estimated.
U - Not detected.

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL VAPOR INTRUSION INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
DECEMBER 2009

Location ID:	*82 Harrison*	*82 Harrison*	*82 Harrison*	*103 Harrison*
Sample Name:	*IA-37191-111809-JDW-002*	*SS-37191-111809-JDW-002*	*SS-37191-111809-JDW-003*	*IA-37191-111809-JDW-001*
Sample Date:	*11/19/2009*	*11/19/2009*	*11/19/2009*	*11/19/2009*
			Duplicate	
Parameters	*Units*			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/m3	0.44 U	0.90	0.85	0.44 U
1,1,2,2-Tetrachloroethane	µg/m3	0.55 U	0.55 U	0.55 U	0.55 U
1,1,2-Trichloroethane	µg/m3	0.44 U	0.44 U	0.44 U	0.44 U
1,1-Dichloroethane	µg/m3	0.32 U	0.32 U	0.32 U	0.32 U
1,1-Dichloroethene	µg/m3	0.32 U	0.32 U	0.32 U	0.32 U
1,2,4-Trichlorobenzene	µg/m3	3.0 U	3.0 U	3.0 U	3.0 U
1,2,4-Trimethylbenzene	µg/m3	1.2	1.1	3.1	9.4
1,2-Dibromoethane (Ethylene Dibromide)	µg/m3	0.61 U	0.61 U	0.61 U	0.61 U
1,2-Dichlorobenzene	µg/m3	0.48 U	0.48 U	0.48 U	0.48 U
1,2-Dichloroethane	µg/m3	0.32 U	0.32 U	0.32 U	0.34
1,2-Dichloropropane	µg/m3	0.37 U	0.37 U	0.37 U	0.37 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m3	0.12 J	0.10 J	0.098 J	0.11 J
1,3,5-Trimethylbenzene	µg/m3	0.39 J	0.32 J	0.92	3.6
1,3-Dichlorobenzene	µg/m3	0.48 U	0.48 U	0.48 U	0.48 U
1,4-Dichlorobenzene	µg/m3	0.31 J	0.48 U	0.48 U	0.42 J
1,4-Dioxane	µg/m3	0.72 U	0.72 U	0.72 U	0.72 U
2,2,4-Trimethylpentane	µg/m3	0.69 J	0.088 J	0.18 J	0.70 J
2-Butanone (Methyl Ethyl Ketone)	µg/m3	2.9	2.0	1.6	18
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/m3	0.68 J	0.26 J	0.24 J	2.0
Benzene	µg/m3	1.3	0.41	0.40	1.8
Benzyl Chloride	µg/m3	0.83 U	0.83 U	0.83 U	0.83 U
Bromodichloromethane	µg/m3	0.13 J	0.54 U	0.54 U	1.5
Bromoform	µg/m3	0.83 U	0.83 U	0.83 U	0.83 U
Bromomethane (Methyl Bromide)	µg/m3	0.31 U	0.31 U	0.31 U	0.31 U
Carbon tetrachloride	µg/m3	0.48 J	0.19 J	0.19 J	0.49 J
Chlorobenzene	µg/m3	0.37 U	0.37 U	0.37 U	0.37 U
Chloroethane	µg/m3	0.049 J	0.21 U	0.21 U	0.21 U
Chloroform (Trichloromethane)	µg/m3	0.32 J	0.13 J	0.13 J	4.1
Chloromethane (Methyl Chloride)	µg/m3	0.88	0.15 J	0.14 J	1.4
cis-1,2-Dichloroethene	µg/m3	0.32 U	0.35	0.32 U	2.3
cis-1,3-Dichloropropene	µg/m3	0.36 U	0.36 U	0.36 U	0.36 U

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL VAPOR INTRUSION INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
DECEMBER 2009

	Location ID:	*82 Harrison*	*82 Harrison*	*82 Harrison*	*103 Harrison*
	Sample Name:	*IA-37191-111809-JDW-002*	*SS-37191-111809-JDW-002*	*SS-37191-111809-JDW-003*	*IA-37191-111809-JDW-001*
	Sample Date:	*11/19/2009*	*11/19/2009*	*11/19/2009*	*11/19/2009*
				Duplicate	
Parameters	*Units*				
Volatile Organic Compounds (Cont'd.)					
Cyclohexane	µg/m3	0.44 J	0.23 J	0.26 J	5.0
Dibromochloromethane	µg/m3	0.68 U	0.68 U	0.68 U	0.49 J
Dichlorodifluoromethane (CFC-12)	µg/m3	2.2	2.3	2.2	2.0
Ethylbenzene	µg/m3	1.0	0.38	1.1	11
Hexachlorobutadiene	µg/m3	4.3 U	4.3 U	4.3 U	4.3 U
Hexane	µg/m3	1.8	0.78	0.88	2.9
m&p-Xylene	µg/m3	3.4	1.6	7.8	38
Methyl Tert Butyl Ether	µg/m3	1.4 U	1.4 U	1.4 U	1.4 U
Methylene chloride	µg/m3	2.0	0.79 U	1.1	150
o-Xylene	µg/m3	1.2	0.64	2.6	11
Styrene	µg/m3	1.2	0.100 J	0.11 J	1.6
Tert-Butyl Alcohol	µg/m3	0.18 J	0.13 J	0.18 J	0.71 J
Tetrachloroethene	µg/m3	0.49 J	0.97	0.50 J	0.87
Toluene	µg/m3	5.1	1.5	2.7	24
trans-1,2-Dichloroethene	µg/m3	0.32 U	0.32 U	0.32 U	0.32 U
trans-1,3-Dichloropropene	µg/m3	0.36 U	0.36 U	0.36 U	0.36 U
Trichloroethene	µg/m3	0.41	1.8	0.29	15
Trichlorofluoromethane (CFC-11)	µg/m3	36	11	10	5.2
Trifluorotrichloroethane (Freon 113)	µg/m3	0.59 J	0.51 J	0.49 J	0.68
Vinyl chloride	µg/m3	0.20 U	0.20 U	0.20 U	0.20 U
Helium	µg/m3	--	0.51	0.52	--

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL VAPOR INTRUSION INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
DECEMBER 2009

Parameters	*Units*	*Location ID:* *103 Harrison* *Sample Name:* *SS-37191-111809-JDW-001* *Sample Date:* *11/19/2009*	*127 Harrison Front* *IA-37191-111809-JDW-004* *11/19/2009*	*127 Harrison Front* *IA-37191-111809-JDW-005* *11/19/2009* *Duplicate*	*127 Harrison Front* *SS-37191-111809-JDW-005* *11/19/2009*
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/m3	0.44 U	0.96	0.96	440 U
1,1,2,2-Tetrachloroethane	µg/m3	0.55 U	0.55 U	0.55 U	550 U
1,1,2-Trichloroethane	µg/m3	0.44 U	0.44 U	0.44 U	440 U
1,1-Dichloroethane	µg/m3	0.32 U	0.32 U	0.32 U	320 U
1,1-Dichloroethene	µg/m3	0.32 U	0.30 J	0.28 J	280 J
1,2,4-Trichlorobenzene	µg/m3	3.0 U	3.0 U	3.0 U	3000 U
1,2,4-Trimethylbenzene	µg/m3	0.94	8.4	3.7	390 U
1,2-Dibromoethane (Ethylene Dibromide)	µg/m3	0.61 U	0.61 U	0.61 U	620 U
1,2-Dichlorobenzene	µg/m3	0.48 U	0.48 U	0.48 U	480 U
1,2-Dichloroethane	µg/m3	0.32 U	0.32 U	0.32 U	320 U
1,2-Dichloropropane	µg/m3	0.37 U	0.37 U	0.37 U	370 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m3	0.56 U	0.56 U	0.56 U	560 U
1,3,5-Trimethylbenzene	µg/m3	0.34 J	2.9	1.6	390 U
1,3-Dichlorobenzene	µg/m3	0.48 U	0.48 U	0.48 U	480 U
1,4-Dichlorobenzene	µg/m3	0.48 U	0.20 J	0.48 U	480 U
1,4-Dioxane	µg/m3	0.72 U	0.72 U	0.72 U	720 U
2,2,4-Trimethylpentane	µg/m3	0.93 U	0.95	0.99	940 U
2-Butanone (Methyl Ethyl Ketone)	µg/m3	2.8	3.1	4.5	950 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/m3	0.26 J	0.77 J	0.90	820 U
Benzene	µg/m3	0.38	3.6	3.6	260 U
Benzyl Chloride	µg/m3	0.83 U	0.83 U	0.83 U	830 U
Bromodichloromethane	µg/m3	0.54 U	0.54 U	0.54 U	540 U
Bromoform	µg/m3	0.83 U	0.83 U	0.83 U	830 U
Bromomethane (Methyl Bromide)	µg/m3	0.31 U	0.31 U	0.31 U	310 U
Carbon tetrachloride	µg/m3	0.31 J	0.47 J	0.47 J	500 U
Chlorobenzene	µg/m3	0.37 U	0.37 U	0.37 U	370 U
Chloroethane	µg/m3	0.21 U	0.21 U	0.21 U	210 U
Chloroform (Trichloromethane)	µg/m3	0.29 J	0.38 J	0.41	390 U
Chloromethane (Methyl Chloride)	µg/m3	0.27 J	1.4	1.4	410 U
cis-1,2-Dichloroethene	µg/m3	0.32 U	57	55	54000
cis-1,3-Dichloropropene	µg/m3	0.36 U	0.36 U	0.36 U	360 U

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL VAPOR INTRUSION INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
DECEMBER 2009

Parameters	*Units*	*Location ID:* *103 Harrison* *Sample Name:* *SS-37191-111809-JDW-001* *Sample Date:* *11/19/2009*	*127 Harrison Front* *IA-37191-111809-JDW-004* *11/19/2009*	*127 Harrison Front* *IA-37191-111809-JDW-005* *11/19/2009* *Duplicate*	*127 Harrison Front* *SS-37191-111809-JDW-005* *11/19/2009*
Volatile Organic Compounds (Cont'd.)					
Cyclohexane	µg/m3	0.96	1.2	0.86	690 U
Dibromochloromethane	µg/m3	0.68 U	0.68 U	0.68 U	680 U
Dichlorodifluoromethane (CFC-12)	µg/m3	1.2	4.7	4.7	400 U
Ethylbenzene	µg/m3	0.62	2.4	2.3	350 U
Hexachlorobutadiene	µg/m3	4.3 U	4.3 U	4.3 U	4300 U
Hexane	µg/m3	0.86	4.3	4.0	80 J
m&p-Xylene	µg/m3	2.2	8.7	8.1	350 U
Methyl Tert Butyl Ether	µg/m3	1.4 U	1.4 U	1.4 U	1400 U
Methylene chloride	µg/m3	0.69 U	3.5	2.9	430 J
o-Xylene	µg/m3	0.72	3.6	3.2	350 U
Styrene	µg/m3	0.19 J	2.0	1.5	340 U
Tert-Butyl Alcohol	µg/m3	0.22 J	0.21 J	0.33 J	970 U
Tetrachloroethene	µg/m3	0.36 J	3.1	3.5	780
Toluene	µg/m3	2.2	11	11	300 U
trans-1,2-Dichloroethene	µg/m3	0.32 U	1.0	0.98	1000
trans-1,3-Dichloropropene	µg/m3	0.36 U	0.36 U	0.36 U	360 U
Trichloroethene	µg/m3	0.17 J	78	77	73000
Trichlorofluoromethane (CFC-11)	µg/m3	4.5	2.7	2.7	450 U
Trifluorotrichloroethane (Freon 113)	µg/m3	0.60 J	1.1	1.1	610 U
Vinyl chloride	µg/m3	0.20 U	0.20 U	0.20 U	200 U
Helium	µg/m3	0.24 U	--	--	0.72

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL VAPOR INTRUSION INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
DECEMBER 2009

	Location ID:	*138 Harrison*	*138 Harrison*	*Up Wind*	*Up Wind*
	Sample Name:	*IA-37191-111809-JDW-003*	*SS-37191-111809-JDW-004*	*OA-37191-111809-JDW-001*	*OA-37191-111809-JDW-002*
	Sample Date:	*11/19/2009*	*11/19/2009*	*11/19/2009*	*11/19/2009*
					Duplicate
Parameters	*Units*				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/m3	0.44 U	0.44 U	0.44 U	0.44 U
1,1,2,2-Tetrachloroethane	µg/m3	0.55 U	0.55 U	0.55 U	0.55 U
1,1,2-Trichloroethane	µg/m3	0.48	0.44 U	0.44 U	0.44 U
1,1-Dichloroethane	µg/m3	0.25 J	0.32 U	0.32 U	0.32 U
1,1-Dichloroethene	µg/m3	0.32 U	0.32 U	0.32 U	0.32 U
1,2,4-Trichlorobenzene	µg/m3	3.0 U	3.0 U	3.0 U	3.0 U
1,2,4-Trimethylbenzene	µg/m3	0.73	0.18 J	0.43	1.9
1,2-Dibromoethane (Ethylene Dibromide)	µg/m3	0.61 U	0.61 U	0.61 U	0.61 U
1,2-Dichlorobenzene	µg/m3	0.48 U	0.48 U	0.48 U	0.48 U
1,2-Dichloroethane	µg/m3	3.6	0.32 U	0.32 U	0.32 U
1,2-Dichloropropane	µg/m3	0.37 U	0.37 U	0.37 U	0.37 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m3	0.56 U	0.56 U	0.56 U	0.56 U
1,3,5-Trimethylbenzene	µg/m3	0.23 J	0.39 U	0.16 J	0.60
1,3-Dichlorobenzene	µg/m3	0.48 U	0.48 U	0.48 U	0.48 U
1,4-Dichlorobenzene	µg/m3	0.48 U	0.17 J	0.48 U	0.48 U
1,4-Dioxane	µg/m3	0.72 U	0.72 U	0.72 U	0.72 U
2,2,4-Trimethylpentane	µg/m3	0.54 J	0.93 U	1.1	1.00
2-Butanone (Methyl Ethyl Ketone)	µg/m3	5.7	1.9	3.0	2.7
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	µg/m3	0.70 J	0.18 J	0.32 J	0.26 J
Benzene	µg/m3	1.8	0.39	2.0	1.9
Benzyl Chloride	µg/m3	0.83 U	0.83 U	0.83 U	0.83 U
Bromodichloromethane	µg/m3	0.32 J	0.68	0.54 U	0.54 U
Bromoform	µg/m3	0.83 U	0.83 U	0.83 U	0.83 U
Bromomethane (Methyl Bromide)	µg/m3	0.31 U	0.31 U	0.31 U	0.31 U
Carbon tetrachloride	µg/m3	0.47 J	1.0	0.52	0.36 J
Chlorobenzene	µg/m3	0.24 J	0.37 U	0.37 U	0.37 U
Chloroethane	µg/m3	0.21 U	0.21 U	0.21 U	0.21 U
Chloroform (Trichloromethane)	µg/m3	0.93	3.7	0.11 J	0.099 J
Chloromethane (Methyl Chloride)	µg/m3	1.1	0.16 J	1.1	1.2
cis-1,2-Dichloroethene	µg/m3	0.11 J	0.32 U	0.32 U	0.32 U
cis-1,3-Dichloropropene	µg/m3	0.36 U	0.36 U	0.36 U	0.36 U

TABLE 3B

ANALYTICAL RESULTS SUMMARY
SOIL VAPOR INTRUSION INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
DECEMBER 2009

	Location ID:	*138 Harrison*	*138 Harrison*	*Up Wind*	*Up Wind*
	Sample Name:	*IA-37191-111809-JDW-003*	*SS-37191-111809-JDW-004*	*OA-37191-111809-JDW-001*	*OA-37191-111809-JDW-002*
	Sample Date:	*11/19/2009*	*11/19/2009*	*11/19/2009*	*11/19/2009*
					Duplicate
Parameters	*Units*				
Volatile Organic Compounds (Cont'd.)					
Cyclohexane	µg/m3	0.48 J	0.69 U	0.66 J	0.62 J
Dibromochloromethane	µg/m3	0.68 U	0.68 U	0.68 U	0.68 U
Dichlorodifluoromethane (CFC-12)	µg/m3	2.2	1.6	2.1	2.2
Ethylbenzene	µg/m3	1.1	0.18 J	1.2	1.2
Hexachlorobutadiene	µg/m3	4.3 U	4.3 U	4.3 U	4.3 U
Hexane	µg/m3	2.5	0.71	2.4	2.2
m&p-Xylene	µg/m3	3.2	0.58	3.6	4.3
Methyl Tert Butyl Ether	µg/m3	1.4 U	1.4 U	1.4 U	1.4 U
Methylene chloride	µg/m3	3.5	1.3	2.6	1.7
o-Xylene	µg/m3	1.1	0.22 J	1.2	1.6
Styrene	µg/m3	2.5	0.12 J	2.5	4.1
Tert-Butyl Alcohol	µg/m3	0.32 J	0.35 J	0.21 J	0.15 J
Tetrachloroethene	µg/m3	0.51 J	0.80	0.91	0.82
Toluene	µg/m3	5.5	1.1	7.1	6.4
trans-1,2-Dichloroethene	µg/m3	0.32 U	0.32 U	0.32 U	0.32 U
trans-1,3-Dichloropropene	µg/m3	0.36 U	0.36 U	0.36 U	0.36 U
Trichloroethene	µg/m3	0.39	0.17 J	0.41	0.33
Trichlorofluoromethane (CFC-11)	µg/m3	1.4	1.3	1.5	1.3
Trifluorotrichloroethane (Freon 113)	µg/m3	1.4	0.76	1.1	1.1
Vinyl chloride	µg/m3	0.20 U	0.20 U	0.20 U	0.20 U
Helium	µg/m3	--	0.59	--	--

Notes:

J - Estimated.
U - Not detected.

TABLE 4

QUALIFIED SAMPLE RESULTS DUE TO ANALYTE CONCENTRATIONS IN THE METHOD BLANKS
SOIL VAPOR INTRUSION INVESTIGATION
FORMER BUFFALO CHINA SITE
BUFFALO, NEW YORK
DECEMBER 2009

Parameter	*Analysis Date*	*Analyte*	*Blank Result*	*Sample ID*	*Qualified Sample Result*	*Units*
VOCs	11/26/2009	Methylene chloride	0.36J	SS-37191-111809-JDW-001	0.36 U	ppbv
VOCs	11/27/2009	Methylene chloride	0.14J	SS-37191-111809-JDW-002	0.23 U	ppbv

Notes:

J Estimated.
U Not detected.
VOCs Volatile Organic Compounds.

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MEMORANDUM

TO:	File	REF. NO.:	37191
FROM:	Dan Smith	DATE:	2/4/2010
C.C.:	C. Barton		
RE:	Addendum to FWIA for the Former Buffalo China Site		

In April 2008, CRA conducted a Fish and Wildlife Impact Assessment (FWIA) for the Former Buffalo China Site, 51 Hayes Place, Buffalo, NY (CRA 2008). Based on soil and groundwater data collected until the end of April, CRA concluded the following:

> "The objectives of the FWIA were to identify fish and wildlife resources that presently exist and that existed before contamination introduction on a site, and to provide information for the design of a remedial investigation. Upon review of the Buffalo China Site, CRA has concluded no impact to fish and wildlife on or near the Site due to dense urbanization and lack of natural habitats surrounding the Site. However, to be conservative CRA completed the additional relevant steps of the FWIA. Based on this analysis CRA concludes that the planned remedial actions will not harm fish or wildlife and will result in the removal or isolation of site-related contaminants, thus preventing future off-site migration of site-related contaminants and impacts to natural resources."

The FWIA was submitted to NYSDEC as part if the Interim Site Investigation Report prepared by CRA dated July 2008. However, some additional samples of surface soil were collected from both on – and off-Site areas and additional sampling of groundwater has also occurred. In the interests of conservatism and completeness, these additional sampling data are screened for potential ecological risks. However, as described in the FWIA, there is effectively no potential for exposure to ecological receptors.

The listings of additional samples are presented in Table 1 for soil and Table 2 for both overburden and bedrock groundwater. The resulting detected chemicals are screened in Tables 3 (soil), Table 4 (overburden groundwater), and Table 5 (bedrock groundwater). For soil, the only compound screened was lead. Ecological Screening Values (ESVs) were obtained from the same sources as before. However, two new compounds, cyclohexane and methyl-cyclohexane, were detected in more recent samples. These compounds did not have ESVs in the sources previously described. Therefore, ESVs for these compounds were based on methods presented in EPA (2008).

As in the original FWIA, lead in soil exceeded the conservative ESV. However, off-site lead concentrations were lower than those measured on-site. As with on-site lead exceedances, however, potential ecological risks at off-site soil locations can be dismissed because of the lack of habitat and exposure. As with the original FWIA, groundwater concentrations of chlorinated solvents and BTEX compounds were also higher than ESVs. Again, however, as discussed in the FWIA, the groundwater plume is far from any surface water. Thus, there is little potential for exposure or ecological risk from these elevated VOC concentrations.

References:

CRA April 2008. Fish and Wildlife Impact Assessment for the Former Buffalo China Site.

USEPA, 2008. Procedures for the Derivation of Equilibrium Partitioning Sediment Benchmarks (ESBs) for the Protection of Benthic Organisms: Compendium of Tier 2 Values for Nonionic Organics. EPA-600-R-02-016. Office of Research and Development. Washington, DC 20460

TABLE 1

LIST OF ADDITIONAL SURFACE SOILS COLLECTED AFTER MAY 2008
BROWNFIELD CLEANUP SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)

Address	*Sample Location*	*Sample Date*	*Depth of Sample*
82 Harrison Street	SS-17	8/13/2008	0 - 0.17 ft bgs
82 Harrison Street	SS-17	8/13/2008	0.17 - 0.33 ft bgs
82 Harrison Street	SS-18	8/13/2008	0 - 0.17 ft bgs
82 Harrison Street	SS-18	8/13/2008	0.17 - 0.33 ft bgs
118 Harrison Street	SS-19)	8/13/2008	0 - 0.17 ft bgs
118 Harrison Street	SS-19	8/13/2008	0.17 - 0.33 ft bgs
118 Harrison Street	SS-20	8/13/2008	0 - 0.17 ft bgs
118 Harrison Street	SS-20	8/13/2008	0.17 - 0.33 ft bgs
118 Harrison Street	SS-21	8/13/2008	0 - 0.17 ft bgs
118 Harrison Street	SS-21	8/13/2008	0.17 - 0.33 ft bgs
118 Harrison Street	SS-22	8/13/2008	0 - 0.17 ft bgs
118 Harrison Street	SS-22	8/13/2008	0.17 - 0.33 ft bgs
118 Harrison Street	SS-23	8/13/2008	0 - 0.17 ft bgs
118 Harrison Street	SS-23	8/13/2008	0.17 - 0.33 ft bgs
118 Harrison Street	SS-24	8/13/2008	0 - 0.17 ft bgs
118 Harrison Street	SS-24	8/13/2008	0.17 - 0.33 ft bgs
66 Lester Street	SS-25	8/13/2008	0 - 0.17 ft bgs
66 Lester Street	SS-25	8/13/2008	0.17 - 0.33 ft bgs
66 Lester Street	SS-25	8/13/2008	0 - 0.17 ft bgs
66 Lester Street	SS-25	8/13/2008	0.17 - 0.33 ft bgs
66 Lester Street	SS-25	8/13/2008	0.17 - 0.33 ft bgs

TABLE 2

LIST OF ADDITIONAL GROUNDWATER SAMPLES
COLLECTED AFTER MAY 2008
BROWNFIELD CLEANUP SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)

Bedrock

Location	*Date*	
MW-5A	1/20/2009	
MW-5A	7/22/2009	
MW-5A	7/22/2009	Duplicate
MW-6	8/20/2007	
MW-6A	7/22/2009	
MW-7A	1/21/2009	
MW-7A	7/22/2009	
MW-8	8/20/2007	
MW-9	8/20/2007	
MW-9A	1/19/2009	
MW-9A	7/21/2009	
MW-13A	1/19/2009	
MW-13A	7/22/2009	
MW-14A	1/22/2009	
MW-14A	7/20/2009	
MW-15A	1/23/2009	
MW-15A	7/20/2009	
MW-18A	7/22/2009	
MW-19A	7/20/2009	
MW-20A	7/22/2009	
MW-21A	7/21/2009	
MW-21A	7/21/2009	Duplicate
MW-22	7/20/2009	
MW-22A	7/20/2009	
MW-23A	7/20/2009	
MW-23A	7/20/2009	Duplicate
MW-24A	7/20/2009	
MW-25A	7/20/2009	

Overburden

Location	*Date*	
MW-12	1/13/2009	
MW-18	1/13/2009	
MW-18	1/13/2009	Duplicate
MW-4	1/13/2009	
MW-9	1/19/2009	
MW-17	1/20/2009	
MW-5	1/20/2009	
MW-6	1/20/2009	
MW-7	1/21/2009	
MW-10	1/22/2009	
MW-11	1/22/2009	
MW-11	1/22/2009	Duplicate
MW-8	3/5/2009	
MW-10	7/20/2009	
MW-11	7/20/2009	
MW-17	7/20/2009	
MW-19	7/20/2009	
MW-22	7/20/2009	
MW-8	7/21/2009	
MW-9	7/21/2009	
MW-12	7/22/2009	
MW-18	7/22/2009	
MW-20	7/22/2009	
MW-4	7/22/2009	
MW-5	7/22/2009	
MW-6	7/22/2009	
MW-7	7/22/2009	
MW-10	9/19/2008	
MW-11	9/19/2008	

TABLE 3

SCREENING OF LEAD IN ADDITIONAL SURFACE SOILS COLLECTED AFTER MAY 2008
BROWNFIELD CLEANUP SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)

Metals	Units	Samples #	FOD	mean detected	max detected	ESV	source 1	mean SQ	max SQ
Lead	mg/kg	19	1	183.7421053	356	11	Eco-SSL	16.703828	32.363636

1. USEPA, 2008. Procedures for the Derivation of Equilibrium Partitioning Sediment Benchmarks (ESBs) for the Protection of Benthic Organisms: Compendium of Tier 2 Values for Nonionic Organics. EPA-600-R-02-016. Office of Research and Development. Washington, DC 20460

TABLE 4

SCREENING OF VOCs IN ADDITIONAL OVERBURDEN GROUNDWATER SAMPLES COLLECTED AFTER MAY 2008
BROWNFIELD CLEANUP SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)

Parmeter		Samples #	FOD	mean	max detected	ESV	source [1]	mean SQ	max SQ
1,1-Dichloroethene	ug/L	29	7%	0	2	65	EPA Region V	0	0
2-Butanone (Methyl Ethyl Ketone)	ug/L	29	7%	0	4	2200	EPA Region V	0	0
Acetone	ug/L	29	7%	1	12	1700	EPA Region V	0	0
cis-1,2-Dichloroethene	ug/L	29	62%	22141	320000	5500	MDEQ	**4**	**58**
Cyclohexane	ug/L	29	3%	0	4	328	EPA 2008	0	0
Methyl cyclohexane	ug/L	29	3%	0	4	264	EPA 2008	0	0
Tetrachloroethene	ug/L	29	7%	2	63	45	EPA Region V	0	**1**
Toluene	ug/L	29	7%	3311	96000	253	EPA Region V	**13**	**379**
trans-1,2-Dichloroethene	ug/L	29	17%	2	29	14000	MDEQ	0	0
Trichloroethene	ug/L	29	76%	34439	560000	47	EPA Region V	**733**	**11915**
Vinyl chloride	ug/L	29	7%	1	15	930	EPA Region V	0	0
Xylene (total)	ug/L	29	10%	586	17000	27	EPA Region V	**22**	**630**

1. USEPA, 2008. Procedures for the Derivation of Equilibrium Partitioning Sediment Benchmarks (ESBs) for the Protection of Benthic Organisms: Compendium of Tier 2 Values for Nonionic Organics. EPA-600-R-02-016. Office of Research and Development. Washington, DC 20460

TABLE 5

SCREENING OF VOCs IN BEDROCK GROUNDWATER
BROWNFIELD CLEANUP SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)

VOCs	Units	Samples #	FOD	mean detected	max detected	ESV	source [1]	mean SQ	max SQ
1,1-Dichloroethane		25	4%	0	1	47	EPA Region V	0.0	0.0
1,1-Dichloroethene		25	8%	2	40	65	EPA Region V	0.0	0.6
1,2-Dichloroethane		25	4%	13	320	910	EPA Region V	0.0	0.4
2-Butanone (Methyl Ethyl Ketone)		25	8%	1	20	2200	EPA Region V	0.0	0.0
4-Methyl-2-Pentanone (Methyl Isobutyl K		25	4%	5	120	170	EPA Region V	0.0	0.7
Acetone		25	20%	17	280	1700	EPA Region V	0.0	0.2
Chloroform (Trichloromethane)		25	4%	0	3	140	EPA Region V	0.0	0.0
cis-1,2-Dichloroethene		25	68%	8969	71000	5500	MDEQ	**1.6**	**12.9**
Cyclohexane		25	32%	13	290	328	EPA 2008	0.0	0.9
Ethylbenzene		25	8%	0	3	14	EPA Region V	0.0	0.2
Methyl cyclohexane		25	24%	6	130	264	EPA 2008	0.0	0.5
Methylene chloride		25	12%	13	240	940	EPA Region V	0.0	0.3
Tetrachloroethene		25	12%	2	45	45	EPA Region V	0.0	1.0
Toluene		25	8%	1	24	253	EPA Region V	0.0	0.1
trans-1,2-Dichloroethene		25	28%	18	350	14000	MDEQ	0.0	0.0
Trichloroethene		25	68%	23339	290000	47	EPA Region V	**496.6**	**6170.2**
Vinyl chloride		25	28%	65	850	930	EPA Region V	0.1	0.9
Xylene (total)		25	44%	61	1300	27	EPA Region V	**2.2**	**48.1**

1. USEPA, 2008. Procedures for the Derivation of Equilibrium Partitioning Sediment Benchmarks (ESBs) for the Protection of Benthic Organisms: Compendium of Tier 2 Values for Nonionic Organics. EPA-600-R-02-016. Office of Research and Development. Washington, DC 20460

APPENDIX H

FISH AND WILDLIFE IMPACT RECORDS

FISH AND WILDLIFE IMPACT ANALYSIS

FORMER BUFFALO CHINA SITE
51 HAYES PLACE
BUFFALO, NEW YORK

APRIL 2008
REF. NO. 037191
This report is printed on recycled paper.

EXECUTIVE SUMMARY

This report presents a Fish and Wildlife Impact Analysis (FWIA) for the former Buffalo China site (Site) located at 51 Hayes Place, Buffalo, New York. This FWIA follows the requirements as set forth in the *Fish and Wildlife Impact Analysis for Inactive Hazardous Waste Sites* guidance of the New York State Department of Environmental Conservation (NYSDEC). The objectives of the FWIA were to: identify the fish and wildlife resources that presently exist and that existed before contaminant introduction; provide information necessary for the design of a remedial investigation; determine the impacts of Site-related contaminants on fish and wildlife resources; and evaluate the effects of the remedial alternatives on the productivity and diversity of fish and wild resources.

Conestoga-Rovers & Associates (CRA) found that no fish or wildlife resources are associated with the Site, and there is minimal potential for contaminant migration to the Buffalo River, which is the nearest resource to the Site. Potential remedial actions being considered for the Site would ensure that Site-related contaminants do not reach ecological receptors in the future.

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APPENDICES

1.0 INTRODUCTION

1.1 BACKGROUND AND OBJECTIVES

This report presents a Fish and Wildlife Impact Analysis (FWIA) for the former Buffalo China site (Site) located at 51 Hayes Place, Buffalo, Erie County, New York. The property is currently owned by Niagara Ceramics and is located at 51 Hayes Place, Buffalo, New York, as shown on Figure 1. In March 2004, Buffalo China sold the property to Niagara Ceramics and retained liability for environmental impairment of the Site and adjacent properties impacted by the Site prior to the sale. Buffalo China has entered into a Brownfield Cleanup Agreement (BCA) with the New York State Department of Environmental Conservation (NYSDEC) to investigate and remediate, as appropriate, potential areas of environmental concern associated with the Site.

Generally, this FWIA follows the requirements as set forth in the *Fish and Wildlife Impact Analysis for Inactive Hazardous Waste Sites* guidance issued by NYSDEC dated October 1994. In accordance with the guidance, the objectives of the FWIA are:

- identify the fish and wildlife resources that presently exist and that existed before contaminant introduction (Step I);
- provide information necessary for the design of a remedial investigation (Step I);
- determine the impacts of Site-related contaminants on fish and wildlife resources (Step II); and
- evaluate the effects of the remedial alternatives on the productivity and diversity of fish and wildlife resources (Step III).

If no resources are associated with the Site or if there is no potential for contaminant migration to the resources, then only Step 1 of the FWIA must be completed with all the necessary information to support these conclusions.

1.2 REPORT ORGANIZATION

In addition to the goals and objectives provided in Section 1.1, this Section also provides a general description of the Site and surrounding area.

1.3 SITE LOCATION

The former Buffalo China site (Site) is located at 51 Hayes Place, City of Buffalo, Erie County, New York. Figure 1 shows the location of the Site and a 2-mile radius. The Site comprises approximately 10 acres and is bounded on the north by railroad tracks, on the east by the adjoining Buffalo China Warehouse and other commercial/industrial facilities, and on the south and west by commercial, industrial, and residential properties. Interstate I-190 is located nearby to the south of the Site, while the City of Buffalo School 26 and adjacent playground is located a few hundred feet to the southwest. The nearest body of water is the Buffalo River, located approximately 0.25 mile south and east of the Site.

1.4 SITE DESCRIPTION

A site reconnaissance of the Site was conducted by CRA on April 3, 2008 to document habitat characteristics and identify potential ecological receptors, environmentally sensitive areas, and potentially complete exposure and contaminant migration pathways. Figure 1 shows the location of the Site, and the area within a 2-mile radius of the Site is inscribed. Figure 2 shows the Site and the area within a 0.5-mile radius. Color photographs were taken to document the existing conditions, and are provided in Appendix A.

The Site includes buildings, outdoor storage silos, a railroad spur, roadways, and parking areas. The manufacturing building is a multi-story structure covering approximately 4 acres. The building is connected to the Buffalo China Warehouse to the east. Another smaller building, referred to as the Harrison Street Warehouse, is located in the northwest end of the Site and covers an area of approximately 0.5 acre. The primary access to the Site is from Hayes Place (a street name) through the east side of the Site near the Buffalo China Warehouse. The property has been used for the manufacture of china for the past 100 plus years. During that time period, the manufacturing facility expanded to adjacent industrial properties, which included the Standard Mirror Company and Atlas Wrecking. The Harrison Street Warehouse was once part of the Standard Mirror facility.

Stormwater runoff from the Site is collected in municipal stormwater sewers. Figure 3 shows a drainage map of the Site and the various storm sewer inlets. The City has combined sewers in this location, and stormwater and sanitary wastewater is ultimately conveyed to the City's Bird Island Sewage Treatment Plant. The main sewer line that

serves the Site runs underneath Seneca Street. However, combined sewer overflows (CSOs) occur when the volume of stormwater exceeds the capacity of the sewers. When flows exceed capacity, regulators on the system discharge to surface water. There are numerous CSOs in various locations on the sewer system. Any overflows originating from the Seneca Street sewer will ultimately discharge to the Buffalo River at the Hamburg Street CSO. The Remedial Action Plan (RAP) for the Buffalo River identifies CSOs as a major impact to the River's water quality.

Ecologically, the Site is considered to be an unnatural habitat consisting of manmade structures such as industrial buildings, residences, roadways, railroads, and parking lots. Undisturbed natural habitat is lacking and replaced by manmade habitats dominated by ornamental plant species and early successional and invasive plant species. Mammalian wildlife species inhabiting these areas are those species found in close proximity to human settlements. Avian species consist of the usual bird fauna of cities and towns, as well as occasional seasonal neotropical migrants. Due to the small extent of undisturbed areas on the Site, very few individual animals could be supported by the Site's habitat. Aquatic habitat is lacking from the Site.

1.5 SURROUNDING LAND USE

The Site and surrounding land lie within the Erie-Ontario Lake Plain Province. This is an area with a small degree of relief occupying the Lake Erie plain. The Province was once a glacial lakebed. Soils are primarily a silt loam. Human activities and human modified habitat dominate in the Buffalo City area. Natural habitats are rare, and undisturbed habitats are non-existent.

Table 1 lists and Figure 2 shows each general cover-type within a 0.5-mile radius of the Site and also shows the acreage associated with each cover-type. The land within 0.5 mile of the Site consists of a mixture of urban land uses. There are residential areas with grass yards and shade trees. There are also commercial and industrial areas with impervious surfaces (paved roads, parking lots, and buildings). Urban manmade habitats account for 98 percent of the total 488 acres within the 0.5-mile radius of the Site.

To the immediate north of the Site are active railroad tracks with ruderal grasses and weeds. A narrow row of shrubs and saplings exists on both sides of the tracks. There is a school and grass playground to the southwest of the Site. Further from the Site, there are automobile junkyards to the southwest and a quarry to the northwest. There are

also vacant lots covered with a mixture of grasses, weeds, and bare soil. On either side of I-190, which is south of the Site, there are small grassy areas with a few trees and shrubs. There is also a small open field upland with a scattering of trees north of the Site.

Various small pocket parks exist in the vicinity of the Site. Houghton Park is located over a half mile from the Site to the southeast. The majority of the parks consist of athletic fields; however, there are some small fragmented wooded areas associated with the parks. Table 2 lists area parks and their features.

The nearest body of water to the Site is the Buffalo River. The Buffalo River watershed encompasses 447 square miles. NYSDEC has classified the river as a Class C waterbody, which stipulates that its beneficial uses are fishing with waters suitable for fish propagation and survival. In addition, Class C water quality should be suitable for primary and secondary contact recreation. However, other factors could limit use for these purposes. The Buffalo River in the vicinity of the Site is designated as a navigable channel and is maintained by the U.S. Army Corps of Engineers at a minimum depth of 22 feet. The shoreline is not natural and consists of moorings, bulkheads, pilings, and other structures on the bank. Fish and wildlife habitat is sparse in the lower section of the river, as are beds of emergent and submerged aquatic vegetation. Nearly the entire lower section of the river is located within a 2-mile radius of the Site (see Figure 1). Due to a northern bend in the river, the nearest area of the river is approximately 0.25 mile south of the Site.

The Buffalo River from roughly its confluence with Cazenovia Creek is designated as a Great Lakes Area of Concern (AOC) by the U.S.-Canada Great Lakes Water Quality Agreement. As required for all AOCs, a RAP was developed for the Buffalo River in 1989. The AOC encompasses 6.2 miles and is characterized by a highly urbanized and industrial lower watershed. The Buffalo China Site is located just upstream of the Buffalo River AOC and is not listed as a contributor to contamination in the river (Buffalo Niagara Riverkeeper 2005). The United States Environmental Protection Agency (USEPA) Great Lakes National Program Office (GLNPO) selected Friends of the Buffalo Niagara Rivers (now the Buffalo Niagara Riverkeeper) to coordinate the implementation of the Buffalo River RAP. Remedial activities are ongoing and focus on water quality monitoring, river bottom sediment monitoring and remediation, planning for the remediation of inactive hazardous waste sites, assessment of municipal and industrial wastewater treatment facilities and elimination of CSOs, and planning for the restoration of fish and wildlife habitat.

2.0 DESCRIPTION OF FISH AND WILDLIFE RESOURCES

2.1 FISH AND WILDLIFE RESOURCES AND COVER-TYPES

The only aquatic habitat in the vicinity of the Site is the Buffalo River. There are six known beneficial use impairments in the Buffalo River AOC. These are restrictions on fish consumption, fish tumors/other deformities, degradation of benthos, restrictions on dredging, degradation of aesthetics, and loss of fish and wildlife habitat. Factors affecting water quality in the Buffalo River AOC include industrial discharges, CSOs, agricultural runoff, inactive hazardous waste sites, stormwater runoff and failing septic systems, and re-suspension of historically contaminated sediments.

Water quality of the Buffalo River within the AOC is affected by low dissolved oxygen concentrations, turbidity, contamination by heavy metals (copper, iron, lead, mercury, and zinc), ammonia, and elevated fecal coliform bacteria (2005 RIBS, Riverkeeper 2005). A water quality investigation conducted in 2005 found no polychlorinated biphenyls (PCBs) or pesticides, one semi-volatile organic compound (SVOC) (bis (2-ethylhexyl) phthalate), and several metals in surface water (NYSDEC 2006). River sediments are contaminated with PCBs, polynuclear aromatic hydrocarbons (PAHs), metals, industrial organic chemicals, and cyanides. Recently deposited sediments were not as contaminated as deeper sediments; however, deep sediments may have been re-suspended during dredging operations.

Ongoing assessments of benthic macroinvertebrates, fish, bird, mammal, reptiles, and amphibian populations are conducted within the AOC. A benthic macroinvertebrate and fish study conducted during 2003-2004 (Irvine et al. 2005) found low fish diversity and dominance of the invertebrate community by pollution tolerant tubificid worms and midge larvae. Fish habitat is degraded due to dredging and shoreline alterations, and there is a fish advisory warning against consumption of carp due to elevated levels of PCBs (Buffalo Niagara Riverkeeper, 2005).

A Palustrine scrub/shrub wetland is shown on the National Wetlands Inventory (NWI) map just north of the Site; however, there is presently a building at that location. There are no other wetlands in the vicinity of the Site. However, there is a riparian area identified as a palustrine forested wetland on the NWI map located on the opposite (south) bank of the river associated with the Seneca Bluffs area.

A small portion of the Seneca Bluffs Area is located within the 0.5-mile radius of the Site on the opposite (south) side of the Buffalo River. Seneca Bluffs is a 15-acre floodplain

designated as palustrine forested wetland on the NWI map. There are several habitats in the area, including palustrine emergent wetland, forested floodplain, upland meadow, eroding bluff, and 2,500 feet of river shoreline. The area was identified as a unique and critical habitat that provided habitat for waterfowl, amphibians, fish, migratory birds, and wading birds. Mature cottonwood and willow trees are present in the area. Seneca Bluffs also serves as a recreational area for residents. The area is also within the Great Lakes migratory bird flyway. However, the Seneca Bluffs have been impacted by human activities. Its vegetation was dominated by invasive and non-native plant species, illegal dumping and litter were common, and off-road vehicles were impacting habitats (Buffalo Niagara Riverkeeper, 2005). The Seneca Bluffs restoration activities have reduced invasive vegetation and planted native plants, and seasonal aquatic habitats were constructed.

A portion of the Tifft Farm Nature Preserve is located within 2 miles southwest of the Site. This 264-acre preserve is designated a Significant Coastal Fish and Wildlife Habitat. It is one of the largest remaining wetland systems in the Lake Erie coastal region. The preserve wetlands provide habitat for a variety of species, such as waterfowl, shorebirds and migratory birds, muskrats, mink, reptiles, fish, and burrowing crayfish. There are also upland areas that provide habitat for birds, mammals and reptiles, as well as ponds that support warm water fish and amphibians. Several threatened and endangered species also reside on the preserve.

Upland natural habitats are for the most part non-existent within the 0.5-mile radius of the Site. Within the entire half mile area, there is only one upland forested area consisting of approximately 5 acres. This forested lot is surrounded by human activities.

2.2 FAUNA EXPECTED WITHIN EACH COVER TYPE AND AQUATIC HABITAT

Due to the limited natural habitats in the vicinity of the Site, fauna are expected to be restricted to those species well adapted to an urban setting, such as resident birds of urban areas and small rodents such as gray squirrels and house mice. Studies conducted on the Buffalo River show that there is low fish and invertebrate diversities in the river due to sediment and water column contamination and habitat degradation (Irvine et al. 2005; Buffalo Riverkeeper 2005).

Two New York State threatened bird species, the least bittern (*Ixobrychus exilis*) and pied billed grebe (*Podilymbus podiceps*), were reported by the New York Natural Heritage

Program as occurring within 2 miles of the Site. Neither of these species is expected to occur on or near the Site because the appropriate habitats (freshwater marshes, ponds, and lakes) are absent.

The unlisted but imperiled, devil crayfish (*Cambarus diogenes*), has also been found in a pond 2 miles from the Site at the Tifft Farm Nature Preserve. A special concern fish, the black redhorse (*Moxostoma duquesnei*), has been observed upstream of the Buffalo River AOC. Two unlisted mussels, the fragile papershell (*Leptodea fragilis*) and the pink heelsplitter (*Potamilus alatus*), have also been observed upstream of the AOC. None of these aquatic species are expected to occur within the vicinity of the Site. A letter from the New York Natural Heritage Program is in Appendix C.

2.3 OBSERVATIONS OF STRESS

During the Site visit, CRA did not observe any areas of noticeable stress in the vegetation due to Site operations. City vegetation is stressed by human activities to a certain extent and this level of stress is normally encountered. This stress may be manifested by stunted vegetation due to poor drainage or poor soil conditions, buildup of road deicing salts, and other factors. Aquatic stresses found in the Buffalo River were discussed above. These stresses are due in part to current conditions such as CSO discharges and poor habitat conditions due to over 100 years of industrial activities along the banks of the river.

3.0 DESCRIPTION OF FISH AND WILDLIFE RESOURCE VALUE

3.1 VALUE OF HABITAT TO ASSOCIATED FAUNA

The area surrounding the Site consists of residential, commercial, and industrial developments. There are some areas of mowed lawn and a small sparsely wooded area is located to the north of the Site. However, because food, shelter, and breeding/roosting habitat features are limited in the area surrounding the Site, use by wildlife is very limited.

A portion of the Seneca Bluffs area is located approximately 0.5 mile to the south of the Site. The area is currently used as a recreational area for residents (fishing, walking) and habitat for birds and other animals. The Seneca Bluffs area is just upstream of the uppermost end of the Buffalo River AOC. The Buffalo River AOC is distinguished by low fish and macroinvertebrate diversity, degraded habitat, low dissolved oxygen, and presence of PCBs, metals, and industrial organics in sediment. It can be assumed that the area of the river just upstream of the AOC is also degraded. A study conducted on the AOC determined that the water quality just below the confluence of the Buffalo River and Cazenovia Creek (downstream of the Site and Seneca Bluffs) was generally good, but fish and macroinvertebrate populations were impoverished (Irvine et al. 2005).

In summary, the area surrounding the Site offers limited habitat to species that may live in the Buffalo City area due to limited food, cover, and breeding sites. Most of the land surrounding the Site is industrial, commercial, or residential, and few areas of natural habitat exist. The Buffalo River has been severely degraded for several decades. The Seneca Bluffs area is located on the opposite bank of the Buffalo River as the Site; therefore, it is very unlikely that Site related chemicals could have affected Seneca Bluffs.

3.2 VALUE OF RESOURCES TO HUMANS

There are no current or potential uses of fish and wildlife resources by humans within 0.5 mile of the Site, except for a small area by the Buffalo River, which could be used for fishing. The Seneca Bluffs habitat restoration area is located to the south of the Site and can be used by humans for fishing, hiking, and wildlife observation. The area around the Site is too densely populated for hunting. Within 2 miles of the Site, there are additional recreational prospects for residents. There is a grass playground to the immediate southwest of the Site. Houghton Park is located to the southeast of the Site, with the majority of the park consisting of playing fields, with areas of the park near the

river forested. Several other small recreational parks are located within 2 miles of the Site. Several miles of the Buffalo River flow south of the Site, including parts of the river designated as an AOC. Studies of resident use of the river show that it is used for fishing, boating, swimming, and other activities (Irvine et al. 2005). There is a fish advisory on the Buffalo River stating that no one should consume carp from the river due to contamination by PCBs. Use of these natural resources is limited due to the urbanized nature of the area surrounding the Site, as well as the ongoing contamination of the Buffalo River by other sources.

4.0 IDENTIFICATION OF APPLICABLE FISH AND WILDLIFE REGULATORY CRITERIA

There are no terrestrial wildlife habitats, wetlands, or aquatic habitats on the Site that would be used by aquatic life or wildlife or humans. However, to remain conservative, the screening criteria listed in Table 3 should be used to screen surficial soil chemical parameters for future remediation decisions. In addition, groundwater parameters should be screened to surface water criteria. The screening of groundwater parameters to surface water criteria is a conservative approach that will protect aquatic life. There are no sediments associated with the Site.

For the purpose of this assessment, recent Site data were screened to ecological screening values. Table 4 presents the results of the screening. Lead, the only chemical analyzed for in soil, was screened against the Eco-SSL criteria produced by USEPA (USEPA 2005). Chemicals detected in groundwater were screened to surface water concentrations. The conservatism of this screening of groundwater with surface water ecological screening values (ESVs) should be emphasized. There will often be appreciable reductions in groundwater concentrations due to ongoing fate processes before the groundwater discharges to the nearest surface water where dilution is the primary reduction mechanism. No surface water discharges on the Site.

As a first choice, water quality criteria for aquatic life from New York were chosen for ESVs (NYDEC 2008). If no New York value was available, national water quality criteria (USEPA 2006) for freshwater were used. If no national chronic water quality criteria were available, ESVs from USEPA Region V (2003a) and the State of Michigan (MDEQ 2000) were employed. For PAHs, Final Chronic Values (FCV) for water were used (USEPA 2003b).

Most of the surface water quality criteria for metals are applicable to dissolved metals concentrations, because adsorbed and insoluble metals pose little to no risk (USEPA, 1993, 1999). For those ESVs based on dissolved metals, dissolved concentrations of metals in surface water were used.

5.0 CONTAMINANT-SPECIFIC IMPACT ASSESSMENT

5.1 PATHWAYS ANALYSIS

There are two possible pathways that contaminants may mobilize from the Site. Dissolved contaminants in groundwater may be transported through groundwater flow to the Buffalo River. The other pathway is through stormwater runoff where soil particles are suspended in runoff and transported to the Site's storm sewer system. However, there is no evidence that either of these pathways is transporting contaminants in significant concentrations to the Buffalo River. Contaminants in groundwater appear to be localized in one area of the Site. In addition dilution by upgradient groundwater will significantly dilute on-Site water as will dilution afforded by the river should contaminants ever reach the river. Once collected in the sewers, soil contaminants would be provided treatment and dilution by the Buffalo sewage treatment plant. Likewise, any discharges from CSOs would take place during heavy precipitation events when upstream dilution rate of the river will be extremely high. Based on this discussion, CRA does not believe that contaminants originating from the Site are impacting fish and wildlife habitats.

5.2 CRITERIA-SPECIFIC ANALYSIS

CRA screened groundwater data and surficial soil data against conservative screening criteria as discussed in Section 4.0. Data Tables are included as Appendix B. The results of the screening are shown in Table 4. Four volatile organic compounds (VOCs) detected in groundwater exceeded the ecological screening values as shown in Table 4. These compounds were 1,1,2-trichloroethane, cis-1,2-dichloroethene, tetrachloroethene, and trichloroethene. These compounds are industrial degreasers. The greatest concentrations of these compounds were located in one area of the Site, which may indicate a potential source area. Also exceeding screening were two SVOCs, benzo(b)fluoranthene and bis(2-ethylhexyl)phthalate. Another SVOC, caprolactam, was included because a screening value could not be found. In surficial soils lead exceeded its screening value.

6.0 ECOLOGICAL EFFECTS OF REMEDIAL ACTIONS

Remedial actions have not yet been finalized but may consist of one or more of the following: source removal, soil vapor extraction and vapor phase carbon treatment, on-Site groundwater treatment, and Site paving. None of these actions will have a adverse ecological impact on the Site. Remediation of the Site will result in eliminating any future potential pathways to ecological receptors.

7.0 FISH AND WILDLIFE REQUIREMENTS FOR IMPLEMENTATION OF REMEDIAL ACTIONS

Implementation of erosion control and stormwater management measures on the Site during remediation will reduce the potential for contaminants to migrate off the Site.

8.0 MONITORING

The lack of fish and wildlife habitat and lack of evidence of a contaminant pathway in the vicinity of the Site indicate that monitoring of fish and wildlife habitats is not required. CRA is recommending that during any active remedial measures that erosion control measures, stormwater management measures and treatment system operations be monitored in accordance with accepted practices and permit conditions.

9.0 SUMMARY AND CONCLUSIONS

The objectives of the FWIA were to identify fish and wildlife resources that presently exist and that existed before contamination introduction on a site and to provide information for the design of a remedial investigation. Upon review of the Buffalo China Site, CRA has concluded no impact to fish and wildlife on or near the Site due to dense urbanization and lack of natural habitats surrounding the Site. However, to be conservative, CRA completed the additional relevant steps of the FWIA. Based on this analysis, CRA concludes that the planned remedial actions will not harm fish or wildlife and will result in the removal or isolation of Site-related contaminants, thus preventing future off-Site migration of Site-related contaminants and impacts to natural resources.

10.0 REFERENCES

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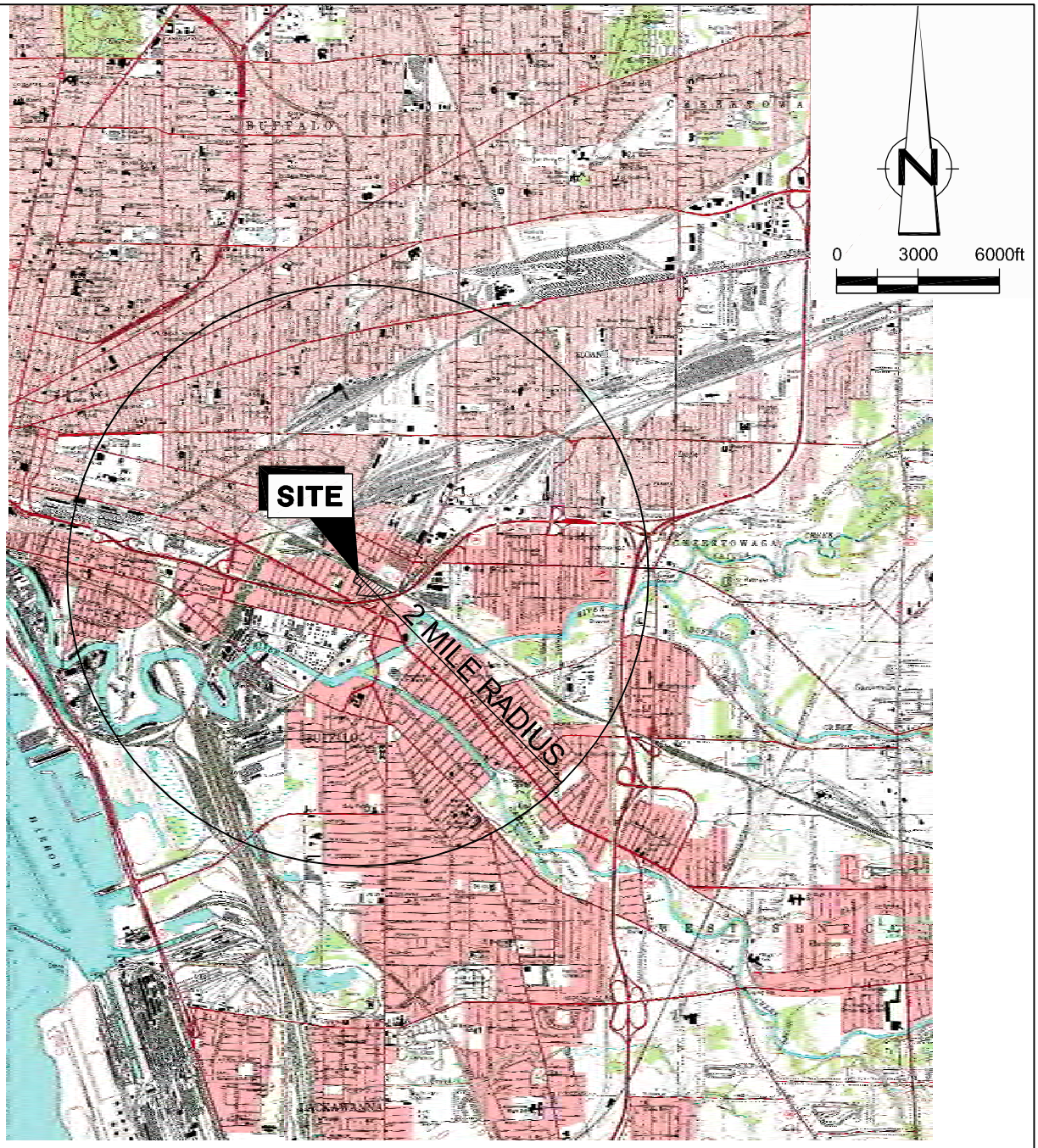
FIGURES



REFERENCE:

UNITED STATES GEOLOGIC SURVEY BUFFALO NE, BUFFALO SE QUADRANGLE, NY
TOPOGRAPHIC, 7.5 MINUTES SERIES 1965

figure 1

SITE LOCATION MAP
BROWNFIELD CLEANUP AGREEMENT SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
Buffalo, New York

0 100 300ft

LEGEND

RES	RESIDENTIAL	127.55 ACRES
I/C	INDUSTRIAL/COMMERCIAL	233.59 ACRES
ML	MOWED LAWN	57.60 ACRES
MR	MOWED ROADSIDE	2.87 ACRES
JY	JUNKYARD	15.33 ACRES
VL	URBAN VACANT LAND	37.10 ACRES
UF	URBAN FOREST UPLAND	5.35 ACRES
OU	OPEN UPLAND	2.52 ACRES
QUY	QUARRY	2.22 ACRES
BR	BUFFALO RIVER	2.92 ACRES
SCH	SCHOOL	.85 ACRES
	PAVED ROAD	
	RAILROAD	

SCALE VERIFICATION: THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

No	Revision	Date	Initial

FORMER BUFFALO CHINA SITE

CITY OF BUFFALO

SURROUNDING COVER TYPE
NEW YORK STATE BROWNFIELD CLEANUP PROGRAM INVESTIGATION SITE C915209

CONESTOGA ROVERS & ASSOCIATES, Inc.

Source Reference:			Date: JUNE 2008
Project Manager:	Reviewed By:	Designed By:	Drawn By: WJA
Scale: 1" = 300'	Project No: 37191-00	Report No: 003	Drawing No: 2

37191-00(003)GN-BU002 JUL 08/2008

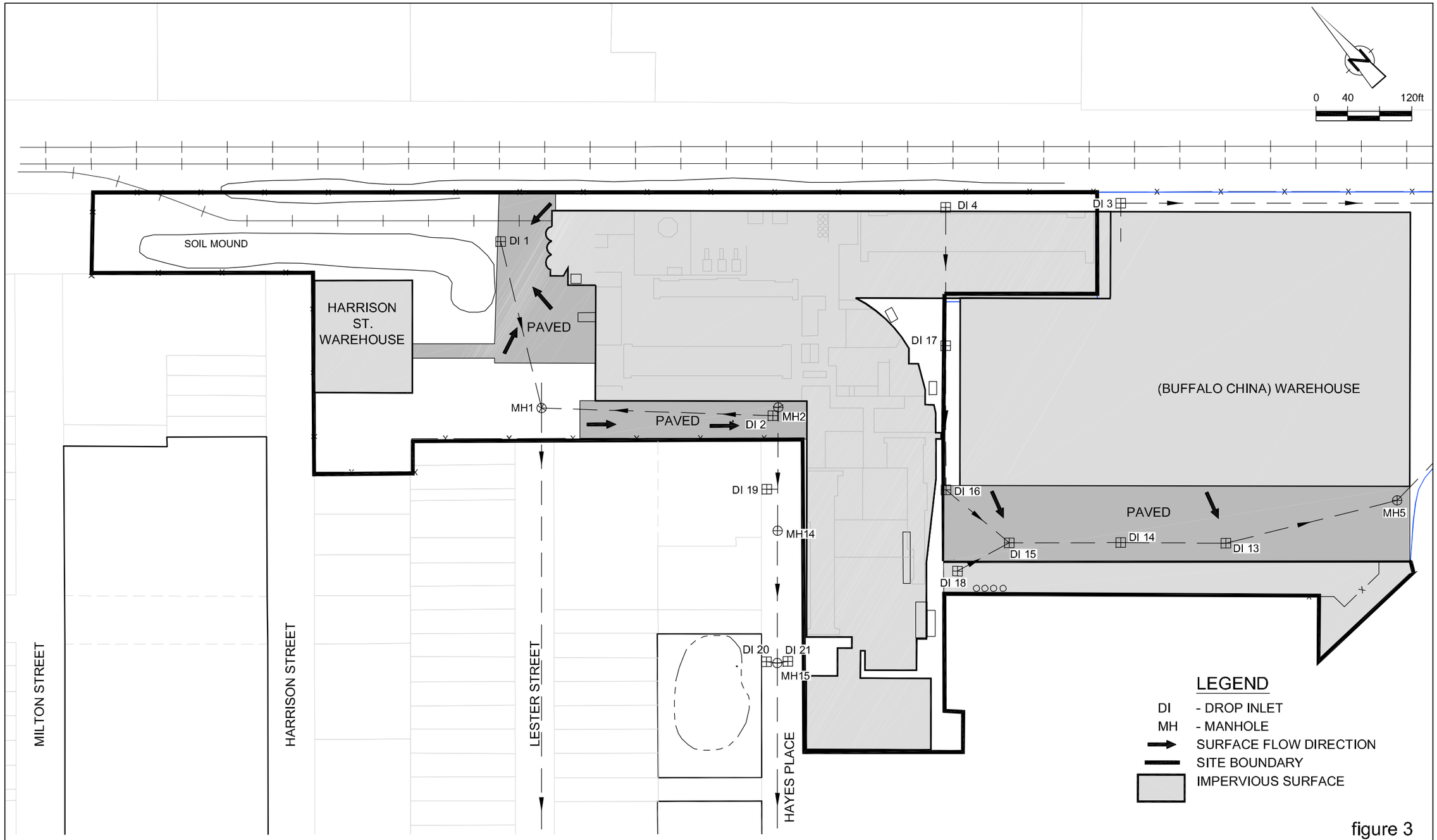


figure 3

*NOTE: STORM SEWERS ON EAST SIDE FLOW EAST TO BAILEY AVE. THEN SOUTH TO SENECA STREET. STORM SEWERS ON THE WEST SIDE FLOW SOUTH TO SENECA STREET. FROM THERE THE LINE UNDER SENECA STREET FLOWS WEST TO BSA. OVERFLOW DISCHARGES TO THE HAMBURG DRAIN.

SITE DRAINAGE
BROWNFIELD CLEANUP AGREEMENT SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
Buffalo, New York

TABLES

TABLE 1

HABITAT COVER TYPES WITHIN A HALF-MILE RADIUS OF THE SITE
BROWNFIELD CLEANUP SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Habitat Type	*Acres*	*Percent*	*Description*
Industry/Commercial	233.59	47.9%	Ruderal areas, buildings, parking lots
Residential	127.55	26.1%	Homes, small commercial establishments
Mowed Lawn	57.6	11.8%	Cool weather grasses, ornamentals
Urban Vacant Lot	37.1	7.6%	Upland- ruderal species
Junkyard	15.33	3.1%	Upland- disturbed areas
Urban Forested Upland	5.35	1.1%	Mainly invasive, short-lived species
Buffalo River	2.92	0.6%	North bank, man-made structures
Mowed Roadside	2.87	0.6%	Cool weather grasses, weeds
Open Upland	2.52	0.5%	Ruderal species
Quarry	2.22	0.5%	Active surface mine
School	0.85	0.2%	Buildings, playground
Wetlands	0.1	0.02%	Small portion of Seneca Bluffs
Total Acres [1]	488	100.0%	

Note:
[1] Based on a 1/2-mile radius.

TABLE 2

PARKS WITHIN A TWO-MILE RADIUS OF THE SITE
BROWNFIELD CLEANUP SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Park	*Type*
Tifft Nature Preserve	Public/Conservation
Seneca Bluffs	Fish and Wildlife Project
Alltift Site	Fish and Wildlife Project
Buffalo Color Peninsula	Fish and Wildlife Project
Smith Street Pocket Park	Fish and Wildlife Project
Bailey Avenue Pocket Park	Recreation
Houghton Park	Recreation
Heacock Park	Recreation
Taylor Park	Recreation
Dingens Park	Recreation
Hennepin Park	Recreation
Sperry Park	Recreation
Cazenovia Park	Recreation
Willert Park	Recreation
Hillery Playground	Recreation
Taylor Playground	Recreation
Bedmond Playground	Recreation
Father Conway Playground	Recreation

TABLE 3

APPLICABLE FISH AND WILDLIFE CRITERIA - GROUNDWATER AND SURFACE SOIL
BROWNFIELD CLEANUP SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Parameters	*Units*	*Groundwater*		*Surface Soil (only lead was analyzed, therefore, only its ESV is given)*	
		ESV [1]	***Source*** [2]	***ESV*** [1]	***Source*** [2]
Volatile Organic Compounds					
1,1,2-Trichloroethane	ug/L	500	EPA Region V	-	-
1,2,4-Trichlorobenzene	ug/L	30	EPA Region V	-	-
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	170	EPA Region V	-	-
cis-1,2-Dichloroethene	ug/L	5500	MDEQ	-	-
Methyl Tert Butyl Ether	ug/L			-	-
Tetrachloroethene	ug/L	45	EPA Region V	-	-
trans-1,2-Dichloroethene	ug/L	14000	MDEQ	-	-
Trichloroethene	ug/L	47	EPA Region V	-	-
Vinyl chloride	ug/L	930	EPA Region V	-	-
Semi-volatile Organic Compounds					
2-Methylnaphthalene	ug/L	72.16	FCV	-	-
Benzo(a)anthracene	ug/L	2.23	FCV	-	-
Benzo(b)fluoranthene	ug/L	0.68	FCV	-	-
bis(2-Ethylhexyl)phthalate	ug/L	0.60	NY	-	-
Caprolactam	ug/L			-	-
Diethyl phthalate	ug/L	110	EPA Region V	-	-
Fluoranthene	ug/L	7.11	FCV	-	-
Phenanthrene	ug/L	19.13	FCV	-	-
Phenol	ug/L	180	EPA Region V	-	-
Pyrene	ug/L	10.11	FCV	-	-
Metals					
Aluminum	ug/L	87	USEPA NRWQC	-	-
Antimony	ug/L	1100	MDEQ	-	-
Arsenic	ug/L	150	NY	-	-
Barium	ug/L	220	EPA Region V	-	-
Calcium	ug/L			-	-
Chromium Total	ug/L	313.15	NY [3]	-	-
Cobalt	ug/L	5.00	NY	-	-
Copper	ug/L	51.60	NY [3]	-	-
Iron	ug/L	1000	USEPA NRWQC	-	-
Lead	ug/L	7.43	NY [3]	11	Eco-SSL
Magnesium	ug/L			-	-
Manganese	ug/L	9051.6	MDEQ	-	-
Mercury	ug/L	0.77	NY	-	-
Nickel	ug/L	52	USEPA NRWQC	-	-
Potassium	ug/L			-	-
Selenium	ug/L	4.60	NY	-	-
Silver	ug/L	0.10	NY	-	-
Sodium	ug/L			-	-

TABLE 3

APPLICABLE FISH AND WILDLIFE CRITERIA - GROUNDWATER AND SURFACE SOIL
BROWNFIELD CLEANUP SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Parameters	*Units*	*Groundwater*		*Surface Soil (only lead was analyzed, therefore, only its ESV is given)*	
		ESV [1]	***Source*** [2]	***ESV*** [1]	***Source*** [2]
Thallium	ug/L	8.00	NY	-	-
Vanadium	ug/L	14.00	NY	-	-
Zinc	ug/L	368.71	NY [3]	-	-
Metals (Dissolved)					
Antimony (Dissolved)	ug/L	1100	MDEQ	-	-
Barium (Dissolved)	ug/L	220	EPA Region V	-	-
Calcium (Dissolved)	ug/L			-	-
Cobalt (Dissolved)	ug/L	5.00	NY	-	-
Iron (Dissolved)	ug/L	1000	0.00	-	-
Magnesium (Dissolved)	ug/L			-	-
Manganese (Dissolved)	ug/L	1049.66	MDEQ	-	-
Mercury (Dissolved)	ug/L	0.77	NY	-	-
Nickel (Dissolved)	ug/L	470	USEPA NRWQC	-	-
Potassium (Dissolved)	ug/L			-	-
Sodium (Dissolved)	ug/L			-	-
Vanadium (Dissolved)	ug/L	14	NY	-	-
Pesticides					
alpha-BHC	ug/L	12.4	EPA Region V	-	-
Endosulfan sulfate	ug/L	2.22	EPA Region V	-	-
Endrin	ug/L	0.04	EPA Region V	-	-
Wet Chemistry					
Cyanide (total)	ug/L	5.2	NY, free	-	-

Notes:

(1) Groundwater ESVs for total metals pertain to dissolved concentrations.

(2) Sources:

MDEQ: MDEQ. 2000. Rule 57 Water Quality Values. Michigan Department of Environmental Quality. Criterion accessible from here: www.michigan.gov/deq /1,1607,7-135-3313_3686_3728-11383--CI,00.html.

NY: Part 703: Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations, 2008.

EPA Region V: USEPA Region V, 2003. Screening level benchmarks used in ecological risk assessments.

USEPA: USEPA, 2006. National recommended water quality criteria, Continuous Chronic Concentration. United States Environmental Protection Agency, Office of Water, Washington, DC. EPA-4304T.

FCV: Final Chronic Value, USEPA. 2003. Procedures for the derivation of equilibrium partitioning sediment benchmarks (ESBs) for the protection of benthic organisms: PAH mixtures. EPA-600-R-02-013.

Eco-SSL: USEPA, 2005. Ecological Soil Screening Levels for Lead. USEPA Office of Emergency and Remedial Response. March 2005.

(3) ESV calculated using a site-specific water hardness of 581 ppm.

TABLE 4

CONTAMINANTS OF CONCERN IN GROUNDWATER AND SURFACE SOIL
BROWNFIELD CLEANUP SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Parameters	*Units*	*FOD*	*mean detected*	*max detected*	*ESV*	*Source* [1]	*mean SQ*	*max SQ*
Groundwater:								
Volatile Organic Compounds								
1,1,2-Trichloroethane	ug/L	5%	9800	9800	500	EPA Region V	19.60	19.60
cis-1,2-Dichloroethene	ug/L	77%	47789	240000	5500	MDEQ	8.69	43.64
Tetrachloroethene	ug/L	14%	454.3	710	45	EPA Region V	10.10	15.78
Trichloroethene	ug/L	77%	141475	600000	47	EPA Region V	3010.10	12765.96
Semi-volatile Organic Compounds								
Benzo(b)fluoranthene	ug/L	17%	0.81	0.81	0.68	FCV	1.20	1.20
bis(2-Ethylhexyl)phthalate	ug/L	50%	1.97	2.4	0.60	NY	3.28	4.00
Caprolactam	ug/L	50%	610	1200				
Surface Soil:								
Metals								
Lead	mg/kg	100%	608.28	2090	11	Eco-SSL	55.30	190.00

Notes:

(1) Sources:

MDEQ: MDEQ. 2000. Rule 57 Water Quality Values. Michigan Department of Environmental Quality. Criterion accessible from here: www.michigan.gov/deq /1,1607,7-135-3313_3686_3728-11383--CI,00.html.

NY: Part 703: Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations, 2008.

Region 5: USEPA Region V, 2003. Screening level benchmarks used in ecological risk assessments.

FCV: Final Chronic Value, USEPA. 2003. Procedures for the derivation of equilibrium partitioning sediment benchmarks (ESBs) for the protection of benthic organisms: PAH mixtures. EPA-600-R-02-013.

Eco-SSL: USEPA, 2005. Ecological Soil Screening Levels for Lead. USEPA Office of Emergency and Remedial Response. March 2005

APPENDIX A

COLOR PHOTOGRAPHS

Photo 1. Looking at the north side of the Site, with railroad tracks obscured to the left.

Photo 2. Looking south at the Site.

Photo 3. Looking at industrial properties north of the Site.

Photo 4. Looking at residential areas south of the Site.

Photo 5. Looking at a vacant urban lot south of the Site.

Photo 6. Looking at Rt 190 south of the Site.

APPENDIX B

SITE GROUNDWATER AND SURFICIAL SOIL DATA

TABLE B.1

ANALYTICAL RESULTS SUMMARY - SURFACE SOIL
BROWNFIELD CLEANUP SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

		Location ID:	NE Harrison St WH	NE Harrison St WH	S Harrison St WH	S Harrison St WH	Soil Mound	Soil Mound
		Sample Date:	5/7/2008	5/7/2008	5/7/2008	5/7/2008	5/7/2008	5/7/2008
Parameter	Units	Depth:	0 - 0.17 ft	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft	0 - 0.17 ft	0.15 - 0.33 ft
Metals								
Lead	mg/kg		15.2	33.7	738 J	742 J	30.8	2090 J

Notes:

U - Not present at the associated value.

J - Estimated concentration.

TABLE B.2

SCREENING - SURFACE SOIL
BROWNFIELD CLEANUP SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Parameter	Units	FOD	mean [1]	max [1]	ESV	source [2]	mean SQ	max SQ
Metals								
Lead	mg/kg	100%	608.28	2090	11	Eco-SSL	55.30	190

Notes:

(1) Mean is the average of all detected concentrations. Max is the maximum detected concentration.

(2) Source:

Eco-SSL: USEPA, 2005. Ecological Soil Screening Levels for Lead. USEPA Office of Emergency and Remedial Response. March 2005.

TABLE B.3

ANALYTICAL RESULTS SUMMARY - GROUNDWATER
BROWNFIELD CLEANUP SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Location ID:		*MW-4*	*MW-4*	*MW-4*	*MW-4*	*MW-5*	*MW-5*	*MW-5*	*MW-5*	*MW-6*	*MW-6*	*MW-7*	*MW-8*	*MW-8*	*MW-8*	*MW-9*	*MW-9*	*MW-9*	*MW-12*	*MW-12*	*MW-12*	*MW-12*
Sample Date:		*8/21/2007*	*8/21/2007*	*5/28/2008*	*5/28/2008*	*5/11/2006*	*5/11/2006*	*8/21/2007*	*5/28/2008*	*5/11/2006*	*5/28/2008*	*5/11/2006*	*5/11/2006*	*8/21/2007*	*5/28/2008*	*5/11/2006*	*8/21/2007*	*5/28/2008*	*8/21/2007*	*8/21/2007*	*5/28/2008*	*5/28/2008*
			Duplicate		*Duplicate*		*Duplicate*													*Duplicate*		*Duplicate*
Parameters	*Units*																					
Volatile Organic Compounds																						
1,1,2-Trichloroethane	ug/L	150 U	100 U	71 U	71 U	30000 U	30000 U	9800 J	12000 U	1200 U	59 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	15000 U	1200 U	2500 U	2500 U
1,2,4-Trichlorobenzene	ug/L	150 U	100 U	71 U	71 U	30000 U	30000 U	12000 U	12000 U	1200 U	15 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	15000 U	1200 U	2500 U	2500 U
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	ug/L	150 U	100 U	71 U	71 U	30000 U	30000 U	12000 U	12000 U	1200 U	59 U	5.0 U	3.0 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	15000 U	1200 U	2500 U	2500 U
cis-1,2-Dichloroethene	ug/L	2200 J	1100 J	1200	1300	130000	140000	240000	150000	24000	1600	5.0 U	8.5	1.0 J	5.0 U	5.0 U	5.0 U	5.0 U	65000 J	25000 J	15000	16000
Methyl Tert Butyl Ether	ug/L	150 U	100 U	71 U	71 U	30000 U	30000 U	12000 U	12000 U	1200 U	59 U	1.1 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	15000 U	1200 U	2500 U	2500 U
Tetrachloroethene	ug/L	150 U	100 U	71 U	71 U	30000 U	30000 U	12000 U	12000 U	1200 U	13 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	15000 U	1200 U	640 J	710 J
trans-1,2-Dichloroethene	ug/L	87 J	34 J	27 J	29 J	30000 U	30000 U	12000 U	12000 U	1200 U	11 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	15000 U	1200 U	2500 U	2500 U
Trichloroethene	ug/L	2000 J	1000 J	2200	2200	540000	600000	550000	310000	12000	630	5.0 U	31	3.2 J	5.0 U	5.0 U	5.0 U	5.0 U	190000 J	26000 J	81000	88000
Vinyl chloride	ug/L	31 J	100 U	17 J	71 U	30000 U	30000 U	12000 U	12000 U	570 J	24 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	15000 U	760 J	760 J	910 J
Semi-volatile Organic Compounds																						
2-Methylnaphthalene	ug/L	2.1 U	2.1 U	1.9 U	1.9 U	--	--	--	--	--	--	--	--	--	--	--	0.62 J	1.9 U	--	--	--	--
Benzo(a)anthracene	ug/L	2.1 U	0.84 J	1.9 U	1.9 U	--	--	--	--	--	--	--	--	--	--	--	2.0 U	1.9 U	--	--	--	--
Benzo(b)fluoranthene	ug/L	2.1 U	0.81 J	1.9 U	1.9 U	--	--	--	--	--	--	--	--	--	--	--	2.0 U	1.9 U	--	--	--	--
bis(2-Ethylhexyl)phthalate	ug/L	2.1 J	1.4 J	9.4 U	9.5 U	--	--	--	--	--	--	--	--	--	--	--	2.4 J	9.5 U	--	--	--	--
Caprolactam	ug/L	260	370	5.6 U	5.7 U	--	--	--	--	--	--	--	--	--	--	--	1200	5.7 U	--	--	--	--
Diethyl phthalate	ug/L	11 U	3.0 J	9.4 U	9.5 U	--	--	--	--	--	--	--	--	--	--	--	9.9 U	9.5 U	--	--	--	--
Fluoranthene	ug/L	2.1 U	1.5 J	1.9 U	1.9 U	--	--	--	--	--	--	--	--	--	--	--	2.0 U	1.9 U	--	--	--	--
Phenanthrene	ug/L	0.76 J	1.1 J	1.9 U	1.9 U	--	--	--	--	--	--	--	--	--	--	--	2.0 U	1.9 U	--	--	--	--
Phenol	ug/L	2.1 U	0.59 J	1.9 U	1.9 U	--	--	--	--	--	--	--	--	--	--	--	0.72 J	1.9 U	--	--	--	--
Pyrene	ug/L	0.72 J	1.2 J	1.9 U	1.9 U	--	--	--	--	--	--	--	--	--	--	--	2.0 U	1.9 U	--	--	--	--
Metals																						
Aluminum	ug/L	5110 J	4190 J	116 J	102 J	--	--	--	--	--	--	--	--	--	--	--	8250 J	200 U	--	--	--	--
Antimony	ug/L	3.9 J	5.0 J	10.0 U	10.0 U	--	--	--	--	--	--	--	--	--	--	--	7.5 J	10.0 U	--	--	--	--
Arsenic	ug/L	4.7 J	4.1 J	10.0 U	10.0 U	--	--	--	--	--	--	--	--	--	--	--	9.4 J	10.0 U	--	--	--	--
Barium	ug/L	110 J	86.6 J	39.5 J	38.2 J	--	--	--	--	--	--	--	--	--	--	--	90.2 J	29.1 J	--	--	--	--
Calcium	ug/L	172000	165000	136000	140000	--	--	--	--	--	--	--	--	--	--	--	301000	217000	--	--	--	--
Chromium Total	ug/L	13.6	10.2	5.0 U	5.0 U	--	--	--	--	--	--	--	--	--	--	--	14.5	5.0 U	--	--	--	--
Cobalt	ug/L	4.4 J	3.3 J	1.1 J	0.93 J	--	--	--	--	--	--	--	--	--	--	--	6.5 J	3.4 J	--	--	--	--
Copper	ug/L	13.8 J	10.2 J	25.0 U	25.0 U	--	--	--	--	--	--	--	--	--	--	--	24.6 J	25.0 U	--	--	--	--
Iron	ug/L	6350	4850	653 J	504 J	--	--	--	--	--	--	--	--	--	--	--	14300	1620 J	--	--	--	--
Lead	ug/L	56.8 J	30.0 J	2.7 J	2.8 J	--	--	13.8	3.2	--	3.0 U	--	46	33.6	3.0 U	--	28.7	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Magnesium	ug/L	46300	44000	37400	38100	--	--	--	--	--	--	--	--	--	--	--	58500	36400	--	--	--	--
Manganese	ug/L	915	860	858	864	--	--	--	--	--	--	--	--	--	--	--	472	317	--	--	--	--
Mercury	ug/L	0.097 J	0.20 U	0.20 U	0.20 U	--	--	--	--	--	--	--	--	--	--	--	0.088 J	0.20 U	--	--	--	--
Nickel	ug/L	10.7 J	8.1 J	2.2 J	2.0 J	--	--	--	--	--	--	--	--	--	--	--	18.5 J	5.4 J	--	--	--	--
Potassium	ug/L	2470 J	2260 J	675 J	711 J	--	--	--	--	--	--	--	--	--	--	--	10600	7090	--	--	--	--
Selenium	ug/L	2.6 J	5.0 U	5.0 U	5.0 U	--	--	--	--	--	--	--	--	--	--	--	5.0 U	5.0 U	--	--	--	--
Silver	ug/L	2.1 J	1.2 J	5.0 U	5.0 U	--	--	--	--	--	--	--	--	--	--	--	1.3 J	5.0 U	--	--	--	--
Sodium	ug/L	168000	173000	133000	145000	--	--	--	--	--	--	--	--	--	--	--	44700	32700	--	--	--	--
Thallium	ug/L	3.2 J	5.0 J	10.0 U	10.0 U	--	--	--	--	--	--	--	--	--	--	--	10.0 U	3.7 J	--	--	--	--
Vanadium	ug/L	18.8 J	21.6 J	1.3 J	50.0 U	--	--	--	--	--	--	--	--	--	--	--	17.9 J	1.1 J	--	--	--	--
Zinc	ug/L	67.4	40.9 U	20.0 U	20.0 U	--	--	--	--	--	--	--	--	--	--	--	93.3	20.0 U	--	--	--	--
Metals (Dissolved)																						
Aluminum (Dissolved)	ug/L	200 U	200 U	--	--	--	--	--	--	--	--	--	--	--	--	--	200 U	--	--	--	--	--
Antimony (Dissolved)	ug/L	10.0 U	10.0 U	10.0 U	10.0 U	--	--	--	--	--	--	--	--	--	--	--	3.3 J	10.0 U	--	--	--	--
Arsenic (Dissolved)	ug/L	10 U	10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	10 U	--	--	--	--	--
Barium (Dissolved)	ug/L	40.4 J	43.1 J	34.5 J	33.4 J	--	--	--	--	--	--	--	--	--	--	--	35.8 J	28.3 J	--	--	--	--
Calcium (Dissolved)	ug/L	135000	144000	134000	133000	--	--	--	--	--	--	--	--	--	--	--	249000	224000	--	--	--	--
Chromium Total (Dissolved)	ug/L	5 U	5 U	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	--	--	--	--	--
Cobalt (Dissolved)	ug/L	50.0 U	50.0 U	1.2 J	0.87 J	--	--	--	--	--	--	--	--	--	--	--	50.0 U	3.2 J	--	--	--	--
Copper (Dissolved)	ug/L	25 U	25 U	--	--	--	--	--	--	--	--	--	--	--	--	--	25 U	--	--	--	--	--
Iron (Dissolved)	ug/L	100 U	100 U	218	207	--	--	--	--	--	--	--	--	--	--	--	100 U	620	--	--	--	--
Lead (Dissolved)	ug/L	3.0 U	3.0 U	3.0 U	3.0 U	--	--	3.0 U	3.0 U	--	3.0 U	--	3.0 U	3.0 U	3.0 U	--	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Magnesium (Dissolved)	ug/L	36000	38300	36700	36600	--	--	--	--	--	--	--	--	--	--	--	44700	38000	--	--	--	--
Manganese (Dissolved)	ug/L	714	761	799	786	--	--	--	--	--	--	--	--	--	--	--	221	296	--	--	--	--
Mercury (Dissolved)	ug/L	0.062 J	0.20 U	0.20 U	0.20 U	--	--	--	--	--	--	--	--	--	--	--	0.067 J	0.20 U	--	--	--	--
Nickel (Dissolved)	ug/L	1.4 J	1.2 J	2.1 J	1.9 J	--	--	--	--	--	--	--	--	--	--	--	4.5 J	5.6 J	--	--	--	--
Potassium (Dissolved)	ug/L	1290 J	1390 J	689 J	687 J	--	--	--	--	--	--	--	--	--	--	--	7610	7150	--	--	--	--
Selenium (Dissolved)	ug/L	5 U	5U	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	--	--	--	--	--
Silver (Dissolved)	ug/L	5 U	5U	--	--	--	--	--	--	--	--	--	--	--	--	--	5 U	--	--	--	--	--
Sodium (Dissolved)	ug/L	193000	192000	138000	144000	--	--	--	--	--	--	--	--	--	--	--	43200	34300	--	--	--	--
Thallium (Dissolved)	ug/L	10 U	10 U	--	--	--	--	--	--	--	--	--	--	--	--	--	10 U	--	--	--	--	--
Vanadium (Dissolved)	ug/L	11.8 J	10.7 J	1.6 J	2.2 J	--	--	--	--	--	--	--	--	--	--	--	1.3 J	2.6 J	--	--	--	--
Zinc (Dissolved)	ug/L	20 U	20 U	--	--	--	--	--	--	--	--	--	--	--	--	--	20 U	--	--	--	--	--
Pesticides																						
alpha-BHC	ug/L	0.021 J	0.051 U	0.047 U	0.048 U	--	--	--	--	--	--	--	--	--	--	--	0.051 U	0.047 U	--	--	--	--
Endosulfan sulfate	ug/L	0.051 U	0.051 U	0.047 U	0.048 U	--	--	--	--	--	--	--	--	--	--	--	0.024 J	0.047 U	--	--	--	--
Endrin	ug/L	0.051 U	0.051 U	0.047 U	0.048 U	--	--	--	--	--	--	--	--	--	--	--	0.011 J	0.047 U	--	--	--	--
Wet Chemistry																						
Cyanide (total)	ug/L	10.0 U	6.4 J	3.4 J	2.9 J	--	--	--	--	--	--	--	--	--	--	--	2.4 J	2.6 J	--	--	--	--

Notes:

U - Not present at the associated value.
J - Estimated concentration.
B - Compound detected in an associated blank.
D - Reported from a diluted analysis.
E - Exceeds the linear range of the instrument.
N - Tentatively identified.
NC - No criteria.

TABLE B.4

SCREENING - GROUNDWATER
BROWNFIELD CLEANUP SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Parameters	*Units*	*FOD*	*mean* [1]	*max* [1]	*ESV*	*source* [2]	*mean SQ*	*max SQ*	*COPC?*
Volatile Organic Compounds									
1,1,2-Trichloroethane	ug/L	5%	9800.0	15000	500	EPA Region V	19.60	30.00	Yes
1,2,4-Trichlorobenzene	ug/L	5%	15.0	15	30	EPA Region V	0.50	0.50	No
4-Methyl-2-Pentanone	ug/L	5%	3.0	3	170	EPA Region V	0.02	0.02	No
cis-1,2-Dichloroethene	ug/L	77%	47788.9	2.40E+05	5500	MDEQ	8.69	43.64	Yes
Methyl Tert Butyl Ether	ug/L	5%	1.1	1.1	6500	MDEQ	0.00	0.00	No
Tetrachloroethene	ug/L	14%	454.3	710	45	EPA Region V	10.10	15.78	Yes
trans-1,2-Dichloroethene	ug/L	23%	37.6	87	14000	MDEQ	0.00	0.01	No
Trichloroethene	ug/L	77%	141474.7	6.00E+05	47	EPA Region V	3010.10	12765.96	Yes
Vinyl chloride	ug/L	32%	438.9	910	930	EPA Region V	0.47	0.98	No
Semi-volatile Organic Compounds									
2-Methylnaphthalene	ug/L	17%	0.6	0.62	72.16	FCV	0.01	0.01	No
Benzo(a)anthracene	ug/L	17%	0.8	0.84	2.23	FCV	0.38	0.38	No
Benzo(b)fluoranthene	ug/L	17%	0.8	0.81	0.68	FCV	1.20	1.20	Yes
bis(2-Ethylhexyl)phthalate	ug/L	50%	2.0	2.4	0.60	NY	3.28	4.00	Yes
Caprolactam	ug/L	50%	610.0	1200	-	-	-	-	Yes
Diethyl phthalate	ug/L	17%	3.0	3	110	EPA Region V	0.03	0.03	No
Fluoranthene	ug/L	17%	1.5	1.5	7.11	FCV	0.21	0.21	No
Phenanthrene	ug/L	33%	0.9	1.1	19.13	FCV	0.05	0.06	No
Phenol	ug/L	33%	0.7	0.72	180	EPA Region V	0.00	0.00	No
Pyrene	ug/L	33%	1.0	1.2	10.11	FCV	0.09	0.12	No
Metals									
Aluminum	ug/L	83%	3553.6	8250	87	USEPA NRWQC	40.85	94.83	No
Antimony	ug/L	50%	5.5	7.5	1100	MDEQ	0.00	0.01	No
Arsenic	ug/L	50%	6.1	9.4	150	NY	0.04	0.06	No
Barium	ug/L	100%	65.6	110	220	EPA Region V	0.30	0.50	No
Calcium	ug/L	100%	188500.0	301000	-	-	-	-	Nutrient
Chromium Total	ug/L	50%	12.8	14.5	313.15	NY [5]	0.04	0.05	No
Cobalt	ug/L	100%	3.3	6.5	5.00	NY	0.65	1.30	No [3]
Copper	ug/L	50%	16.2	24.6	51.60	NY [5]	0.31	0.48	No
Iron	ug/L	100%	4712.8	14300	1000	USEPA NRWQC	4.71	14.30	No
Lead	ug/L	53%	24.2	56.8	7.43	NY [5]	3.25	7.64	No [3]
Magnesium	ug/L	100%	43450.0	58500	-	-	-	-	Nutrient
Manganese	ug/L	100%	714.3	915	9051.6	MDEQ	0.08	0.10	No
Mercury	ug/L	33%	0.1	0.097	0.77	NY	0.12	0.13	No
Nickel	ug/L	100%	7.8	18.5	52	USEPA NRWQC	0.15	0.36	No
Potassium	ug/L	100%	3967.7	10600	-	-	-	-	Nutrient
Selenium	ug/L	17%	2.6	2.6	4.60	NY	0.57	0.57	No
Silver	ug/L	50%	1.5	2.1	0.10	NY	15.33	21.00	No [3]
Sodium	ug/L	100%	116066.7	173000	-	-	-	-	Nutrient
Thallium	ug/L	50%	4.0	5	8.00	NY	0.50	0.63	No
Vanadium	ug/L	83%	12.1	21.6	14.00	NY	0.87	1.54	No [3]
Zinc	ug/L	33%	80.4	93.3	368.71	NY [5]	0.22	0.25	No
Metals (Dissolved)									
Aluminum (Dissolved)	ug/L	0%	-	-	-	-	-	-	No
Antimony (Dissolved)	ug/L	17%	3.3	3.3	1100	MDEQ	0.00	0.00	No
Arsenic (Dissolved)	ug/L	0%	-	-	-	-	-	-	No
Barium (Dissolved)	ug/L	100%	35.9	43.1	220	EPA Region V	0.16	0.20	No
Calcium (Dissolved)	ug/L	100%	169833.3	249000	-	-	-	-	Nutrient
Chromium Total (Dissolved)	ug/L	0%	-	-	-	-	-	-	No
Cobalt (Dissolved)	ug/L	50%	1.8	3.2	5.00	NY	0.35	0.64	No
Copper (Dissolved)	ug/L	0%	-	-	-	-	-	-	No
Iron (Dissolved)	ug/L	50%	348.3	620	1000	0.00	0.35	0.62	No
Lead (Dissolved)	ug/L	0%	-	-	-	-	-	-	No
Magnesium (Dissolved)	ug/L	100%	38383.3	44700	-	-	-	-	Nutrient
Manganese (Dissolved)	ug/L	100%	596.2	799	1049.66	MDEQ	0.57	0.76	No
Mercury (Dissolved)	ug/L	33%	0.1	0.067	0.77	NY	0.08	0.09	No
Nickel (Dissolved)	ug/L	100%	2.8	5.6	470	USEPA NRWQC	0.01	0.01	No
Potassium (Dissolved)	ug/L	100%	3136.0	7610	-	-	-	-	Nutrient
Selenium (Dissolved)	ug/L	0%	-	-	-	-	-	-	No
Silver (Dissolved)	ug/L	0%	-	-	-	-	-	-	No
Sodium (Dissolved)	ug/L	100%	124083.3	193000	-	-	-	-	Nutrient
Thallium (Dissolved)	ug/L	0%	-	-	-	-	-	-	No
Vanadium (Dissolved)	ug/L	100%	5.0	11.8	14	NY	0.36	0.84	No

TABLE B.4

SCREENING - GROUNDWATER
BROWNFIELD CLEANUP SITE INVESTIGATION
FORMER BUFFALO CHINA SITE (NO. C915209)
BUFFALO, NEW YORK

Parameters	*Units*	*FOD*	*mean* [1]	*max* [1]	*ESV*	*source* [2]	*mean SQ*	*max SQ*	*COPC?*
Zinc (Dissolved)	ug/L	0%	-	-	-	-	-	-	No
Pesticides									
alpha-BHC	ug/L	17%	0.02	0.021	12.4	EPA Region V	0.00	0.00	No
Endosulfan sulfate	ug/L	17%	0.02	0.024	2.22	EPA Region V	0.01	0.01	No
Endrin	ug/L	17%	0.01	0.011	0.04	EPA Region V	0.31	0.31	No
Wet Chemistry									
Cyanide (total)	ug/L	83%	3.5	6.4	5.2	NY, free	0.68	1.23	No [4]

Notes:

(1) Mean is the average of all detected concentrations. Max is the maximum detected concentration.

(2) Sources:

MDEQ: MDEQ. 2000. Rule 57 Water Quality Values. Michigan Department of Environmental Quality. Criterion accessible from here: www.michigan.gov/deq /1,1607,7-135-3313_3686_3728-11383--CI,00.html (Aquatic maximum value)

NY: Part 703: Surface Water and Groundwater Quality Standards and Groundwater Effluent Limitations, 2008.

Region 5: USEPA Region V, 2003. Screening level benchmarks used in ecological risk assessments.

USEPA: USEPA, 2006. National recommended water quality criteria, Continuous Chronic Concentration. United States Environmental Protection Agency, Office of Water, Washington, DC. EPA-4304T.

FCV: Final Chronic Value, USEPA. 2003. Procedures for the derivation of equilibrium partitioning sediment benchmarks (ESBs) for the protection of benthic organisms: PAH mixtures. EPA-600-R-02-013.

(3) ESVs for total metals pertain to dissolved concentrations. Although some total metals concentrations exceeded benchmarks, the dissolved concentration was less than its ESV. Decision based on latter. Dissolved forms of metals are typically more toxic than total forms.

(4) As with metals, only the dissolved form of cyanide poses significant toxicity, and is rapidly degraded or volatilized from surface water (Irwin et al. 1997). Therefore, it is not retained.

(5) ESV calculated using a site-specific water hardness of 581 ppm.

APPENDIX C

NEW YORK NATURAL HERITAGE CORRESPONDENCE

New York State Department of Environmental Conservation
Division of Fish, Wildlife & Marine Resources
New York Natural Heritage Program
625 Broadway, Albany, New York 12233-4757
Phone: (518) 402-8935 • **FAX:** (518) 402-8925
Website: www.dec.state.ny.us

Alexander B. Grannis
Commissioner

April 23, 2008

Amy Mac Causland
Conestoga Rovers
410 Eagleview Blvd. Suite 110
Exton, PA 19341

Dear Ms. Mac Causland:

In response to your recent request, we have reviewed the New York Natural Heritage Program databases with respect to an Environmental Assessment for the proposed Brownfields Remediation Project, site as indicated on the map you provided, including a 2-Mile Radius, located at 51 Hayes Place, City of Buffalo, Erie County.

Enclosed is a report of rare or state-listed animals and plants, significant natural communities, and other significant habitats, which our databases indicate occur, or may occur, on your site or in the immediate vicinity of your site. The information contained in this report is considered sensitive and should not be released to the public without permission from the New York Natural Heritage Program.
PLEASE NOTE: The Tift Farm Nature Preserve is within 2 Miles of the project site

This project location is adjacent to a designated Significant Coastal Fish and Wildlife Habitat. This habitat is part of New York State's Coastal Management Program (CMP), which is administered by the NYS Department of State (DOS). Projects which may impact the habitat are reviewed by DOS for consistency with the CMP. For more information regarding this designated habitat and applicable consistency review requirements, please contact:

Jeff Zappieri or Vance Barr - (518) 474-6000
NYS Department of State
Division of Coastal Resources and Waterfront Revitalization
41 State Street, Albany, NY 12231

The presence of rare species may result in your project requiring additional permits, permit conditions, or review. For further guidance, and for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the appropriate NYS DEC Regional Office, Division of Environmental Permits, at the enclosed address.

For most sites, comprehensive field surveys have not been conducted; the enclosed report only includes records from our databases. We cannot provide a definitive statement on the presence or absence of all rare or state-listed species or significant natural communities. This information should NOT be substituted for on-site surveys that may be required for environmental impact assessment.

Our databases are continually growing as records are added and updated. If this proposed project is still under development one year from now, we recommend that you contact us again so that we may update this response with the most current information.

Sincerely,

Tara Seoane

Tara Seoane
Information Services
NY Natural Heritage Program

cc: Reg. 9, Wildlife Mgr.
Reg. 9, Fisheries Mgr.
Peter Nye, Endangered Species Unit, Albany

Natural Heritage Report on Rare Species and Ecological Communities

NY Natural Heritage Program, NYS DEC, 625 Broadway, 5th Floor, Albany, NY
12233-4757
(518) 402-8935

~This report contains **SENSITIVE** information that should not be released to the public without permission from the NY Natural Heritage Program.
~Refer to the User's Guide for explanations of codes, ranks and fields.
~Location maps for certain species and communities may not be provided 1) if the species is vulnerable to disturbance, 2) if the location and/or extent is not precisely known, 3) if the location and/or extent is too large to display, and/or 4) if the animal is listed as Endangered or Threatened by New York State.

Natural Heritage Report on Rare Species and Ecological Communities

BIRDS

Ixobrychus exilis

Least Bittern

Office Use 10893

NY Legal Status:	Threatened	**NYS Rank:**	S3B,S1N - Vulnerable
Federal Listing:		**Global Rank:**	G5 - Demonstrably secure
Last Report:	**	**EO Rank:**	**
County:	Erie		
Town:	City Of Buffalo		
Location:	At, or in the vicinity of, the project site.		
Directions:	**		
General Quality and Habitat:	**For information on the population at this location and management considerations, please contact the NYS DEC Regional Wildlife Manager for the Region where the project is located, or the NYS DEC Endangered Species Unit at 518-402-8859.		

Podilymbus podiceps

Pied-billed Grebe

Office Use 10636

NY Legal Status:	Threatened	**NYS Rank:**	S3B,S1N - Vulnerable
Federal Listing:		**Global Rank:**	G5 - Demonstrably secure
Last Report:	**	**EO Rank:**	**
County:	Erie		
Town:	City Of Buffalo		
Location:	At, or in the vicinity of, the project site.		
Directions:	**		
General Quality and Habitat:	**For information on the population at this location and management considerations, please contact the NYS DEC Regional Wildlife Manager for the Region where the project is located, or the NYS DEC Endangered Species Unit at 518-402-8859.		

CRAYFISH and AMPHIPODS

Cambarus diogenes

Devil Crawfish

Office Use 12691

NY Legal Status: Unlisted
NYS Rank: S2 - Imperiled
Federal Listing:
Global Rank: G5 - Demonstrably secure
Last Report: 2007-07-07
EO Rank: Extant
County: Erie
Town: City Of Buffalo
Location: Tifft Farm Marsh
Directions: From downtown Buffalo and northern sections of the city, follow Route 5 (Skyway) west. Take the Tifft Street Exit. Turn left onto Tifft Street, go through the underpass, and immediately turn left. Continue to the Tifft Nature Preserve Entrance, within one half mile on the right. Park and walk on the main trail and take a left at "Nettle Rd". Take "Rabbit Run" to the viewing area from the north road. The burrows were observed just off the boardwalk over Lisa Pond adjacent to flat, wooden boards .

General Quality and Habitat: The rank is based on NatureServe's draft Proposed Generic Ranking Definitions for Animals and Plants of September 22, 2007. The crayfish appear to have persisted for over twenty years at Lisa Pond and many sightings were reported at Beth Pond in the 1980s. Additional survey work could determine a population estimate and the extent of the occurrence. While the immediate area is on protected land, the habitat appears degraded and the surrounding landscape is industrial with roads and a powerline corridor The area is a reclaimed cattail marsh and Lisa Pond is most likely man-made and appears degraded. Cattails, herbaceous plants, sedges, and shrubs were present. A deer was observed browsing in the pond perimeter and pond dwelling odonates (Plathemis lydia and Anax junius) were observed.

FISH

Moxostoma duquesnei

Black Redhorse

Office Use 11793

NY Legal Status: Special Concern
NYS Rank: S2 - Imperiled
Federal Listing:
Global Rank: G5 - Demonstrably secure
Last Report: 2003-07-01
EO Rank: Extant
County: Erie
Town: West Seneca
Location: Buffalo River Winchester
Directions: From Gardenville, go northwest on Route 354 to the intersection with Route 240. Go south on Route 240 for approximately 0.1 miles to the Buffalo River crossing. The fish were found in the river on the west side of the road.

General Quality and Habitat: The fish were observed in a moderate flowing stream with a pH of 8.1 and cobble, sand, gravel, and silt substrate. The shoreline is scrub and rip rap. The stream has 0-25 percent cover, 0-20 percent instream shelter, and no vegetation. The stream width is 100 feet. The maximum depth is 8 feet. The mean depth is 2.2 feet, based on a visual estimate.

FRESHWATER MUSSELS

Leptodea fragilis

Fragile Papershell

Office Use 9506

NY Legal Status: Unlisted
NYS Rank: S3 - Vulnerable
Federal Listing:
Global Rank: G5 - Demonstrably secure
Last Report: 1990-07-26
EO Rank: Fair or Poor
County: Erie
Town: West Seneca, Cheektowaga
Location: Buffalo River And Cayuga Creek
Directions: Mussels were found east of Buffalo in the Buffalo River and Cayuga Creek. Buffalo River: From the intersection of Clinton Street (Route 354) and Harlem Road (Route 240), go south approximately 0.1 miles to the bridge over the Buffalo River. Park on the southeast side of the bridge. The mussels were found west of the bridge in a slow moving pool with sand and gravel. Cayuga Creek: From the intersection of Clinton Street and Harlem Street, go 0.2 miles east on Clinton Street to the bridge.

General Quality and Habitat: The habitat is highly degraded. It is not likely that this species is doing well reproductively. Mussels were found in the Buffalo River and Cayuga Creek. The Buffalo River is 30-50 meters wide running over a steep cobbly riffle into a long, slow pool. The water is turbid and trash is present. There is obvious disturbance to the river banks. Associated species: Simpsonaias ambigua, Lasmigona compressa, and Potamilus alatus. Cayuga Creek is a medium-size creek that is 20-40 feet wide and 6 inches to 4 feet deep. The current is slow to moderate. Both banks are lined with hardwoods. Associated species: Potamilus alatus.

Potamilus alatus

Office Use 8281

Pink Heelsplitter

NY Legal Status: Unlisted
NYS Rank: S2S3 - Imperiled
Federal Listing:
Global Rank: G5 - Demonstrably secure
Last Report: 1987-1990
EO Rank: Fair or Poor
County: Erie
Town: West Seneca, Cheektowaga
Location: Buffalo River And Cayuga Creek
Directions: Mussels were found east of Buffalo in the Buffalo River and Cayuga Creek. Buffalo River: From the intersection of Clinton Street (Route 354) and Harlem Road (Route 240), go south approximately 0.1 miles to the bridge over the Buffalo River. Park on the southeast side of the bridge. The mussels were found west of the bridge in a slow moving pool with sand and gravel. Cayuga Creek: From the intersection of Clinton Street and Harlem Street, go 0.2 miles east on Clinton Street to the bridge.

General Quality and Habitat: The habitat is highly degraded. It is not likely that this species is doing well reproductively. Mussels were found in the Buffalo River and Cayuga Creek. The Buffalo River is 30-50 meters wide running over a steep cobbly riffle into a long, slow pool. The water is turbid and trash is present. There is obvious disturbance to the river banks. Associated species: Simpsonaias ambigua, Leptodea fragilis, and Lasmigona compressa. Cayuga Creek is a medium-size creek that is 20-40 feet wide and 6 inches to 4 feet deep. The current is slow to moderate. Both banks are lined with hardwoods. Associated species: Leptodea fragilis.

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6 Records Processed

More detailed information about many of the rare and listed animals and plants in New York, including biology, identification, habitat, conservation, and management, are available online in Natural Heritage's Conservation Guides at www.acris.nynhp.org, from NatureServe Explorer at http://www.natureserve.org/explorer, from NYSDEC at http://www.dec.ny.gov/animals/7494.html (for animals), and from USDA's Plants Database at http://plants.usda.gov/index.html (for plants).

More detailed information about many of the natural community types in New York, including identification, dominant and characteristic vegetation, distribution, conservation, and management, is available online in Natural Heritage's Conservation Guides at www.acris.nynhp.org. For descriptions of all community types, go to http://www.dec.ny.gov/animals/29384.html and click on DRAFT--Ecological Communities of New York State.

Natural Heritage Report on Rare Species and Ecological Communities

NY Natural Heritage Program, NYS DEC, 625 Broadway, 5th Floor,
Albany, NY 12233-4757
(518) 402-8935

HISTORICAL RECORDS

The following plants and animals were documented in the vicinity of the project site at one time, but have not been documented there since 1979 or earlier.
There is no recent information on these plants and animals in the vicinity of the project site and their current status there is unknown. In most cases the precise location of the plant or animal in this vicinity at the time it was last documented is also unknown and therefore location maps are generally not provided.
If appropriate habitat for these plants or animals is present in the vicinity of the project site, it is possible that they may still occur there.

Natural Heritage Report on Rare Species and Ecological Communities

BIRDS

Chlidonias niger

Black Tern

Office Use 1610

NY Legal Status: Endangered
NYS Rank: S2B - Imperiled
Federal Listing:
Global Rank: G4 - Apparently secure
Last Report: 1970s-late
EO Rank: Historical, no recent information
County: Erie
Town: City Of Buffalo
Location: Tifft Farm Marsh
Directions: The terns were observed at Tifft Farm Nature Preserve, about 3 mi south of downtown Buffalo. From Route 5 (Fuhrmann Boulevard Expressway) going south, take the Tifft Street exit, and before Tifft Street, turn left underneath Route 5 on Feeder Road. FromRoute 5 going north, take the Ohio Street exit on the Feeder Road. Proceed 0.3 mi north along Feeder Road to the parking lot on the right.
General Quality and Habitat: Nesting has not been reported since the late 1970s. The terns were observed at an extensive cattail marsh and open water complex, on a former solid waste transfer site, which is now managed as a nature preserve and environmental education center. The largest pond is directly connected to Lake Erie by a culvert under Fuhrmann Boulevard.

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1 Records Processed

More detailed information about many of the rare and listed animals and plants in New York, including biology, identification, habitat, conservation, and management, are available online in Natural Heritage's Conservation Guides at www.acris.nynhp.org, from NatureServe Explorer at http://www.natureserve.org/explorer, from NYSDEC at http://www.dec.ny.gov/animals/7494.html (for animals), and from USDA's Plants Database at http://plants.usda.gov/index.html (for plants).

USERS GUIDE TO NY NATURAL HERITAGE DATA

New York Natural Heritage Program, 625 Broadway, 5th Floor, Albany, NY 12233-4757 phone: (518) 402-8935

NATURAL HERITAGE PROGRAM: The NY Natural Heritage Program is a partnership between the NYS Department of Environmental Conservation (NYS DEC) and The Nature Conservancy. Our mission is to enable and enhance conservation of rare animals, rare plants, and significant communities. We accomplish this mission by combining thorough field inventories, scientific analyses, expert interpretation, and the most comprehensive database on New York's distinctive biodiversity to deliver the highest quality information for natural resource planning, protection, and management.

DATA SENSITIVITY: The data provided in the report are ecologically sensitive and should be treated in a sensitive manner. The report is for your in-house use and should **not** be released, distributed or incorporated in a public document without prior permission from the Natural Heritage Program.

EO RANK: A letter code for the quality of the occurrence of the rare species or significant natural community, based on population size or area, condition, and landscape context.

A-E = Extant: A=Excellent, B=Good, C=Fair, D=Poor, E=Extant but with insufficient data to assign a rank of A-D.
F = Failed to find. Did not locate species during a limited search, but habitat is still there and further field work is justified.
H = Historical. Historical occurrence without any recent field information.
X = Extirpated. Field/other data indicates element/habitat is destroyed and the element no longer exists at this location.
U = Extant/Historical status uncertain.
Blank = Not assigned.

LAST REPORT: The date that the rare species or significant natural community was last observed at this location, as documented in the Natural Heritage databases. The format is most often YYYY-MM-DD.

NY LEGAL STATUS – Animals:

Categories of Endangered and Threatened species are defined in New York State Environmental Conservation Law section 11-0535. Endangered, Threatened, and Special Concern species are listed in regulation 6NYCRR 182.5.

E - Endangered Species: any species which meet one of the following criteria:
- Any native species in imminent danger of extirpation or extinction in New York.
- Any species listed as endangered by the United States Department of the Interior, as enumerated in the Code of Federal Regulations 50 CFR 17.11.

T - Threatened Species: any species which meet one of the following criteria:
- Any native species likely to become an endangered species within the foreseeable future in NY.
- Any species listed as threatened by the U.S. Department of the Interior, as enumerated in the Code of the Federal Regulations 50 CFR 17.11.

SC - Special Concern Species: those species which are not yet recognized as endangered or threatened, but for which documented concern exists for their continued welfare in New York. Unlike the first two categories, species of special concern receive no additional legal protection under Environmental Conservation Law section 11-0535 (Endangered and Threatened Species).

P - Protected Wildlife (defined in Environmental Conservation Law section 11-0103): wild game, protected wild birds, and endangered species of wildlife.

U - Unprotected (defined in Environmental Conservation Law section 11-0103): the species may be taken at any time without limit; however a license to take may be required.

G - Game (defined in Environmental Conservation Law section 11-0103): any of a variety of big game or small game species as stated in the Environmental Conservation Law; many normally have an open season for at least part of the year, and are protected at other times.

NY LEGAL STATUS – Plants:

The following categories are defined in regulation 6NYCRR part 193.3 and apply to NYS Environmental Conservation Law section 9-1503.

E - Endangered Species: listed species are those with:
- 5 or fewer extant sites, or
- fewer than 1,000 individuals, or
- restricted to fewer than 4 U.S.G.S. 7 ½ minute topographical maps, or
- species listed as endangered by U.S. Dept. of Interior, as enumerated in Code of Federal Regulations 50 CFR 17.11.

T - Threatened: listed species are those with:
- 6 to fewer than 20 extant sites, or
- 1,000 to fewer than 3,000 individuals, or
- restricted to not less than 4 or more than 7 U.S.G.S. 7 and ½ minute topographical maps, or
- listed as threatened by U.S. Department of Interior, as enumerated in Code of Federal Regulations 50 CFR 17.11.

R - **Rare**: listed species have:
- 20 to 35 extant sites, or
- 3,000 to 5,000 individuals statewide.

V - **Exploitably vulnerable**: listed species are likely to become threatened in the near future throughout all or a significant portion of their range within the state if causal factors continue unchecked.

U - **Unprotected**; no state status.

FEDERAL STATUS (PLANTS and ANIMALS): The categories of federal status are defined by the United States Department of the Interior as part of the 1974 Endangered Species Act (see Code of Federal Regulations 50 CFR 17). The species listed under this law are enumerated in the Federal Register vol. 50, no. 188, pp. 39526 - 39527. The codes below without parentheses are those used in the Federal Register. The codes below in parentheses are created by Heritage to deal with species which have different listings in different parts of their range, and/or different listings for different subspecies or varieties.

(blank) = No Federal Endangered Species Act status.
LE = Formally listed as endangered.
LT = Formally listed as threatened.
C = Candidate for listing.
LE,LT = Formally listed as endangered in part of its range, and as threatened in the other part; or, one or more subspecies or varieties is listed as endangered, and the others are listed as threatened.
LT,PDL = Populations of the species in New York are formally listed as threatened, and proposed for delisting.

GLOBAL AND STATE RANKS (animals, plants, ecological communities and others): Each element has a global and state rank as determined by the NY Natural Heritage Program. These ranks carry no legal weight. The global rank reflects the rarity of the element throughout the world and the state rank reflects the rarity within New York State. Infraspecific taxa are also assigned a taxon rank to reflect the infraspecific taxon's rank throughout the world. ? = Indicates a question exists about the rank. Range ranks, e.g. S1S2, indicate not enough information is available to distinguish between two ranks.

GLOBAL RANK:

G1 - **Critically imperiled** globally because of extreme rarity (5 or fewer occurrences), or very few remaining acres, or miles of stream) or especially vulnerable to extinction because of some factor of its biology.

G2 - **Imperiled** globally because of rarity (6 - 20 occurrences, or few remaining acres, or miles of stream) or very vulnerable to extinction throughout its range because of other factors.

G3 – **Vulnerable**: Either rare and local throughout its range (21 to 100 occurrences), or found locally (even abundantly at some of its locations) in a restricted range (e.g. a physiographic region), or vulnerable to extinction throughout its range because of other factors.

G4 - **Apparently secure** globally, though it may be quite rare in parts of its range, especially at the periphery.

G5 - **Demonstrably secure** globally, though it may be quite rare in parts of its range, especially at the periphery.

GH - Historically known, with the expectation that it might be rediscovered.

GX - Species believed to be extinct.

NYS RANK:

S1 - **Critically imperiled**: Typically 5 or fewer occurrences, very few remaining individuals, acres, or miles of stream, or some factor of its biology making it especially vulnerable in New York State.

S2 – **Imperiled**: Typically 6 to 20 occurrences, few remaining individuals, acres, or miles of stream, or factors demonstrably making it very vulnerable in New York State.

S3 - **Vulnerable**: Typically 21 to 100 occurrences, limited acreage, or miles of stream in New York State.

S4 - Apparently secure in New York State.

S5 - Demonstrably secure in New York State.

SH - Historically known from New York State, but not seen in the past 15 years.

SX - Apparently extirpated from New York State.

SxB and SxN, where Sx is one of the codes above, are used for migratory animals, and refer to the rarity within New York State of the breeding (B)populations and the non-breeding populations (N), respectively, of the species.

TAXON (T) RANK: The T-ranks (T1 - T5) are defined the same way as the Global ranks (G1 - G5), but the T-rank refers only to the rarity of the subspecific taxon.

T1 through T5 - See Global Rank definitions above.

Q - Indicates a question exists whether or not the taxon is a good taxonomic entity.